

TOPEKA, KANSAS, THURSDAY, NOVEMBER 27, 1902.

KANSAS FARMER.

Established in 1863.

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

E. B. COWGILL......President
J. B. McAFEE.....Vice President
D. C. NELLIS....Secretary and Treasurer

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I. D. GRAHAM. Associate Editor
H. A. HEATH. Advertising Manager

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ADVERTISING RATES.

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Address all orders:

KANSAS FARMER CO.

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

The Kansas State Poultry Show will be held at the Auditorium, Topeka, January 5-10, 1903.

In answer to many inquiries received during the past few weeks, we can furnish one year's subscription to the Kansas Farmer and the Daily Kansas City Star for \$4, which is the net price of the Star to subscribers generally.

The Kansas State Agricultural College announces the continuance of the 'Farmers' Short Course." While it is desirable that as many as possible of the future farmers of Kansas take a full four years' course of instruction at the Agricultural College, it is also true that for various reasons only a small percentage of these will ever take a course. The short course is available and is of great value to such as can not take a full course and it is of untold value to these.

The twenty-seventh annual meeting of the Kansas State Historical Society will be held in the hall of the house of representatives, Topeka, December 2, 1902. None of the great winter meetings is more interesting than that of the historical society. It is the one great Kansas gathering which does not discuss it will take the general public—the votany aspect of the problem of getting on ing public—to see through the fraud and make the courts recognize its fraud. in the world. It concerns itself with and make the co what has been done and with preserving ulent character. the record of current events. An invitation is extended to the public.

Mr. F. Z. McClelland, R. F. D. 5, Topeka, brought in six shoats, three bar-

litter. They were fed skim-milk, shorts, and rape until corn was mature enough to husk, since which time they have had corn in addition to the other feeds. The six weighed 1,455 pounds and brought \$6.07½, which figure was a little above the market for that day. They were grade Poland-Chinas. They never stopped growing as long as they were permitted to live. permitted to live.

CONTROL OF TRUSTS.

The efforts of the Attorney-General of the United States, under direction of President Roosevelt, to prevent the "packing-house merger" are causing some delay in the consolidation of the great packing-houses of the country un-

der one management.
Another factor which seems to be giving the promoters of the merger some concern is the National Live stock Assoconcern is the National Live-stock Association, a delegate convention of which is soon to meet at Kansas City. The members of this association are said to own \$1,000,000,000 worth of live-stock. They apprehend that if the buyers of animals for slaughter become merged into one interest—one buyer—the prices of live stock will be less than under a system of competition.

This danger may be less real than feared but the American stockman does not like the idea of being reduced to the choice of selling to one and only one customer. It is intimated, therefore, that the coming session of the Live Stock Association may take steps to checkmate the packers' margar. to checkmate the packers' merger. Whether this shall be done by establishing a great stockmen's packing plant, by means of legislation, by arranging for more general export of stock on foot, or by offering inducement to some independent packing concern, is not stated. The power of the stockmen is conceded, and their movements will be watched, and, if possible, influenced by the shrewdest agents the merger people can

This is only one aspect of the trust problem. But whatever ought to be done in the case, and whatever efforts shall be made by executive officers, by legislators or by combined effort on prilegislators, or by combined effort on private account, it will doubtless be found that mergers or some other methods of bringing about the consolidation of industries will continue as long as there is money to be made thereby.

The best that can be done by the people is to exert salutary control through the agency of the Government, and through other means of manifesting the power of the public.

One of the devices, by which the "trusts" manage to make large profits appear small, is the over-capitalization of their properties. The "innocent purchaser" of their shares is brought into court when attempts are made to regulate "trust" charges by law, and this in-nocent purchaser shows . " he paid his good money for those shares at par or thereabout and that he can not get a fair return on his investment unless the law be declared confiscatory and, therefore, unconstitutional and void. How long this innocent purchaser's plea will be effective in court can be guessed only when it can be surmised how long and make the courts recognize its fraud-

But the innocent purchaser is often indeed innocent—the victim of shrewder men than himself. It is coming to be

his cupidity and gulability. The propohis cupidity and gulability. The proposal has, therefore, been made that Congress provide for full publicity of the exact situation of every merger, especially as to assets, capitalization, earning, and expenditures, to the end that the public, especially the innocent purchaser, may be informed. Even some official control of the relation of values owned to shares issued has been suggested.

As a precedent for such publicity and control, the case of the National banks is cited. This is a fitting example of an effectual remedy for what was once an outrage upon the public. Persons whose memories run back into the fifties have not forgotten the paper monties have not forgotten the paper mon-ey of those days. It was, not inappro-priately, called by various names, as "wildcat," "yellow-dog," and "stump-tail" currency. It was issued by the banks of various States under State charters. The securities, usually munic-ipal bonds, were of uncertain value, sometimes valueless. Bank failures were common and with the failure the currency became either greatly deprewere common and with the failure the currency became either greatly depreciated or utterly worthless. The person who received it in payment for services or products one day, often found on the morrow that his money would buy far less than when he took it, or, perhaps, that it would not pass at all. The establishment of the National banks with such regulations by National statute that their currency is redeemed at with such regulations by National statute that their currency is redeemed at par, whatever may be the fate of the bank and its stockholders, was a step in the direction of safety. But the provision of law which made "wildcat" currency impossible levied an exorbitant tax on all issues of currency except those by the Government and by the National States of Currency except those by the Government and by the National States of Currency except those by the Government and by the National States of Currency except those by the Government and by the National States of Currency except those by the Government and by the National States of Currency except those by the Government and by the National States of Currency except those by the Government and by the National States of Currency except those by the Government and by the National States of Currency except those by the Government and by the National States of Currency except those by the Government and by the National States of Currency except those by the Government and by the National States of Currency except those by the Government and by the National States of Currency except those of Currency except those by the Government and by the National States of Currency except those e those by the Government and by the National banks. The National banks were placed under a rigid official supervision so that they were children as the they were children. vision, so that they were obliged to com-ply with the law as to capitalization, the use of their capital, interest rates, etc. Their currency was and is furnished by the Government, so that its limitation is absolute.

It is not intended here to enter upon general discussion of the National banking system, some features of which were and still are, doubtless, open to criticism, but only to use it as an illus-tration of what may be done to regulate

corporations, however large or small. when Congress shall enact a general corporation law, defining and limiting the powers of National corporations, and placing them under a supervision as close as that of the National banks, and taxing all State components. taxing all State corporations, mergers, and trusts, by whatsoever name designated, at such rates as shall drive them all to surrender their State charters and to incorporate under National law, then may the trusts be brought under effective control, and the evils of the trust system may be eliminated as effectually as were the evils of the currency of the old banking system.

MOLES AND GOPHERS.

EDITOR KANSAS FARMER: -Do know of any way to successfully destroy the moles that are so destructive to alfalfa fields? I have be to alfalfa fields? I have been trying to trap them, but have had no success whatever. Please inform me if there is, and what is the best way to exterminate the little rascals and oblige a new subscriber. W. H. GILLIS.

Culver, Ottawa County.

realized in some prominent circles that alfalfa by moles. The burrowing anithe innocent purchaser can not always mal that does most to render life a bur-This is the first report of damage to rows and three sows, of a 6-months-old be protected from the consequences of den to the alfalfa-grower is the pocket

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This animal has been made gopher. the subject of careful experimentation the subject of careful experimentation by Prof. D. E. Lantz of the Kansas Ex-periment Station. His report discusses the methods of dealing with the gopher. Moles live chiefly on insects so that, if they are to be poisoned, insects must be used for bait. For the benefit of this correspondent and others who may be troubled with gophers or may like be troubled with gophers or may like to try the gopher remedies on moles, we present herewith an epitome of Professor Lantz's report.

It was found that poisonous gases such as carbon bisulphide were not uniformly successful in the destruction of the pocket gopher. The great lengths and irregular depths of the burrows prevent the gases from flowing into every

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Trapping is a sure, but slow, method if properly done and persistently followed. An excellent trap for general use is the No. 0 ordinary steel trap. In using it, enlarge the hole sufficiently to admit the trap, and remove all the loose soil which may have fallen in to obsoil which may have latten in to obstruct the runway. Sink the trap in loose soil to the level of the runway, and nearly conceal it by sprinkling fine earth over it. Leave the hole open,

There is a special trap for moles which is set by pressing a prong into the soil on either side of the run. The mole springs it by the slight pressure he exerts against the under side of the trap in passing it.

Poisoning is the most efficacious method with pocket-gophers. The methods and poisons used may well be tried with moles. Professor Lantz says:

"Pocket gophers are easily poisoned. They are very fond of common potatoes, (Continued on page 1186.)

KANSAS CROP REPORTS ARE CON-SERVATIVE.

Not infrequently the appearance of the annual crop report of the secretary of the Kansas State Board of Agriculture calls forth lusty criticism from people whose vision is too narrow to cover the trans-Missouri country. They can not believe that we produce so much of the standard food materials of mankind or that we receive so much money for them. Their quick judgment is that the secretary has padded the returns.

A few comparisons of final reports of the

Kansas secretary with final reports of the National Secretary of Agriculture show conclusively that the Kansas reports are very conservative, being always low-er than those compiled by the Govern-ment officials from data of their own gathering.

Following is a comparison of Kansas wheat, corn, and oats yields and their values as estimated by the United States Department of Agriculture and by the Kansas Board of Agriculture, for five years ending with 1901:

wheat, owing largely to the weeks of continuous rain following harvest, is not all that we could wish, and our millers have difficulty for the time being in procuring a full and constant supply of the grades necessary to maintain the high standard of Kansas' famous hard wheat

"In corn yields likewise, but in another direction, we shall disappoint the wise ones, especially those whose ideas have been formulated from the Government's preliminary estimate, issued November 10, giving us about 252,000,000 bushels. We have lots of good corn on the whole, and in some sections it is phenomenally so, but any estimates which push it far past the two-hundred-million-mark are likely to be too stiff.

"Uncle Sam's figures are every year far more generous toward us than any we care to make for ourselves, and we are glad to have it so, as it is always policy of her board of agriculture that Kansas shall be able to deliver all the goods she advertises, and more, but

THE POLAND-CHINA MERGER

AGAIN.

of pedigreed Poland-China swine to con-

solidate the Poland-China Record Asso-

ciations into one National record for the

breed, are meeting with prompt and response from stockholders in

the various associations, and the agri-

cultural papers of the country are doing everything possible to promote the busi-

ness interests of Poland-Chinas in urg-

ing the consolidation as soon as possi-

and of vital importance to the future welfare of this breed, and every breeder of Poland-Chinas who owns a share of stock in any association who is anxious

to avoid the confusion and expense

which now obtains by the multiplicity of records, or who wishes to have one

ecord for one breed like all others, should offer his shares in exchange for

similar amount in shares in the pro-

On October 30, the Kansas Farmer

gave a detailed account of a meeting of

breeders which started this movement

during the American Royal Swine Show

at Kansas City. We are now in receipt of a letter from Frank B. Winn, secre-

tary of the committee appointed at that

time with the following announcement:

"Since publication of the minutes of the meeting of the Poland-China breed-

Poland-China record associations, I, as

secretary of the committee appointed at said meeting to consider the matter, have had many letters from stockhold-

ers in each association, strongly favor-

ing consolidation. In almost every instance they offer their shares for the

"The committee referred to, appointed

"The committee referred to, appointed at Kansas City, consisted of J. C. Hendrick, Wilmington, Ohio, representing the Ohio Record, T. R. Wilson, Morning Sun, Iowa, of the American, C. F. Dietrich, Richmond, Kans., of the Standard, John Harcourt, New Augusta, Ind., of the Central, and H. M. Kirkpatrick, Wolcott, Kans., committeeman at large. A meeting of the committee was held after the adjournment of the stockholders'

ter the adjournment of the stockholders'

meeting and H. M. Kirkpatrick made

posed national consolidation.

bringing about a consolidati

consolidated shares.

a sane and business-like idea

The efforts of representative breeders

	CORN.	Bushels.	Value.			
1897 1898 1899 1900	U. S. report. 162,442,728 132,842,048 237,621,222 163,870,630	State report. 152,140,993 126,999,132 225,183,432 134,523,677 42,605,672	U. S. report. \$ 35,737,400 34,538,932 59,405,306 52,438,602 38,748,801	\$ 28,555,293 30,298,097 53,530,576 39,581,835 21,731,215		
1900		681,452,906	\$220,869,041	\$173,697,016		
1897 1898 1899 1900 1901	47,998,152 64,639,412 36,468,044 82,488,655	51,026,604 60,790,661 43,687,013 77,339,091 90,333,095 323,176,464	\$ 35,518,632 32,469,706 18,963,383 45,368,760 58,456,789 \$190,777,270	\$ 34,385,304 32,937,042 22,406,410 41,974,145 50,510,505 \$182,213,406		
Total	39,129,410 43,063,943 17,332,410	20,806,329	\$ 6,962,414 5,871,635 8,608,470 9,904,707 7,452,936	\$ 3,828,192 4,268,861 4,951,636 6,626,444 7,375,817		
Total	164,895,091	7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\$38,800,162 m she has			

Briefly, the State is credited by the United States reports with more than the claimed on these three products alone in five years thus:

Bushels. Value.

Bushels. Value.

347,172,025

We do not claim she has 250,000,000 bushels of corn this year.

"These official figures taken together convey the State's story plainly and more eloquently than is otherwise possible."

alone in five years the	Bushels.	Value. \$47,172,025
Corn Wheat Oats	76,829,756 7,797,103 41,738,197	8,563,864 11,749,212
Total	126,365,056	\$67,485,101

Speaking of this year's report, published in another column of this paper, Secretary Coburn said:

"Our report shows very much more wheat than the 'talent' anticipated, but Kansas has this wheat, and more rather than less, as a critical analysis of our very full returns in careful detail shows that we have been even more than usually conservative. With the slightest willingness or disposition to permit a semblance of inflation the State could easily be given a showing of sixty million bushels of winter wheat in spite of early season mishaps and the enormous early-season mishaps and the enormous doubtful acreage plowed up, to be plant-

ed in corn and other crops. "Of course the quality of much of this

If Your Friend Is Sick

Tell Me the Book to Send.

No money is wanted-not from you nor from him. I ask only a postal card, and I ask it as an act of humanity.

order—
ers in Kansas City, during the American
x bottles Royal Swine show, for the purpose of Then I will do this: I will mail the sick one an order-Dr. Shoop's Restorative. He may take it a month at my risk. If it succeeds, the cost is \$5.50. If the sick one even thinks it has failed, I will pay the druggist myself.

Please note what that means. I furnish a costly treatment that I spent a lifetime in perfecting, and whenever it fails the test is entirely free. But failures are rare. My records show that 39 out of each 40 get well, and pay for the remedy gladly.

No other remedy, in chronic and diffi-cult cases, could stand a test like that. The reason is this: My Restorative alone strengthens the inside nerves. There is no other way to bring back that nerve power which alone makes each vital organ do its duty. There is no other way to make weak organs well.

book you want, and address Dr. Shoop, Box 529 Racine, Wis.

Simply state which Book No. 1 on Dyspepsia. Book No. 2 on the Heart. Book No. 3 on the Kidneys. Book No. 4 for Women, Book No. 5 for Men (sealed) Book No. 6 on Rheumatism

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

committee can be considered and something definite decided upon. "It is hoped that all those favoring and

interested in consolidation of the different records, the greatest thing that could possibly be done for the advancement of the breed, will be present at the meeting in Chicago, or, if this is im-possible, will at least write their views and suggestions as to how it may best be accomplished. I should like for every Poland-China breeder in the United States, who can not attend the meeting, to write me in care of Wyoming Hotel, Chicago, at which place the meeting will be held so that we may have a better idea of the wishes and desires of the whole fraternity."

PARTITION FENCE QUESTIONS.

EDITOR KANSAS FARMER:-I have had some difficulty concerning a fence, and wish you would state in the Kansas Farmer your opinion, or the law in re-

gard to the matter.

A owned the north half of the east half of the section, and B owned the A fence was built, each south half. building half the fence, A building his half on the west end, and B building his on the east end.

After a death in B's family, 90 acres were sold off from the east part of B's place. A new fence is necessary, and the owner of the 90 acres refuses to

build a fence.

(1) Is it right that A should put up half the fence on this 90 acres?

(2) Should A build his half of the compal the owner of the fence, could he compel the owner of the

90 acres to build the other half? CLEM GEIGER.

Everest, Brown County.

(1) In case the agreement between A and B, assigning to each a definite portion of the fence to build and maintain, was acknowledged as conveyance of land, and recorded by the register of deeds, such agreement would be binding upon all subsequent owners of the land. In case the agreement was not recorded

In case the agreement was not recorded, it is doubtful whether the purchaser would be bound by it.

(2) The law requires that the owners of adjoining lands shall keep up and maintain in good repair, all partition fences between them, in equal shares, so long as both parties continue to occupy or improve such lands, unless otherpy or improve such lands, unless otherwise agreed. The law also provides a method of compelling a party who ne-glects and refuses to build his share of a fence, to do his duty in this respect, to pay the other party for building The provisions of the law are ample, but space forbids their full presentation

It would be better for A, if possible, to make a new agreement with each of the present owners. If A has maintained a good fence on the west half of the line, he should, under the new arrangement, get pay for half of the present value of such fence. If there is any value in the remnant of the fence along the east half of the line, such value should also be taken into consideration. Neighbors should, if possible, settle such matters by agreement, or by calling in a competent and disinterested third person, and avoid the cost and illfeeling sure to result from going to law

TO CURE A COLD IN ONE DAY re Laxative Bromo-Quinine Tablets. This

Agricultural Matters.

More About the Sugar Industry.

EDITOR KANSAS FARMER:—The question of the sugar industry is one of the greatest importance to the farmers, not only in Kansas, but in the whole country. It is one that in a few years more, will be worth hundreds of millions of dollars to the farmers of the United States. If this industry can be so well established here as to provide all the sugar consumed by our people, it will permanently provide a market for one of the most profitable crops the farmers meeting and H. M. Kirkpatrick made chairman, and it was decided that another meeting of all those interested in consolidation should be held during the International Exposition at Chicago, at which time the plans suggested by the

all of the northern States. Sugar-cane can be grown in southern Texas, Mississippi, and Georgia. Sorghum can be raised in most of the Central States running east and west.

You doubtless remember that soon after the McKinley tariff bill was passed, the government leased forty acres of Miller & Benedict's land, for tne purpose of experimenting with sorghum as a sugar-producing plant. In the three years the experiments were being made, the percentage of sugar in the sorghum raised was increased from 9 to 12 per cent to 14 to 18 per cent. The government built a small factory at Medicine Lodge, for manufacturing sugar from sorghum, and the city of Medicine Lodge was bonded for \$35,000 to raise funds to establish a large sugar factory there. The experiments sugar factory there. The experiments made were sufficient to prove that the industry could be made a perfect success if it was properly and permanently protected. The framers of the McKinley bill, however, made one serious mistake. They took the tariff off from sugar, and thus cut down the revenues of the government about \$50,000,000 a year, and offered a bounty on sugar of about two cents per pound. Had they placed a tariff of two cents a pound on sugar, and let it remain, factories for the manufacturing of all the sugar we consume would have been built, and the sugar would be produced by this time. But the Wilson-Gorman tariff bill stopped the bounty, and put the duties so low, that it ruined the industry at Medicine Lodge. Colonel Hinman and the Best company, who managed the large sugar factory at Medicine Lodge, told me that with a duty of two cents per pound maintained, they could produce sugar from sorghum for two cents a pound, in

In the reports of the investigations, made to the ways and means committee last year, it was shown that Cuban sugar planters can produce sugar out of sugar-cane for 1½ cents a pound. Cuba has the soil and climate that will enable her to produce more than 3,000,000 tons a year if she can have free access to our market. Without ample protection, therefore, we can never succeed in producing our own sugar.
Suppose it does cost \$221,450,000 to

produce the 3,000,000 tons of sugar we shall soon need, who gets that money? Does it not go into the pockets of the sugar-cane, sugar-beet, sugar-sorghum raisers and manufacturers? Suppose you could buy the 3,000,000 tons of sugar for \$180,000,000 of Cuba, who gets the money it costs but the Cuban plant-er and the Cuban sugar-maker?

But the amount paid for foreign sugar is estimated too low. The very day your paper reached me, I had ordered a barrel of granulated sugar, of a whole-sale grocer in New York, for Miller's Hotel. The cost was 41/2 cents a pound. That would be \$90 a ton. Our 3,000,000 tons would have cost \$270,000,000. This would make a net profit of \$48,000,000, all of which our own citizens would get.

Furthermore, last September, when at my ranch in Medicine Lodge, my man-ager was paying 5 cents a pound. That would be about the required average price of sugar for our people, or \$100 a ton. Our sugar would, at that price, cost \$300,000,000, which, if all made at home, would find its way into the pockets of our own people. With 600 sugar factories in this country, making all our own sugar, the competition in its production would soon be such that the price would be brought down to a fair price would be brought down to a fair profit over the actual cost, and the people would get their sugar at 3 cents per pound at retail. Just figure up what such an industry would amount to in twenty years, and what a blessing it would be to our farmers and laborers.

New York

E. P. MILLER. E. P. MILLER. New York.

The above letter from Dr. Miller is in answer to some remarks in the Kansas

WHEN YOU

Use our latest improved machines and you can down all competition! The old kinds LOOMIS MACHINE CO., Tiffin, Ohio,



FARMER of Nov. 6, with reference to figures presented by Dr. Miller in an East-ern paper. The Kansas Farmer will be very glad if the sugar industry shall have a large and healthy development in this country. But the figures presented by beet-sugar enthusiasts as to disbursements to be made among the people on account of the hoped for de-velopment of the industry are almost uniformly too roseate.

If the manufacturers of sorghum sug ar could have obtained at wholesale the price which Dr. Miller paid at retail, though buying of a wholesale house, their factories would not be dismantled today. That Dr. Miller paid more than the wholesale price for his sugar is apparent from a comparison of the 4½ cents a pound charged him with the 3 3-16 cents a pound quoted by the Louisiana Planter as the New York price on November 14, 1902. That Dr. Miller is paying a fairly high price for his sugar is further shown by comparing his 4½ cents a pound with the Havana, Cuba, quotations of Nov. 7. The correspondent of the Louisiana Planter says: "At close, exporters are willing to pay 1 13-16 to 1%c for 95-96 test, but holders' pretentions range at from 2 to 21-16c, which is higher than New York quotations." Now, 2c for 95 test is a little tions." Now, 2c for 95 test is a little more than 2 1-10c for pure sugar. Add 1/4 cent for refining and we have 2.35c which according to the Planter's correspondent, should be above the New York price less tariff. It is contended by opponents of the proposed reciprocity arrangement with Cuba that planters are doing well at present prices of sugar in the island. A writer a few days ago even placed the cost of pro-duction, since the introduction of improved appliances, at one cent a pound. This, it will be remembered, is the figure at which Herbert Mysick, some years ago, placed the cost of producing sugar in the East Indies, while he gave 1% cents as the cost in Cuba.

In view of these latter figures it is evident that if sugar in this country is to command a price of even s cents a pound, pretty stiff tariff rates will have to be maintained.

The Kansas Farmer has great confidence in the ability of Americans to do things. If chances were at all even we things. It chances were at all even we should be able to make our own sugar. That we shall be able to compete with beet-sugar producers there is little doubt. But with a country like Cuba at our doors and likely to become a part of us, a country in which improved machinery and processes are reguly adopt. chinery and processes are readily adopted, a country that will doubtless be able to produce sugar at one cent a pound, it is questionable whether any amount of artificial stimulus will result in permanently establishing a beet-sugar in-dustry here.

Seed-corn.

The division of agronomy of the Iowa Experiment station, has issued a circular on "Storing and Purchasing Seed Corn," from which we excerpt the fol-

lowing points, most of which will be found applicable in Kansas:

Owing to the extremely wet season followed in many sections by an early frost, the problem of seed-corn for 1903 is of unusual importance. Those who save seed-corn from their own fields should take unusual precautions to thoroughly dry and store in a well ventilated place.

STORING SEED-CORN.

There are many different methods of storing seed-corn, but the experiments which have been conducted by the station indicate:

1. That it is not advisable to harvest immature corn and place in a warm room, as there is danger that the corn will begin to germinate as a result of tne moisture and warmth.

2. That corn intended for seed should be allowed to thoroughly mature on the stalk or in the shock before husking.

3. That the best results are obtained when stored in a dry and thoroughly ventilated place.

4. That cold does not injure the vitality of corn when it is thoroughly dried and kept dry, but on the other hand, if allowed to gather moisture, freezing win reduce the vitality and may destroy

5. That it is unwise to store seed-corn in barrels or boxes, as it will gather moisture. Corn often contains a great deal of moisture, even though it appears to be thoroughly dry. This is especially true during the fall and early winter

The one thing that seems to be the most essential in the storing of seedcorn is thorough ventilation.

IMPORTANCE OF PURCHASING SEED-CORN IN THE EAR.

The injury by frost to the corn crop

will make it necessary for many farmers, who in previous years have saved their seed-corn from their own fields, to purchase their seed this year from seedsmen or seed-corn breeders.

At this early date many inquiries have been received by the Experiment Station, requesting information regarding the purchase of seed-corn. It is a significant fact and worthy of special note, that almost every inquirer has stated that he desired to secure his corn in the ear. Disappointment and loss have often been the result when these farmers bought shelled seed-corn. This year they demand that seed be shipped in the ear. Their action is not a fad, but is based upon the fact that when the corn reaches them in the ear, opportunity is afforded for a careful study of the uniformity of shape, size, and color of the ears and of kernels, the freedom from mixture and the vitality.

GREATEST FACTOR IN PURCHASE OF SEED-

In securing seed, the factor of the greatest importance is the purchase of that corn which will give the largest yield per acre and of the best quality. The acre is the unit in corn production, and therefore that seed is the best which gives the largest yield per acre Carefully selected seed, of pure-bred varieties, gives the largest yields. Hence, the important question for the farmer who must purchase seed-corn this year is not one of cost, but of quality. It will prove far more profitable to pay three or four dollars for a bushel of seed-corn which will germinate well, and insure an even stand and a large yield, than to accept an inferior grade, even though the first cost be exceedingly low. Purchasing seed-corn in the ear offers the farmer the surest and safest way to se-cure seed which will prove satisfactory.

'Heretofore the common practice among corn breeders and seedsmen has been to send out to farmers shelled corn. This method of handling seedcorn can never, in any adequate way really help the corn growers of the State to improve their corn. This is true because much of this corn has been indiscriminately purchased from farmers who have paid no attention to the selection and breeding of the corn. For this reason the seed often proves no better, if as good, as that which the farmer himself has been growing in years past.

the improvement of the quality and If every purchaser in Iowa will de- dollars.

yield of corn in Iowa, when our farmers realize the importance of purchasing seed-corn only in the ear.

The following facts are offered as evidence that the custom of purchasing shelled corn is unwise and detrimental to the best interests of Iowa corn grow-

When the corn is in the ear the farmer can see just what he has. If, after a critical examination he is confident that the corn is unsatisfactory he can reject it and return it at once. This plan will enable him to secure corn from another source or use his own seed, which in fact may be superior to that which has been shipped to him. been shipped to him. He will not lose a year in discovering that he has an un-desirable type of corn. The corn grow-er seldom buys seed-corn for his entire acreage, and therefore it is possible for him to select, from the few bushels which he has purchased, the best ears in the entire shipment. If these ears have been selected with care and are of a desirable type as to size, shape, market condition, and character of the kernal, they should be planted on one side of the field where the conditions are the most favorable. Thus a limited area is grown from the best seed. This portion of the field should yield superior corn for seed for his future crops. When acreage, and therefore it is possible for corn for seed for his future crops. When this plan of selection is repeated year after year, corn is grown which is well adapted to the latitude and conditions in which it is raised.

Corn in the ear also, is the farmer's strongest guarantee against the fraudulent practices of unscrupulous seedsmen, who often purchase entire fields or cribs of corn and shell it and ship it without care for selection or real merit.

Seed-corn handled in this manner is of inferior type and quality, often lacks vitality and must necessarily give a poor stand and a low yield.

SEED-CORN SHOULD BE TESTED.

Again, when seed-corn is received in the ear, two or three kernels from each ear should be removed and tested, Those ears which show poor germinating qualities can be rejected. On the other hand, if shelled corn is purchased, the kernels from the ears of low vitality or germinating power are mixed with the others and can not be separated. The result must necessarily be a poor stand and a reduced yield.

Experiments show that all the kernals

A marked advance will be made in the improvement of the quality of the quality of the constitution of the quality of the quali

Nobody else apparently dares put his name on his lamp chimneys.

Масветн.

If you'll send your address, I'll send you the Index to Lamps and their Chimneys, to tell you what number to get for your lamp,

MACBETH, Pittsburgh.

cline to receive any seed-corn except in the ear, the most important step tend-ing toward the improvement of seedcorn will have been taken. Reliable seedsmen will stand ready to supply seed-corn in the ear whenever the demand is such as to warrant it.

IDEAL EARS FEW IN NUMBER.

The purchaser, however, must not expect too much. Good ears of corn, those approaching perfection, are few in number. Seed ears, such as are exhibited at corn shows, are hard to find, and the farmer must not expect to receive corn from any source which is up to the standard of show-corn.

However, uniformity of shape, size, and color, of both ears and kernels, such uniformity as indicates good breeding, trueness to type, strong vitality, and freedom from mixture should characterize every ear in the shipment.

The question of seed-corn in Iowa for the season of 1903 is important, for upon the season of 1903 is important, for upon the type, quality, and germinating pow-er of the seed planted will depend, in large measure, the stand, yield, and quality of nearly ten million acres of corn next year. To much emphasis can not be placed upon the fact that success or failure in corn production is based very largely upon the seed planted. Iowa now has annually nine and one quarter million acres in corn, an increase of one bushel of corn per acre, means to Iowa farmers over two million

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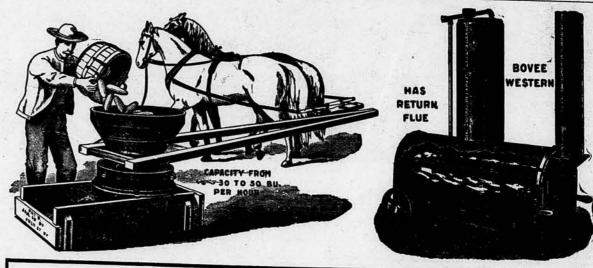
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WATERLOO. IA.

The Stock Interest.

THOROUGHBRED STOCK SALES.

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

November 28, 1902—J. R. Young, Richards, Mo., Pond-China hogs.

November 28-29, 1902—W. P. Harned, Vermont, Mo., and F. M. Marshall, Blackwater, Mo., at Kansas City, 40., Godoy Shorthorns.

December 4 and 5, 1902—Herefords at Chicago, Ill., inder auspices of American Hereford Cattle Breeding Association, (During week of International Cattle thow.)

w.) scember 8-9, 1902—J. E. Logan and Benton Gabbert ons, Kansas City, Mo., Herefords. beamber 16, 1902—Gifford Bros., Manhattan, Kans., beamber 16, 1902—Gifford Bros., Manhattan, Kans.,

horthorns.

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

Sanuary 12-17, 1903—C. W. Armour and Jas. A. FunkJanuary 22 and 22, 1903—Combination sale pure bred
January 22 and 22, 1903—Combination sale pure bred
January 22 and 22, 1903—Combination sale pure bred
Hereford cattle at South Omaha. W. M. Rogers, Motook. Neb.

Hereford cattle at South Omaha. W. M. Rogers, McJook, Neb.
January 28-29, 1903—C. A. Jamison, Peoria, Ill.,
horthorns, at Chicago.
February 3, 4, and 5, 1903—Combination Sale, Wichita,
Kans., Percherons, Shorthorns, and Poland-Chinas.
W. & J. C. Robison, Snyder Bros., and others.
February 10, 11 and 12, 1903—J. F. Stodder, George
Sothwell and others, Shorthorns; also C. A. Stannard
ind others, Herfords; Oklahoma City, Oklahoma.
February 17, 1903—Geo. F. Kellerman, Shorthorns
tansas City, Mo.
February 20, 1903—S. S. Spangler, Milan, Mo.,
ercheron horses.
March 3, 1903—L. M. Monsees & Son, Smithton, Mo.,
acks, Jennets, saddle horses and Poland-China swine.
March 3 and 4, 1903—C. H. Garner and M. A. Judy,
berdeen-Angus cattle, Chicago.

fattening Steers Without Hogs to Follow.

ULLETIN NO. 112-JUNE, 1902. FARM DE-PARTMENT KANSAS EXPERIMENT STA-TION.

I. M. Cottrell, M. S., Agriculturist. I. G. Haney, B. S., Assistant in Field and Feeding Departments.

(Continued from last week.)

WATER. The eighty steers were watered at wo tanks, the tanks so arranged that each tank could be used by two yards. The steers had free access to water at all times. During the cold weather the water in each tank was warmed by a tank-heater, manufactured by the United States Wind Engine and Power Company, Batavia, Ill. The water was kept at a temperature of about fifty degrees, the temperature of cool well-water. The he temperature of cool well-water. The anks stood in open lots, uncovered and inprotected, and the heaters were sat-sfectory in every particular.

The heaters were kept running sixtysight days, when the weather became so warm that there was no further use for them. The two heaters in the sixtyeight days consumed 2,545 pounds of coal. At four dollars per ton, this cost \$5.09—less than one-tenth of a cent a day for each steer. The care of the heaters was no more than was necessary to keep the ice out of other tanks where heaters were not used. The warmed water was palatable to the steers, and we regard the tank-heater as profitable in cold weather in every feedvard.

Salt boxes were placed in each feed lot and wer kept filled with loose barrel salt. The steers had access to the salt at all times. The steers fed shelled corn and whole hay ate an average of .44 of an ounce of salt per steer per day. The steers in the other three lots are an average of .46 of an ounce of salt ate an average of .46 of an ounce of salt per steer daily.

MINOR THINGS.

"CONTENTMENT IS FAT," and every lit-tle thing that adds to the comfort of the steer or makes him more contented increases the gains which he makes from each bushel of grain. For this reason we mention some of the minor things connected with this experiment that may have influenced the results from

Each car-load of steers (twenty head) was kept in a yard 100 by 280 feet. At the north end of each lot was a shed fifty feet long, fourteen feet wide, closed on the north, open to the south. The lots sloped to the south and were well drained, so that there were very few days when the steers could not lie down comfortably on dry ground. A steer makes the greatest gain when he spends the most time lying down comfortably chewing his cud, and he will not spend enough time lying down to make good gains when the lots are muddy.

The feeds were mixed and fed dry. Experience since this experiment was completed indicates that it would have fed together in the same feed-box. completed indicates that it would nave paid us to have dampened the hay before the grain was mixed with it. The best results are obtained where each stalk and leaf has grain adhering to it, and where there is no loose grain. The cut and taken to the feed-lets. One and er the advantage of this close mixing. Other end was raised above the ground Several feeders the past winter have so that it just cleared the back of the succeeded in feeding as high as eight tallest steer. The tree was held in pounds of cottonseed-meal a steer per place by being bolted to well-set and

day for several months, in addition to a good ration of corn, by dampening the roughage and mixing the grain with it so thoroughly that every small particle of grain was attached to a piece of roughness. Where only two or three carloads of steers are fed, the dampening of the roughness can be done in a ing of the roughness can be done in a few minutes each day by using a common watering-pot.

The steers were fed twice each day, at seven a. m. and five p. m., and the feeding was done exactly to the minute each day. The steers were watched each day. The steers were watched closely and were given all that they would eat up clean within three hours after feeding. With this method the steers knew exactly when to expect their feed, they were always ready for the next feed, and did not lose in weight by fretting as steers do when fed at by fretting, as steers do when fed at irregular times. The hours of feeding were so arranged that the steers did all the work of eating by daylight. All our experience goes to show that this is an important help in making the best gains. By giving the steers just enough feed so that they would eat it up clean within three hours after feeding, they had fresh feed each time they came to the feed-boxes, and their appetites were not so cloyed by having to work up left-over



The Old Reliable Anti-Friction Four-Burr Mogul Mills

No gearing; no friction. Thousands in use. Four-horse mill grinds 60 to 50 bushels per hour; two-horse mill grinds 30 to 50 bushels per hour. We make a full line of FEED MILLS, best ever sold, including the famous New Grinder No. 2 for \$12.50. . . . Send for free Catalogue.

Manufactured and Sold by the IOWA GRINDER and STEAMER WORKS, Waterloo.

know what these trees were for before the work of setting out was completed. They spent hours of enjoyment in rubbing themselves on these trees; the rubbing seemed to have the same effect as grooming, and after the trees were set we had no further trouble with the steers rubbing either sheds or fences.

The first day of the experiment the steers were fed at the rate of five pounds of corn and eight pounds of al-

anchored posts. The steers seemed to steers fed corn-meal and cut alfalfa hay up to the time the soy-bean meal inter-fered with the work.

iere	su	WILL THE	A	v. dally	Feed re for 100 l	equired os gain
Da	ys 1	ed.	g	steer, lbs.	Grain, lbs.	Hay, lbs.
Up	to	7		6.42 3.98	101 251	281 425
Up	to	21		3.41	382	429
Up	to	35		3.19	467	405
Up	to	49 63		2.98	541	400
Up	to			2.84	593	381

The steer is naturally a grass-feeding



Fig. 1. Feed-box for Feeding Grain and Hay Mixed.



Fig. 2. Rubbing Pole.

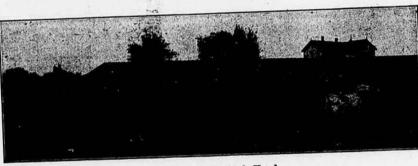


Fig. 3. Shed and Yard.



Fig. 4. Tank-heater.

This is a cast-iron stove that is set in the center of the tank and is surrounded by water, except on the top. Openings for draft and for fuel are at the top.

previous feeding. Six hours a day was all the time the steers were allowed to spend in eating and most of them spent considerably less. This allowed many hours each day for chewing the cud and providing up the feed so that the greatworking up the feed, so that the greatest amount would be absorbed by the body and go to increase the steer's weight. The steers were handled quietly, not a loud word was spoken in the feed-lots, and the steers soon became so tame that they paid little attention to the many visitors that came to the

The feed-boxes were sixteen feet long, three and one-half feet wide at the top, two feet wide at the bottom, one and one-half feet in depth, and were two and one-half feet from ground to top. They were made tight and were portable, so that they could be kept in the dryest part of the yard. The steers were fed in the open air. One feed-box was required for each ten steers, and the grain and roughage were mixed and

and where there is no loose grain. The cut and taken to the feed-lots. One end and where there is no loose grain. The cut and taken to the feed-lots. One end more concentrated the grain, the great- of the tree was set in the ground, the er the advantage of this close mixing. other end was raised above the ground

feed that had been mussed over at the the alfalfa hay they would eat clean. We have found that when stock has not We have found that when stock has not been accustomed to eating alfalfa hay, full-feeding of it induces scours. We usually take thirty days to get either horses, steers or dairy cows on full feed of alfalfa hay, and when this is done there is no trouble in feeding it. While getting stock on full feed of alfalfa, either prairie or timothy hay or straw either prairie or timothy hay or straw may be fed.

An increase of one-half pound of corn per steer per day was made for 24 days; then the amount of increase was slightly dropped. At the end of 35 days of feeding each steer was receiving daily 19.4 pounds of grain. From this time on each lot was fed twice daily all that they would eat up clean in three hours, but it was seldom that they ate more than 19 or 20 pounds of grain and 10 to 12 pounds of hay daily per steer. After 30 days the steers began dropping slow-

ly in the amount of hay consumed.

Feeders are divided as to whether
this system of taking thirty to forty days to get steers on feed is the one to use, or whether steers should be put on full feed in one or two weeks. No accurate experiments have been made to test this matter, but this experiment, as well as all our feeding experience, indicates that good gains may be made with small quantities of grain when the

INDIVIDUAL GAINS.

The steers were fed 116 days and the gains made by individual steers varied

widely.	Greatest gain for single	Least gain fo single
Feed.	ster,	steer,
Shelled corn, whole alfalfa Shelled corn, cut alfalfa Corn-meal, whole alfalfa	385	145 115 165 180

Corn-meal, cut alfa The eighty head of steers were selected for evenness in size at the beginning; the lightest weighed 885 pounds and the heaviest 1230 pounds. Especial pains were taken to get the four lots as equal in size, weight and feeding quality as possible, and yet there was great variation in the gains made by individual steers. A careful study failed to give an explanation in every case of the cause of these variations.

CONCLUSION

The best results obtained in this experiment was an average gain of 100 pound for 680 pounds of grain, or 8.2 pounds of gain for each bushel (56 pounds) of grain eaten. This was made with the car-load of steers fed corn-meal and cut alfalfa hay. This gain was obtained by grinding the corn, cut-ting the hay, feeding the grain and hay mixed, keeping the steers in well-

with fresh, palatable feed, giving them comfortable shelter and kind care, and having clean, ice-free water always within their reach.

This shows a saving in grain of from twenty-five to forty per cent over the usual methods of fattening steers. This experiment was our first in developing methods of fattening steers that would save grain, and it is improbable that the method that will make the greatest saving was discovered at the next trial. It is reasonable to consider that further trials will develop even more economical methods. It is almost certain that a mixture of grains will give better results than corn alone.

The business of fattening steers has eached a turning-point. With cheap reached a turning-point. With cheap land and cheap corn, the old method of shoveling half a bushel of ear corn a day to each steer and paying little at-tention to the roughage, sometimes paid. It will not pay now. Good corn land near Manhattan, Kans., costs \$75 per acre, and farther east in the corn belt the cost rises to \$100 or even to \$150° the high religion. per acre. Feeders on this high-priced land will have to do what manufacturers have already done—more thoroughly utilize the materials which they handle. With the old methods, a large portion of the corn was not digested by the steer, and this kept him in an unhealthful condition. The old methods gave four and one-half to five and one-half pounds of gain from a bushel of corn. The best method used in this experiment gave more than eight pounds of gain per bushel of corn.

The feeder should adopt methods that are along the best lines shown in this trial, and then feed well-bred cattle that produce the greatest per cent of highpriced cuts.

The International Outlined.

The magnitude of the International Live Stock Exposition, soon to open at Chicago, is best realized in the fact that more than ten acres of actual floor space under roof and in permanent buildings is required for accomodations for the greatest display of fine live stock ever brought together in the world; that a large outdoor tract in the Union Stock Yards is devoted to car lots of cattle, sheep, and swins; that permanent buildings involving an outlay of saveral hundred thousands of dellars. of several hundred thousands of dollars have been erected by the Union Stock Yards and Transit Co., the parents of the great Exposition; that the President of the United States, recognizing the pronounced commercial importance of the Exposition, is endeavoring to arrange to attend; that foreign nations have promptly named official representatives to report to their respective ministers of agriculture on the developments and benefits to the live-stock industry, as shown in this exposition; that half a million people from every section of this country and many delegations and individuals from abroad will attend; that at least twenty gov-ernors of agricultural States will partic pate in the ceremonies of governors der and visit the exposition during the week; that the railroads nave granted cheap rates from every section, and are fully prepared to handle the largest number of visitors to Chicago at any one time since the world's fair, and many other items of greater or less force tend to impress the enormous scope and effectiveness of the International Exposition.

On November 29 the exposition is to be opened informally, and all animals and exhibits are to be in the places they will occupy until the close. General Manager W. E. Skinner advises the public that the exhibition will also be open the Central Passenger Association has announced that the reduced rates will be sold on November 29, December 1, 2, and 3. This gives the visitors the full benefit of the time of the exposition. According to the official program, Monday is Agricultural College Students' Day, and Monday evening the ceremonies of formally opening the exposition will be presided over by Mayor Carter Harrison, of Chicago. Judging in all the rings commences Monday morning, and continues mornings and afternoons, and in some instances during the evenings, until the close of the show. Tuesday is Chicago day, when local civic bodies will cooperate in arranging an interesting program, and an immense throng of city visitors will mingle with those from out of the city. Wednesday, Governars' day, will be exceptionally important in the fact of the presence of Secretary of Agriculture Wilson and a and frenzy I have cried out for some score of governors of agricultural States change from this awful waste and as-

public addresses, and in the evening the splendid new Pure-Bred Live Stock Record Building, the only permanent building in the United States devoted ex-clusively to the headquarters of live stock associations, will be dedicated by Secretary Wilson and the governors. Thursday will be devoted to the railway live-stock officials and State sanitary boards, and Friday is designated as live stock association day. On Saturday, the championship and carcass awards will be supplemented in attractiveness by the decisions in the agricultural college student judging contest, and to which farmers' boys who are not enjoying the educational advantages are also admitted this year. Saturday is also children's day, when thousands of youngsters attend with teachers and parents, and every effort is exerted by the exposition management to make the show an occasion enjoyable for the juvenile element.

All the National live-stock record associations will meet in convention and annual meetings in Chicago, during the week of the exposition, and many important measures will be discussed and methods of breeding, feeding, etc., outlined. According to careful calculation the railroads anticipate an attendance from outside the city of half a million visitors. In order to provide for the comfort and accommodation of the hosts of visitors, General Manager Skinner has organized a complete bureau of in-formation, and over a thousand homes have been listed, in addition to the ho-tels and boarding houses, and assign-ments are being made daily, on receipt by Mr. Skinner, of applications for accommodations.

The principal headquarters of the bureau will be located in the magnificent new retail store of Marshall Field & Co., where every convenience exists for the comfort of vistors, and the management extends the hand of Chicago's hospitality with a view to making the visitor feel as welcome in the business part of Chicago as he is at the exposition.

Downtown branches of the bureau are to be located in the Great Northern Hotel, in the Western Union building at Clark and Jackson streets, and at other points, and members of the committee are to meet each train and give full directions and reliable information. Special provisions for the transportation of the throng have been made, and the train on the Lake Shore road from the gates of the exposition to the business center every few minutes, and the reverse, will greatly relieve the heavy traffic on the elevated and surface lines. The International this year will be by long odds the greatest, most attractive and complete exhibition of its kind ever known in the world, and indications point to the attendance of everyone interested in live stock and agricultural products who can possibly arrange for the trip.

Norton's Hog-trough.

EDITOR KANSAS FARMER: - The present wet season has been a severe trial on the hog-man who used the common open trough. As the trough was the only solid foundation in the muddy pens, of course the hogs used the trough to walk on, and when they came up for their on, and when they came up for their slop they used the trough to walk on.

Every hog-man knows the evils of the open hog-trough, and I can not tell him anything new about this abomination.

I have used them until I really thought they would drive me crazy. Three times a day, over and over again, day in and day out, week and month in and out, it is the same old thing.

You approach the pen with the rich slop and find the pigs all muddy and Sunday under the same conditions, the work of judging commencing Monday morning, December 1. In addition to the original selling date of November and the trough a mass of filth. You 28 for exhibitors on the certificate plan, the pigs' heads until you can get over the fence with the hoe to clean the trough out, and while you are cleaning out the trough the pigs are biting at your boot straps, running between your legs and crowding into the trough, actually making it more filthy than it was before.

All this time you are saying pleasant things that would not look well in print, and that should be reserved for your grandmother-in-law. The pigs are making a noise that would wake the dead for miles around and finally get so bold and so hungry that you have to climb out of the pen to save your life.

This picture is not overdrawn, but actually happens three times a day where the open trough is used, and much of the feed put in it is wasted. I have been through all this and graduated with high honors long ago. In despair will participate in a program, including sociation with filth, until I was forced plan a trough to avoid all this. As a result of this forced study, I have for a long time been using troughs that are the joy of my life—an actual pleasure to use. So important is this subject to the hog-man that I will go into minute detail and describe this trough so any one can make it. There is no patent on it as far as I know and it can be made by any one who choses.

Take for sills 11 strips 1 by 4, or 2 by 4, 6 feet long, or, better still, 8 feet long, and set them up parallel about 19 inches apart. Take 2 planks, 2 inches thick, 12 inches wide and 16 feet long, spike them down to these sills, placing the plank crosswise of the sills and side by side near the center of the sills, thus forming the bottom of a double trough Around these planks nail a 1 by 4 strip to form the edges of the trough and on each side of these planks lay down boards and nail them to the sills and we have the bottom of a trough and the board floor at each side of it that the hogs are to stand their front feet on while drinking. Now to keep the hogs out of the trough. Take 11 pieces of 2 by 4 scantlings 18 inches long, and set them up on end over the crack between the two planks that form the bottom of the trough. Place them 19 inches apart, and to the edges of these nail a 12-inch, 16-foot board on apart, and a 12-inch, 16-foot board nail a 12-inch, 16-foot board each side, having the bottom of boards just flush with top of edge of trough, making a double partition in the center of trough with 4 inches of space between walls of partition. Beveled-ended strips of 1 by 4 boards are nailed across the top of each upright studding. On each side above the partition boards a 1 by 6 board, 16 feet long, is nailed flaring out at top, thus making a sort of a hopper or secthus making a sort of a hopper or second-story trough on top of the hollow partition in center of trough. Now to brace the top of the trough, nail on 22 braces, 11 on each side, just over the sills, made of 1 by 4 stuff. The top ends of these braces are beveled to hold the second-story trough or hopper, and the bottom ends beveled to fit tight on floor, snug up to the edge of trough and just over the sills. To make the braces secure, nail a 1 by 4 16-foot board across the bottom ends so that the hogs can not tear them loose.

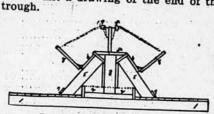
If the trough is to be made under a roof, this is all one needs, but if out in the open yard it must be protected from rain, hail, and snow, so as to be always in order without leaving to be cleaned out.

At the top of the braces nail a board 9 inches wide on each side of the trough. This leaves a space of 12 inches to put a 12-inch board in that is to be hung at the top edge with hinges and these two-hinged boards and a 12-inch board on top of the second story or hopper of the trough will exclude any storm; also the hogs when not wanted at the trough. The board on top is used as a cover and also to walk out on and has a trap door in center 8 inches wide by 20 inches long where the slop is thrown down. The whole board is on hinges so it can be tipped over out of the way to let in the sunshine, to fill up with shelled corn or any other

reason.

Set the trough perfectly level with one end up within four feet of the fence and connect an outside stile with the top of the trough by a stout plank and carry the slop out on top and turn it down in center of trough. There will be 20 stalls, 19 inches wide, for the hogs to drink out of and will accommodate 20 of the very largest hogs and 40 or 50 gilts. For pigs, use a trough with the bottom board one foot wide and 1 inch strips between the partition boards. A lady in a silk dress can slop the most vicious hogs without getting a parti-cle soiled and not a pinch of feed is wasted and no filth can possibly get into the trough. When the top and side-boards are hinged on, an upright must be put in middle of trough to fasten two pulleys to guide the rope used to lift the up the storm sides of the trough. When there is a bad sleet, one side may be put out of use, but the other will be in working order.

I submit a drawing of the end of the



J. C. NORTON'S HOG-TROUGH.

1 represents the sills. 2 the end of trough.

3 the space between the partition

to sit down and think it all over and

The safest, Best BLISTER ever used. Takes a place of all linaments for mild or severe action. Removes all Bulleties and Cattle, SUPERSEDES ALL CAUTERS and Cattle, SUPERSEDES ALL CAUTERS OR FIRING. Impossible to produce scar or blemisa Every bottle sold is warranted to give satisfaction Price \$1.50 per bottle, Sold by druggists. or sent by express, charges paid, with full directions for its use. Send for descriptive circulars. THE LAWRENCE-WILLIAMS CO., Cleveland. O. Bunches or Blemishes from Horse SUPERSEDES ALL CAUTERS The KEYSTONE Dehorning Knife makes the dehorning of cattlesin and easy. Operation over in ar stant; but a moment's pain. Cl , clear cut, with no bruit ing. Highly valued by ste Fully warrant M. T. PHILLIPS, POMEROY, PA. MULINE Husker's Friend And Nature's Perfect Healing Salve MAN OR BEAST.

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positive and thorough cure easily ac-mplished. Latest scientific treatment, expensive and harmless. NO CURE, NO AY. Our method fully explaned ox re-Chas. E. Bartlett, Columbus, Kans.

ary to eyes or other parts of animal. At dealers or by express, prepaid, \$1.50 gallon. 25 cent cans—dealers only. cial price in quantities. Write to-day book and free trial Car-Sul. Address MOORE CHEMICAL CO., 1501 Genesee St., Kansas City, F



studding to sustain top board that you walk out on.

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5 the side braces that keep the hogs from turning side wise and getting their front feet in trough.

6 and 7 are the top and bottom b that brace the side braces. The The hogs will get their feet over 7 but never in the trough.

8, the storm doors, connected by rope to pulleys at 9.

These troughs will last 10 to 20 years and will save enough feed in one year to pay for themselves, and they are a genuine treasure to have.

Skids can be put under the troughs to move them around with, and shorter troughs can be made for smaller num-bers of hogs. Forty pigs can easily use one trough until old enough to separate the sexes, when 20 to a trough is the proper thing no matter how large or vicious they get.

As a sanitary measure, there is nothing to equal it. The hinged top and side boards need not be used only in winter time, as storm water can be drawn off through a hole bored in bottom of trough in which a plug is in-

Build one trough and use it awhile 4 the cross pieces at top of partition some more. I will try to get up to Topeka this winter with a model of this

If I have not made myself quite clear, keep this article and write me about it and I will get our local carpenter to make a model and will send it to you C. O. D. J. CLARENCE NORTON. Moran, Kans.

Red Polled, the Dual Purpose Cow.

EDITOR KANSAS FARMER:—In your issue of November 13, page 1118, Farmer, Pomona, Franklin County, desires to hear from some one who has tested Red

hear from some one who has tested Red Polled cattle as dairy cattle.

I will give the amount of milk given by the 10-year-old Red Polled cow Sunshine Rose 2d 7560. This cow came fresh April 22, 1901. I allowed her bull calf to suck her until May 8, when I took him from her, putting him with another cow and milked her, weighing the milk carefully night and morning. From May 8, 1901, to April 12, 1902, she the milk carefully night and morning. From May 8, 1901, to April 12, 1902, she gave 8,372% pounds of milk, and gave 14 pounds per day, sixty-nine days before calving. She came fresh June 21, 1902. I allowed the calf to suck until July 1, when I took the calf from her, as before, and from July 1, to November 15, she has given 4,438 pounds. I had this milk tested but once, which was this milk tested but once, which was about the middle of the first period of lactation. It tested 4.2 per cent butter. Am sorry that I had not a tester so that the quality could be shown dur-ing the entire time. This cow's 1901 calf is a bull, and shared the milk of another pure-bred Red Polled calf about the same size and age. Sunghing's cale the same size and age. Sunshine's calf, when just a year old, after walking 2½ when just a year old, after walking 2½ miles, weighed 828 pounds. He took second prize as yearling at Topeka Exposition, in competition with the champiton 1902 herd of the United States, and first prize at Ottawa, Kans., fair, competing with the splendid herd of Geo. Groenmiller & Son, of Centropolis, Kans., where the Red Polls came under the adjudication of that excellent judge the adjudication of that excellent judge of bovine form, C. A. Stannard, who placed them according to beef points only. This cow, Sunshine, will weigh in flesh fully 1,500 pounds. Is she a duel purpose cow, or is there no such dual purpose cow, or is there no such thing as a beef and milk cow in one animal?

I also weighed the milk given last year by the Red Polled heifer, Beulth Bride-Rose 8th 14547, calved October 28, Bride-Rose 8th 14547, calved October 28, 1898. She came fresh April 19, 1901, being two and one-half years old. I milked her from May 8, 1901, to February 7, 1902, in which time she gave 4,918½ pounds of milk. Milk not tested for quality, but from the amount of cream that raised on it, the quality is good. This helfer came fresh again March 11, 1902, being dry thirty-four days. Began milking her March 27, and up to November 15, she has given 5,836 pounds of milk. This cow's sister won second prize at Topeka, being placed by Prof. D. H. Otis above the helfer which, the week previous won first prize and the week previous won first prize and junior female sweepstakes at the Nebraska State fair. These two cows were fed and cared for according to ordinary farm conditions, with no attempt to force, and that during the very trying season of 1901, being the hottest and dryest season on record.

Almost every one has read of the noted Mayflower 2d, the Red Polled cow who won second place in the Model Dairy test at the Pan-American Exposition, where fifty cows, of ten breeds, were tested, and out one cow, a Guernsey, having beaten her. Her record for twelve months is 10,458% pounds of milk, which made 547 pounds of butter. Who has not heard of the noted Popsey 3d, who has an official record of 3931/4 pounds of milk in one week; 17 pounds and 14 ounces of butter in one week, and who recently sold for \$1,125, while her 2-year-old bull calf sold for \$1,200?

Now let me say to Farmer, of Pomo-na, there are Red Polled cows not worth the salt they eat, as dairy cows. And so there are of all other breeds. Buy your bull from a man who pays attenyour bull from a man who pays attention to the milking qualities of his Red Polls, and a bull which comes of deep milking ancestry, and he will produce you heifers that will do you good. There is a tendency among some Red Polled breeders of the United States to ignore dairy quality. Moreover the dairy Red Polled stands no show of winning in the majority of American show rings. The American mind caters to the rotund form of the over-fed beef animal. In

Gennine stamped C C C. Never sold in bulk.

Beware of the dealer who tries to sell

"something just as good."

Secretary Coburn's report on Polled cattle (and I would advise your correspondent to get and read this work), the picture is given of the great English prize-winning Red Polled bull, Champion, who has recently been exported to Australia. Secretary Coburn says, "Our illustrations have been chosen to show the present highest type of Red Polled." In my opinion, Champion, if he looks anything like the picture, would not stand a shadow of a show of winning in an American show ring, because he is too much of a dairy type. Those who have Secretary Coburn's book should note the difference in type between Champion and Richland Boy 5th. The picture, although a poor one, of the lat-ter bull, shows him to be much stronger in beef points than the former. Richand Boy 5th, as well as his sire Dobbin, an all round beef bull, having won many prizes in American show rings, is proof of my assertion, that it requires a beef animal to win in American a. WILKIE BLAIR. Beulah-Land Farm, Girard, Crawford

Marshall County Hereford Sale.

The first annual sale of the Marshall County Hereford Breeders' Association has become history. In many respects it was a great event. Great in its immediate results of the beauty of the could be continued to the country of the cou

County Hereford Breeders' Association has become history. In many respects, it was a great event. Great in its immediate results. Great for the locality. Great for the breed. Greatest for its possibilities.

Marshall County has long been known as the Herefordshire of Kansas and as one of the best and richest stock counties in the west. Prior to this sale, this county was the home of more herds of pure-bred Herefords than any like area in the United States, so far as the knowledge of the writer goes. The quality of the stock here is of the best and the sale served to disseminate seed which will serve to form nuclei of many other herds in this and other localities. Prior to the organization of this association the breeders had been competitors with each other with but few buyers and a resulting low price to all. Since that time they have worked for the common interest and have practically doubled the price of their output, and the sale realized \$10\$ to \$15\$ more of an average upon the principal consignors expected.

It was a noticeable fact that not a single animal sold at this sale went outside of the State, while nearly 50 per cent of them went to breeders in Marshall and adjoining counties. The members of this association are the owners of excellent representatives of the get of such great bulls as Lamplighter, Ancient Britton, Corrector, Wild Tom, Java, Weston Stamp, Roseland and others. Heretofore they have only lacked the opportunity to make their animals known to the breeding world in order to assure their future success as breeders.

While the prices realized may not appear especially good on paper it must be remembered that many of the animals were too young for immediate usefulness. It is also true that some of the animals were ton young for immediate usefulness. It is also true that some of the animals were thin in flesh while none of them could be considered in show condition. It was a most important event, not only to the Hereford interests of the West but to all other pure-bred interests of the west

Thelma 126927, Geo. Heimrich, Green.... 80 Flota 69491, C. M. Burkett, Blue Rapids, 180 Marianna 66030, C. Brenninger, Frank-BULLS.

| 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | Milton 137550, B. M. Winter | 80 | Gold Standard 140409, W. F. Wilkerson, Success | 100 | Blocky Jim 2d 124372, H. H. Drake | 115 | Walter 136725, C. A. Johnson, Success | 100 | Great Heart. C. N. Burkett | 75 | Gay Lad 128934, G. L. Ruthstrom | 125 | Leonard 128801, John Guess | 75 | King 144984, C. A. Johnson | 15 | Bruce 147773, S. F. Paul, Blue Rapids | 180 | Climax 125363, Kelly & Currier, Cabbell | 76 | Benedict 142319, H. S. Finley | 110 | Keno 137276, Kelly & Currier | 70 | Warwick 134708, W. T. Erickson | 100 | Gervase 132196, Elex McCulloch, Irving | 90 | Sam 133273, F. L. Hunt, Waterville | 140 | Landis 136722, John Dawkins | 110 | Marc 125370, E. M. Ruthstrom | 55 | Joker 116438, Kelly & Currier | 150 | Saturn 138835 | Downing Bros | 145 | Endicot 147774, G. C. Rodkey | 200 | Fargo Boy 134703, Harry Orchard, Vermillon | 90 | Vick 133274, Jno. Guess | 90 | 90 | Vick 133274, Jno. Guess | 90 | 90 | Vignon 140134, Samuelson Bros | 115 | Silver Coin 124315, August Kuhn, Corning... 115 Kansas Britton 125367, Kelly & Currier. 65 Weston's Pride 128935, Fred Cockrell... 165 Lieutenant Golden 136113, Geo. Miller... 165

committed the price of their output, and the sale realized Bio to His more of an average upon the principable fact that not a single animal sold at this sale went outside of the control of the sale want outside of the control of th



Fleming's 3 are free if they fail.

REMOVE THAT SPAVIN. No matter what you have done or tried you can positively remove the spavin quickly and without injury with Fleming's Spavin Cure. One 45-minute application usually does it after all else has failed. Costs nothing if it fails. Cures Ringbone. Splint, Curb, etc. Our free spavin book will be worth dollars to you.

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Write today for circulars on any or all the above remedies. State which circulars are wanted.

FLEMING BROS., Chemists, 212 Union Stock Yards, Chicago, III.

would be hard to select a choicer collection of females than the Sunset Herefords offer on this occasion. Some are bred to caive within a few months, some have calves at foot and are bred again—in fact, all, with possibly two or three exceptions, will be bred to one or the other of the three great herd bulls, Saint Grove, the best son of St. Louis; his best son, Earl of Sunset Farm; or Quartermaster, a worthy son of Scott & March's Hesiod 29th and out of Brilliant, a granddaughter of Anxiety 4th. The quartette of imported cows deserve special mention. One is Snowflake, by Argon, a half-sister to Majestic, the bull now at the head of the Armour herd. Another is Gipsy Jane, by Rory O'More—a grandson of the grand old bull, Maidstone—and she s out of Gipsy Countess, one of the best cows the late K. B. Armour ever imported. There is Lena 2d—a cow of great individuality—by Pagan, and out of a Statesman cow. Another is Kenswick Beauty, a 2-year-old cow with calf at foot by the Earl of Sunset Farm, and she is a great cow or rare merit. She is by John Bull, a son of Rupert, and is out of Kenswick Hartington 2d, the grandest cow in the Sunset herd. Five daughters of imported Soudan, a bull sold by the late K. B. Armour for a fancy price to head the old Scott & Whitman herd, are included. These helfers will bear the closest inspection. They are individualis of unusual length and depth of carcass; big boned, straight hind legs, and beautful heads and horns. They are good enough for any company and are all safe in calf. Beatrice Beauty 4th, by Hesiod 30th and out of Beatrice Beauty 3d, a line-bred daughter of Beau Real's Rudolph, is a charming specimen of individuality. She is rich in color, deep in the flank, has a great back sustaining a wonderful breadth of loin. She is also safe in calf. Two sets of twin helfers are included, both of which Dr. Logan guarantees safe in calf. One pair, Francis and Mary Lena, are by imported The Strand. and out of Guent Ma, one of the few living daughters of Frince Edward. This grand breed

Cattle Sales at the International.

During the week of the International Live Stock Exposition, at the Union Stock Yards at Chicago, on December 1 to 6, 1902, there will occur a number of notable and representative sales of the principal beef breeds of cattle, and the following gives some interesting facts concerning this an-

THE HEREFORDS.

There seems to be a slight misunderstanding on the part of some members of the American Hereford Breeders' Association as to the date of their annual meeting. In the notices sent to each member the date is correctly given as the evening of December 3, Wednesday evening, of the week of the International Live Stock exweek of the International Live Stock exposition. Some breeders have mistakenly read this as the 30th. The meeting will be held in the assembly hall on the third floor of the new Pure-bred Live Stock Record Building at the Stock Yards. The uptown headquarters for the Hereford breeders will be the Great Northern Hotel, where good rooms can be obtained at \$1.50 and \$2.00 per day. The week will undoubtedly be an eventful one for the Hereford people. There will be a much larger display of Herefords in the show ring than has heretofore been made at Chicago. The sale offering of seventy females and thirty buils from forty of the leading Hereford herds is perhaps, the best offering of show and breeding stock that has ever been made under the auspices of the Association. Hereford breeders will find much to interest and benefit them during the week, and should attend the meeting, the show and the sale if possible.

THE ABERDEEN-ANGUS.

and the sale if possible.

THE ABERDEEN-ANGUS.

The catalogue of the Angus sale to be held at Dexter Park, December 2 and 3, reveals the fact, that the twenty-nine breeders contributing thereto, are selling the best they possess. No sale of this kind has ever contained so many superior specimens. The Messrs Pierce and Judge John S. Goodwin contribute females in calf to the celebrated Prince Ito. Mr. Goodwin sells the imported Erica bull, Enstamp and the Messrs. Pierce a Blackbird and Antelope that are desirable as herd headers. W. A. McHenry, Denison, Iowa, parts with Royal Laddie, a full brother in blood to the champion Rosegay and sire of the sensational Bobbie Dubbs. Anderson & Findlay, Lake Forest, Ill., include representatives of the Erica Coquette and Pride strains, topped with the blood of their imported bulls Elberfeld, Pacific and Monitor of Glamis. Chas. Escher, Jr., Irwin, Iowa, sells imported and American bred females of choice quality and breeding. A. C. Binnie, Alta, Iowa, sells the yearling Pride show bull Paragon of Alta and three exceedingly choice Pride and Drumin Lucy heifers imported from Scotland this year. E. Reynolds & Son, Prophetstown, Ill., sell the show bull Ida's Eclipser and the prize-winning females May Escher, Ida Blackbird 2d, and Zara Palmer. Cantine Bros. & Stevenson, Holstein, Iowa, part with the imported Erica helfer Erica 3d of Woodhead; the Pride helfer Pride of Cherokee in calf to the fine imported bull Edward R; the Queen mother helfer Queen of Cherokee, by Longbranch Rosegay, a brother in blood to the champion Rosegay and the young bull. Poughkeepsle, a double Pride that fills the requirement of a high-class Angus bull. William Cash, Williamsburg, Iowa, Includes the Lady Ida helfer Longbranch Ida; the Montbletton Fancy cow Eva Estill by Imp. Prince of Kerrera; Vesper 2d, a daughter of Imp. Jim Jams, and Young Veteran, the first son of the Blackbird bull Woodlawn that has been, we believe, exposed at auction. Each consignor contributes attractive animals to the sale. Mr.

THE SHORTHORNS.

their superior merit.

THE SHORTHORNS.

It is seldom that breeders of Shorthorns have the opportunity of attending a sale of so many cattle of exceptional merit, drawn from so many leading herds of the world and representing the best blood of the past and present. These cattle are the product of the brains and skill of a long line of distinguished breeders who have made Shorthorns the most cosmopolitan and the most admired breed of cattle in existence. This solid foundation so carefully and splendidly laid by thoughtful breeders of the past is a safe one on which cattlemen of to-day can build with perfect confidence of success and reward. If they build wisely. Examination of the catalogue will show the excellence of breeding, and the following statement will show the wide range from which these cattle have been drawn: Seventeen were bred in Scotland and 2 in England, 13 in the province of Canada, but all are now owned by American breeders, while the remaining 45 represent the skill of various leading breeders of our own country. Parties wanting imported cattle will have a very superior lot to select from, while the home-bred cattle will be found good enough to suit the most exacting. About one dozen calves will be sold with dams, and several cows are due to calve soon to the service of the hest bulls in America. The following is a list of consignors: I. M. Forbers & Son. A. G. Leonard, C. C. Bigler & Sons, C. S. Barclay & Son, E. S. Donahey, N. P. Clarke, F. A. Edwards, W. I. Wood, W. O. Minor, T. J. Wornall, George Bothwell, J. A. Gerlaugh, Kellogg Stock Farm Co. Purdy Bros., George Allen, C. Hintz & Son, E. R. Baghy, T. C. Robinson, Moorman & Miller, William M. Randel & Son, J. F. Huckleberry, U. Z. Green, and Allen Varner. These breeders unite in a cordial invitation to all admirers of good Shorthorns to attend this sale, which will begin Wednesday at 1 p. m., December 3, 19°2, and will be concluded Thursday forenoon, December 4.

THE GALLOWAYS.

On Friday, December 5, 1902, at the Union Stock Yards, Chicago, fifty high-class imported and American Galloways will be sold by the following members of the American Galloway Cattle Breeders' Association: Brookside Farm Co., Ft. Wayne, Ind.; L. L. Bullock, Nodaway, Iowa; C. E. Clarke, St. Cloud, Minn.; E. L. Davis, Davisburg, Mich.; T. J. Davis & Son, Triumph, Ill.; J. R. Hodge, Mechanicsburg, Ohio; Lloyd-Jones Bros., Burford, Ontario; Wm. Martin, Winnings Conda. umph. Ill.; J. R. Hodge, Mechanicsburg, Ohlo: Lioyd-Jones Bros., Burford, Ontario; Wm. Martin, Winnipeg, Canada; B. B. Richmond, Columbus, Wis.; A. M. & R. Shaw, Brantford, Canada; O. H. Swigart, Champaign, Ill.; E. L. Wilks, Blair, Ontario. The number of imported cattle offered in this sale, is such as to make this the largest sale of imported cattle ever held by the Association. The excellent quality and individual merit of the animals offered, both imported and American-bred, makes this a rare opportunity for breeders to secure exceptionally good Galloways for foundation stock or to improve your herd.

The J. F. True & Son Combination Sale.

The J. F. True & Son Combination Sale.

On Saturday, November 22, at Wellington, Kans., was held a combination sale of pure-bred Shorthorns from the herds of J. F. True & Son, Perry, Kans., and of Preston Wyckoff. Corbin, Kans.

A general average of \$106.50 was realized on the sale of a total of 74 animals which brought \$7,880. Col. J. F. True & Son sold 64 head at a general average of \$109; 33 of these were females which averaged \$127.30. and 31 of them were bulls which averaged \$90. Preston Wyckoff's consignment consisted of six females which brought an average of \$10.66, and four bulls which averaged \$75, making a general average for the ten of \$91.

The top price of the sale was brought by

the ten of \$91.

The top price of the sale was brought by Carrie 6th, a Waterloo Duke of Hazelhurst cow out of a Lord Mayor dam, who went to Preston Wyckoff, Corbin, Kans., at \$240.

The top price of the sale was brought by State of registered Percherons to be sold at Kanthe top price for bulls was brought by sas City, Mo., December 19, 1902. It is the

Rosa Duke 2d 190529, who went to E. E. Sheetz, Braman, Okla., for \$150.

The complete list of purchasers is as follows:

Rosa Duke 3d 199629, who went to E. E. Sheetz, Braman, Okla., for \$150.

The complete list of purchasers is as follows:

T. E. Wooderson, Renfrow, Okla.; J. H. Hefferley, Anson, Kans.; H. E. Silliman, Winfield; S. R. Myers, Enid, Okla.; E. H. Glover, Renfrow, Okla.; W. A. Burford, Belle Plaine; C. D. Evans, Clyde, Okla.; A. W. Roberts, Ponca City, Okla.; H. Hemphill, Hennesey, Okla.; Harry Burline, Caldwell; O. R. Smith, Belle Plaine; W. H. Wheelock, Marian; J. F. Stodder, Burden; F. O. Watkins, Enid, Okla.; M. F. Yale, Millan; Fred Fangeman, Newton; J. C. Schwyhart, Belle Plaine; D. M. LeMarr, Braman, Okla.; F. C. Wiltberger, Winfield; Edward Cook, Freeport; Preston Wyckoff, Corbin; J. P. Cornelius, Braman, Okla.; Chas. M. Baird, Arkansas City; Clay Harrington, Clearwater; John D. Craft, Peck; John Cottingham, Winfield; J. E. Webb, Wellington; H. M. Arnett, Arkansas City; E. E. Sheetz, Braman, Okla.; J. D. Brewster, Belle Plaine; A. J. Arnett, Arkansas City; Chas. Shafer, Milan; F. J. Wolff, Conway Springs; E. W. Frazier, Iuka; John Massey, Wellington; Jake Alderson, Pond Creek, Okla.; Jeff Aubrey, Wellington; A. C. Barner, Belle Plaine; F. C. Watkins, Enid, Okia.; J. H. Tennery, Belle Plaine; Oscar Wolff, Renfrow, Okla.; valter S. Murray, Wellington; Jasper Williams, Rome; Wm. Fox, Braman, Okla.; W. S. Nelson, Wellington; W. H. Jeffreys, Blackwell, Okla.; E. G. Barnard, Hennessey, Okla.; John Leight, Portland; G. P. Miller, Oxford; J. W. Wartick, Portland; G. P. Miller, Oxford; J. W. Wartick, Portland; G. P. Miller, Oxford; J. W. Wartick, Portland; G. D. Miller, Oxford; J. W. Wartick, Portland; J. E. Webb, Wellington; L. Irvin, Wellington; Thos. Potter, Stillwater, Okla.; Geo. Miller, Mulvane.

Gossip About Stock.

IMPORTANT SALES NEXT WEEK.

December 4 and 5—International Hereford deen-Angus Sale, Stock Yards, Chicago.
December 2 and 3—International Aberdeenn-Angus Sale, Stock Yards, Chicago.
December 3 and 4—International Shorthorn Sale, Stock Yords, Chicago.
December 5—International Galloway Sale, Stock Yards, Chicago.
December 3 and 4—International Berkshire Sale, Stock Yards, Chicago.

A. G. Lamb, of El Dorado, Kans., who recently advertised a sale of Poland-Chinas, was unfortunate in having a rainy day for the sale, but sold fifty-one pigs at an average of about \$14, and is in no wise discouraged by the result of this sale and says ne expects to hold a big sale another year about October 1.

C. A. Johnson, Success, Russell County, Kans., who bought a number of bulls at the Marshall County Hereford sale, a graduate of the Kansas State Agricultural College, who in making application of the training received at his Alma Mater and is also making money. With a combination of a good Russell County farm, a bunch of good Hereford cattle, and a wife who is a graduate of the Agricultural College, it would be remarkable if he did not succeed.

It is now definitely settled that the breeders' combination, or State Berkshire sale, will be held at Topeka on January 23, 1903. This sale will consist mainly of bred Berkshires and will be held during the week of the Kansas Mid-Winter Exposition at Topeka. The consignors to this sale listed so far are: Manwaring Bros., Lawrence; C. A. Stannard, Sunny Slope, Emporia; Will H. Rhodes, Tampa; E. W. Melville, Eudora; W. H. S. Phillips, Carbondale; O. P. Updegraff, Topeka; and G. W. Berry, Topeka.

Following the Hereford sale at Trenton, Mo., on Thursday, November 20, came the sale of Shorthorns on Friday afternoon. The attendance was large and the new pavilion which has a seating capacity of 800 was not large enough to accomodate the crowd. Fifty-three head of Shorthorns brought \$5.135, average \$96.88. Thirty-six females brought \$3,655, average \$101.53. Seventeen bulls brought \$1,480, average \$37.06. The top of the cow sale was brought by Waterloo of Hill farm 6th and hiefer calf who went for \$400. The top of the bull sales was \$250, brought by Dewey 130630.

Geo. W. Berry, Station A, Topeka, who recently began advertising pure-bred Berkshires, reports recent sales as follows:

"Sales of Berkshires from Spring-Brook Farm include the fine boar Royal II to Morgan Powell & Son, Hardy, Neb. This pig was farrowed April 5, and five pigs of the same litter, two boars and three sows, now average 225 pounds weight. We have also sold the Silver Tips boar Silver Crown II. He is one of the litter including four boars and four sows farrowed April 25, now weighing over 200 pounds average weight. These litters are wonderfully uniform and possess rare finish."

The magnificent new sale pavilion at Trenton, Mo., was dedicated on Thursday, November 20, with the sale of sixty-one registered Herefords contributed by the members of the North Missouri Breeders' Association. The White-faces ranged in age from 9 months to 12 years old and made a general average of \$110.57. The thirty-seven cows and helfers averaged \$130.27, and twenty-four bulls averaged \$1.04. Mr. O. Harris, Harris, Mo., contributed three cows to this sale which topped the sales at \$325 each for two of them and \$300 for the other. The top bull sale was \$205 paid for a 7-year-old Corrector bull.

property of Hanna & Co., Palo Duro Stock Farm, Howard, Elk County, Kans., to whom requests for catalogues should be sent. The offering consists of 32 head of stallions, brood mares and filleys and five jacks. It is a dispersion sale of his entire herd, which represents the results of a quarter of a century of careful selection and breeding from the best sires and dams obtainable, regardless of cost. The foundation stock was imported from France by Geo. S. Hanna, of Bloomington, Ill., and no expense was spared to obtain mares of the highest individuality and breeding. The entire herd is bred in the best black strains and in the line represented by the great prize-winners of France and America.

The farm of W. L. Reid, whose advertisement on Poland-Chinas appears in breeders' directory, is located four miles north of Indian Creek school house, in Shawnee County. Mr. Reid, although comparatively a new breeder, had the good judgment to lay the foundation of his herd in such animals as are in popular demand. His aged boar Shawnee Chief, by Black Queen's Chief, by Chief Tecumseh 2d, dam by Hadley, Jr., is exceptionally good, with strong legs and other marks of a vigorous constitution. The young boar in service was sired by Chief Perfection 2d, dam Chief Tecumseh M., by Chief Tecumseh 2d. Mr. Reid has a number of glits for sale that will be bred next month to Shawnee Chief, these glits are the best of his herd and possess merits that will please any breeder. Farmers wanting the best should open an early correspondence with Mr. Reid.

an early correspondence with Mr. Reid.

The first combination sale held by the Cooper County, Missouri, Shorthorn Association was held at Bunceton, on Wednesday, November 19. A good crowd was present and the sale was considered a satisfactory one. Forty head of Shorthorns were sold for \$5,115, average of \$128. Of these, twenty-six were females which brought \$3,490, average \$134.23. Fourteen bulls sold for \$1,630, average \$134.23. Fourteen bulls sold for \$1,630, average \$116.42. The top of the sale was brought by Grand Count, a charming Rose yearling bull by Lavender Viscount, consigned by C. E. Leonard & Son. Of course he came to Kansas. A. L. Sponsler, of Hutchinson, paid \$500 for him. The highest priced female was Craigs 22d, a 6-year-old Alice Maud cow by Sharon Airdie from the herd of Sam W. Roberts. She brought \$400.

President Rowland, of the American Galloway Breeders' Association, recently cabled an invitation to Dr. Gillespie, the Nestor of Scotch Galloway breeders and secretary of the Highland Galloway Society, to come over and judge the Galloway classes at the International Live Stock Exposition. Scotch and American Galloway standards are materially different, and there is interest felt in knowing how a high Scotch authority will the the ribbons on American Galloways. O. H. Swigert, of Champaign, Ill., is credited with saying that Dr. Gillespie's appearance as judge at the International will mean much for the Galloways. "I am willing to take a licking to have such a man pass judgment on my cattle. He is the best living authority and if we can get him here it will be a feather in our cap."

While the modern breeder is the man who develops the highest type of the animals which he breeds, it is the farmer who uses them. A criticism is sometimes raised that breeders of the beef breeds ignore the milking qualities of their cows. On some of the greatest beef-producing farms the dams with famous pedigrees are unable to raise their own calves and nurse cows must be resorted to. It is claimed that the average farmer can not afford the extra nurse cows nor can he afford to raise cows that can not raise their own calves any more than dairymen can afford to raise calves that can not be sold for beef. This is one of the strong pleas made by the breeders of Red Polled cattle, and together with the rapidly increasing demand for this breed seems to supply evidence that there is a real place for the dual-purpose breeds in the economy of Western farm life.

McLaughlan Bros., of Columbus, Ohio, and Kansas City, write: "We received a cable message from Mr. James McLaughlin, Thursday, in which he said that he sailed that day on the Mesaba with one of the largest importations of Percheron and French Coach Stallions that ever crossed the Atlantic Ocean and every horse well. He should arrive home with them about December 2. During the past year we have saved out of the three hundred stallions imported by us, some twenty odd of the best of them. These horses will be shipped from here Friday night, November 28, in two express cars, consigned to the Union Stock Yards, Chicago, where they can be seen at the International Exposition. These horses have won all of the first prizes with a singe exception, and in fact nearly all of them are prize winners at the leading Percheron shows in France this year."

this year."

One of the best herds of Poland-Chinas that the writer has had the pleasure of seeing belongs to G. E. Fuller, of Morrow-ville, Kans. He has a large number of sows and glits of his own breeding which were sired by Onward Perfection 59045, a son of Chief Perfection 2d 42559, out of Last Price's Daughter 155644, by Ben Wilkes 43477 and out of the One Price sow Last Price. These females are all bred to the great young boar Sunshine Success. He is by Ideal Sunshine 37885, by Ideal Black U. S. 29509. His dam was Ideal I. L. 123822, by Tom Chief 44589. Sunshine Success has the distinction of being the only Ideal Sunshine boar in the State of Kans. In addition to the glits and sows menitoned above, he has a number of yearling sows by Kansas Union 19070, Chief's U. S. and Tecumseh Chief 2d. These latter are brothers out of a Black U. S. sow. This herd is in surprisingly good condition and stands to-day one of the best herds of Poland-Chinas that the writer has seen in Kansas this year.

The National Druggist for November says: "There is much said, and particularly at this time of the year, in the agricultural and live-stock publications about creosote, or coal-tar preparations. Oftentimes the crude combinations of carbolic acid are recommended. Then again, solutions of creosote are suggested. Among those who are familiar with the use of these combinations, as utilized in the veterinary practice of medicine, there has been

Talk No. 16.

LENSES.

In buying hats, gloves, or shoes it doesn't make so much difference if you get a bad article; it will soon wear out and you know better next time. A bad lens will wear out nothing but your eyes, often without your knowledge. You can not get new eyes. I believe that I am thoroughly informed upon all grades and qualities of lenses. I am particular in buying to select only the very best that is made. Every pair of lenses that I sell undergoes a careful inspection and thorough test before leaving my hands. I am equally particular that the lenses fit your eyes. It is to this that I give my most careful attention. I have a consulting room built especially to my order and am thoroughly equipped for measuring every defect and selecting lenses especially adapted to your condition. A carelessly chosen lens is one hundred times worse than none.

My exclusive attention is given to fit-

DR. C. BENNETT,

Registered Optician.

730 Kansas Ave. : Established 1879.

tested a new solution called zenoleum. This is a carefully and scientifically compounded American preparation, economical in its cost and thoroughly efficient in its operation. It is American through and through, and redounds much credit to its manufacturers. In cases where coal-tar or creosote preparation are suggested, zenoleum can be used with absolute safety, as it is not poisonous and as it makes a perfect emulsion, it is easily accessible for dispensing purposes. The manufacturers, Zenner Lisinfectant Company, of 6i Bates St., Detroit, Mich., will be glad to send literature and prices."

On Tuesday, November 18, Mr. G. W. Priest, of Meriden, Kans., held his first annual sale of Poland-China hogs. The auctioneer was Mr. W. O. Warner, of Topeka, Kans., who certainly did very creditable work. The list of buyers is as follows: John Wilkerson, Topeka; W. M. Ream, Topeka; Chris Martin, Meriden; W. M. Ream, Topeka; Chris Martin, Meriden; W. A. Fleischer, Hoyt; E. R. Barnes, Meriden; John Dauber, Meriden; G. W. Chase, Mayetta; W. F. Collier, Meriden; Jas. Daveney, Meriden; Henry Edwards, Rock Creek; F. Eberweim, Hoyt, D. S. Rice, Hoyt; Ed. Dickley, North Cehar; John Russell, Meriden; J. T. Palmer, Meriden; J. F. Kelm, Osawkie; W. L. Reed, Topeka; C. Simpson, Meriden; Golden Cunningham, Meriden; W. B. Cunningham, Elmont; and Aug. Leadtka, Rock Creek. The highest price paid was \$19 by John Wilkerson for a March boar. A few grade sows with pigs were also sold the top price for which was \$30.50. The sale as a whole was a success, though on account of the crowd being small the prices paid were not as large as they should have been.

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Duroc-Jersey breeders will be interested in knowing that W. E. Mason, Haddam, Kans., has bought a new farm in another part of the State and intends to close out his entire herd of Durocs, which he has been breeding for the past ten years, in a public sale on December 10, 1902. He will offer forty gilts and ten yearling sows, mostly bred, and a few boars not akin to the sows in this sale. The foundation stock of this farm is almost entirely of Gilbert VanPatton's breeding. This will be a sale in which everything on the farm will be offered and at which breeders of Durcc-Jerseys as well as farmers who merely wish to secure good hogs can be satisfied. The yearling sows in this sale are a splendid lot and trace directly back to some of the best show hogs in Nebraska. These sows will be bred to Mason's Perfection by Liberty Perfection 11195, out of Red Belle 15436, by Shinn's Glory 2855. Some of tnem will be bred to Red Lad, by King L. 7997, out of Grace N. 17480, by Kansas King 4939. This sale will prove a snap for buyers of red hogs. Breeders should go to Haddam, Washington County, Kans, on the B. & M., where they will be met by carriages and transported to the farm, where a free lunch will be served just prior to the opening of the sale. Those who can not attend in person may send bids to W. E. Mason, Haddam, Kans.

For thirty years past the Gifford Shorthorns have been famous, and the Gifford Bros., who now own and manage this herd, have reason to feel proud of a later success attained by it. This breeding farm has always used good bulls, prominent among which was Red Knight 120752, and it is now proposed to offer a draft of thirty cows and heifers and fifteen bulls in a public sale to be held at Manhattan, on December 16. This will be distinctively a Red Knight sale, and will be a remarkable one owing to the even quality and excellence of the whole consignment. The writer has never visited a herd of sale cattle that was so uniform in its excellence as the one now offered by the Gifford Bros. All of the thirty females except one are bred to the pure Cruickshank bull Red Gauntiet 149507 or the pure Bates bull Rose Duke 155031. All the cows and older heifers are due to caive early. This is a red herd of cattle and includes Flat Creek Young Marys, Josephines, Zelias, Goodnesses and other standard families. Rose Duke is now 3 years old and weighs 2,100 pounds in ordinary fiesh. The Giffords have had two crops or calves by him and he is guaranteed in every particular. He should go to head somebody's herd. Remember that you will see on this occasion the most uniform lot of excellence that will be found in any sale in Kansas this fall.

Since the American Royal Show, breeders

Since the American Royal Show, breeders of Berkshire swine report an unusually brisk sale, and as there is a limited supply

(Continued on page 1172.)

Borticulture.

Planting Seed of Forest Trees

How to collect and plant tree seed, is a question that is interesting a great many farmers in Oklahoma. The planting of trees for shade, wind-breaks, fire wood, posts, and fencing material is be-coming quite common in the prairie districts. The trees desired for such planting can hardly be purchsed of nurseries but can be raised on the farm at a reasonable cost. Most of the trees used for this kind of planting bear seed while quite young, and the small plantings that were made early in the old part of Oklahoma are now bearing seed enough to supply the farms with plenty of young trees. The black locust and catalpa bear young and the seed is easily gath-The elms do not bear so young as the two trees just named, but by selecting the seed from the native white elm, that grows along the banks of the small streams, most farmers can secure plenty of seed at small cost. The box elder, ash, and hackberry are all native trees, and the seed can be secured with little trouble.

Tree seeds should be gathered as soon as ripe. The squirrels, mice, and worms soon destroy a large part of the seed if it falls to the ground, and some kinds of seeds will not grow well if thoroughly dried. Most of the seeds are easier to gather from the trees than from ground several weeks after they have fallen. The seeds that mature before mid-summer, should be gathered and planted as soon as ripe, as few of them will grow if kept till the next spring before planting. The late maturing seeds may be stored over winter and planted in the spring. The seeds with soft shells or coverings should be stored in a cool, dry The nuts and seeds with hard dry dry coverings should be planted in the fall or stored in boxes, sand, or moist soil out of doors. Freezing and thawing these seeds during winter helps to break the shell.

Hard shelled seed may be planted in the fall or early winter, if the land is well drained, but if planted on wet land they are liable to rot. Moles and field mice will sometimes dig out some of the seed, but if the land is free of grass and litter, little harm will be done. This will save the trouble of storing, and the planting can be done when there is less press of labor by the regular farm work. The seeds should be covered with about two or three inches of soil. It the seeds are stored dry over winter they should be soaked in water for two or three days before planting. Pouring hot water over the seeds will help to soften the shells. The light, soft-shelled seed, like the catalpa, should be planted in early spring and should not be planted any deeper than is necessary to place them in moist soil.

The soil should be well prepared, and should contain a good supply of decaying vegetable matter, which may be supplied in form of well-rotted manure. The seed of slow-growing trees, like pines and cedars, should be planted in a seed bed where they can be shaded during the first one or two summers. The seeds that are planted in midsummer may also be planted in a bed, and then the little trees can be set in the nursery row the following winter. The seeds that are planted in the beds should be planted in rows about eighteen inches apart and thick enough to have the plants about two inches apart in the row. These seedlings require very close attention and good care to bring them through the first summer.

The seeds of the more rapidly growing trees may be planted in nursery rows, and the young plants cultivated there until large enough to set in the permanent planting. The seeds should be drilled in the rows so the plants will stand from four to eight inches apart in the row and the rows about three feet apart. The trees in the nursery row must be well cultivated and cared for.— Press Bulletin Oklahoma Experiment

[In gathering catalpa seeds it is extemely important to secure the true Speciosa variety. Others bear seeds more abundantly, but no other is as valuable the the Speciosa. It is a more rapid grower and produces a better wood than Through hybridization the others. many varieties of catalpa have come into existence. The speciosa is of a more upright habit than most of the others, and is a more robust grower. Its seed-pods are much larger in both diameter and length than those of other varieties. The seeds are also larger. But only observation of the characteristics can enable one to determine the imbedded, to his underclothing and thus Speciosa with certainty. Now is the hatched them out. time to gather catalpa seed.—Editor.]

HER UNCLE'S

This Young Woman is Glad She Complied With It.

There is a woman in New Hampshire who can congratulate herself on complying with a request of her uncle. She is Mrs. Ella Chapin, of Claremont. Not long ago she contracted anæmia was in a miserable condition till, at the request of her uncle, she took Dr. Williams' Pink Pills for Pale People. What this wonderful remedy did for her is best told in her own words:

"From long and constant caring for my sick mother," she says, "my system became all run down, and, in the fall of 1897, I realized that I was in a very poor state of health. I was neryous and my blood was thin and poor. I had dizzy spells and severe headaches, had no appetite and became so weak that I was unable to do anything. The slightest exertion made me short of

"This state of affairs continued for a year and I grew constantly worse. My uncle heard of Dr. Williams' Pink Pills for Pale People at Springfield, and was told of some remarkable cures they had accomplished, so he got me a supply. began taking them and in less than two weeks I could see a change for the bet ter. I continued their use and in a short time was cured."

Mrs. Chapin suffered from anæmia, disease caused by an actual deficiency of the blood and a watery and depraved state of that fluid. It is characterized by a pallid complexion, pale lips, dull eyes, tongue and gums bloodless; short ness of breath upon slight exertion—especially upon going up stairs; palpita tion of the heart, feeling of impending death, weakness, loss of appetite and ambition. If left to itself it is apt to result in decline and death.

The one remedy that has proved itself specific for this disease is Dr. Williams' Pink Pills for Pale People. These pills, taken in increasing doses, will never fail to effect a cure if used persistent ly for a reasonable length of time. They are also an unfailing specific for such diseases as locomotor ataxia, partial paralysis, St. Vitus' dance, sciatica, neuralgia, rheumatism, nervous headache, the after-effects of the grip, palpitation of the heart, pale and sallow complexions and all forms of weakness either

in male or female.
Dr. Williams Pink Pills for Pale Peo ple may be obtained at all druggists, or direct from Dr. Williams Medicine Company, Schenectady, A. Y., 50 cents per box; six boxes for \$2.50.

Fruit Parasites and their Destruction.

The fruit growers of California willingly acknowledge their great obligation to the entomological department of their university for the success with which the ravages of fruit pests in that State have been diminished if not total ly prevented. To the scientific investigations of the faculty of that institu-tion is due the general immunity from severe financial loss which the orchardists of the State enjoy.

No class or variety of fruit, the cultivation of which has been attempted in California, ever reached the period of successful propagation than some new species of destructive insect pest instantly appeared to prevent it. This fact is true in all localities. The orange, for instance, could not have been suc-cessfully raised in California, but for the introduction of the Australian lady bug, which feeds upon the orange scale. fact every other fruit known to the coast, each developed a natural enemy which would have destroyed it but for the successful efforts of the university entomologists in combating it. In some portions of the State, notably in Placer County, a new specimen of moth developed which proved so destructive that a loss of 50 to 60 per cent in the peach crop was suffered. Around Newcastle the direct financial loss in the peach crop alone is estimated at \$1,373,000 in the past four years.

The University of California was appealed to, and Warren T. Clarke, assistant entomologist, was sent to investigate. He was successful in his search, and returned with complete data of the habits and life history of the worm and methods of propagation. Professor Clarke, in order to learn the characteristics of the new species of insect which was doing such immense damage, fastened twigs, in which the eggs

From the knowledge thus gained, Pro-

fessor Clarke was enabled to devise a means for the extermination of the de-structive pest. The loss of fruit was reduced in the current year to a maximum of one and one-half per cent.

Early Sweet Peas.

For the earliest sweet peas prepare the ground and sow the seed early in November for the northern localities; farther south the sowing may be done later—any time before the ground freezes to hard to work easily. Choose a warm, sunny location, sheltered from west and north winds. Have the rows west and north winds. run east and west. Spade the ground deeply, working in a supply of well-rofmanure and top-dress with airslakeed lime and wood ashes, one quart of the former to four of the latter for fifteen feet of double row. This should be thoroughly worked into the soil. Make two trenches four or six inches apart and three inches deep. In the bottom of trenches sow the seed very thickly, not more than an inch apart, as many will fail to grow. Cover the seed with soil and firm with a small board. The entire surface of the soil should then be covered with manure or coarse mulch to prevent deep freezing. Remove the mulch early in the spring and rake the entire surface of the bed as soon as it can be worked. This will let the sunshine and air get in their work and start the young seedlings upward in quest of light.

Nature sows most of her seed in the autumn, and we may follow her lead with many varieties. If we prepare the beds and plant the seeds, care must be taken not to do the work too early, otherwise the seed will start growth before freezing and the young plants will be cut off by winter's icy breath, if we go strictly "accordin' to natur" and simply scatter the seed on the surface, there is little danger of its governation. there is little danger of its germinating before the proper time, for it must be first carried down into the soil by the action of rain and frost. Nearly all hardy annuals do better and start ear-lier when fall-planted. Those classed lier when fall-planted. Those classed as "half hardy or tender," of course, will not flourish under such treatment. -Up-to-Date Farming and Gardening.

Propagating Roses.

Considering the ease vith which the Indianapolis, Ind. work may be done, it is strange that so few people attempt to propagate roses. There is no great mystery surrounding the work; nor is it necessary to do the work in a greenhouse. Take cuttings from medium ripe wood, severing them just below an eye or bud. Insert them in clear sharp river sand so there will be at least one eye beneath the surface. Keep the soil constantly moist. A glass tumbler or fruit jar may be turned over the cutting, or a number of them may be covered by a bell glass. Another good way is to sink a box in a sheltered corner of the garden, fill it with clear sand and put in cuttings of the roses and any hardy shrubs you may want to increase your stock of. Have the box slightly tilted toward the south and cover it with any old window sash you may happen to have; water whenever necessary to keep the cuttings from drying out. When cold weather comes on bank up around the box and provide a board cover for the glass. By spring the cut-tings will be nicely rooted and may be put in permanent quarters.-Exchange.

President Roosevelt spent several days hunting bears in the wilds of Mississippi. He got not a shot. Here is a newspaper's explanation: "My dear, I newspaper's explanation: "My dear, I don't know what we would do without the daily newspapers," said Mr. Mississippi Bruin to his better half. "If we



make our illustrations and drawings. They travel to the fairs and stock shows, to the best farms and orchards, in fact everywhere, to get interesting and timely pictures to illustrate

TWENTIETH CENTURY **FARMER**

This is only one of the many features which make it the handsomest and most interesting American farm journal.

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hadn't kept in touch with what was going on in the world through the medium of the press, Mr. Roosevelt might have taken us by surprise. But, thanks to the enterprise of the reporters, we were notified in ample time of his coming, and were enabled to make our arrangements for spending a few days at our country seat at our leisure. Truly the press is a great institution.

Cancer Cured by Anointing with Oil.

A combination of soothing and balmy oils has been discovered which readily cures all forms of cancer and tumor. It is safe and sure and may be used at home without pain or disfigurement. Readers should write for free book to the originators, whose Home Office address is Dr. D. M. Bye Co., Drawer 505,

Some men are so contrary they have to starve to get fat. Don't get in this class. Subscribe right now.

STARK best by Test.—78 YEARS. We PAY CASH WANT MORE SALESMEN PAY Weekly Stark Nursery, Louisiana, Mo.; Huntsville, Ala.

Can Sell Your Farm

W. M. Ostrander, 1786 N. A. Bldg., Philadelphia

Veneered Tree Protectors Cheapest and Best Ever Made. Millions in use everywhere. Send for testimonials and full description—lc each; 1,000 for \$6. Will last for years.

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

Hart Pioneer Nurseries,

ATLANTIC COAST LINE RAILROAD,

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

For a Beautiful as well as a Most Profitable Pasture sow BLUE GRASS. The genuine Kentucky seed is what you want, and from September until June is the proper time to sow. F pure seed of our own raising, and full particulars, write MT. AIRY SEED FARM, Paris, Kentucky,

J. G. PEPPARD

1101 to 1117 West 8th St. KANSAS CITY,

TIMOTHY



The Houng Folks.

Conducted by Ruth Cowgill.

THE CORN SONG.

Heap high the farmer's wintry hoard! Heap high the golden corn, No richer gift has Autumn poured From out her lavish horn!

Let other lands, exulting glean
The apple from the pine,
The orange from the glossy green,
The cluster from the vine;

We better love the hardy gift Our rugged vales bestow, To cheer us when the storm shall drift Our harvest fields with snow.

Through vales of grass and meads of Our plows their furrows made, While on the hills the sun and showers Of changeful April played.

We dropped the seed e'er hill and plain, Beneath the sun of May, And frightened from our sprouting grain The robber crows away.

All through the long bright days of June Its leaves grew green and fair, And waved in hot midsummer's noon Its soft and yellow hair.

And now, with Autumn's moonlit eves, Its harvest-time has come, We pluck away the frosted leaves, And bear the treasure home.

There, richer than the fabled gift
Apollo showered of old,
Fair hands the broken grain shall sift,
And knead its meal of gold. Let vapid idlers loll in silk
Around their costly board;
Give us the bowl of samp and milk,
By homespun beauty poured!

Where'er the wide old kitchen hearth Sends up its smoky curls, Who will not thank the kindly earth, And bless our farmer girls!

Then shame on all the proud and vain Whose folly laughs to scorn The blessing of our hardy grain, Our wealth of golden corn!

Let earth withhold her goodly root, Let mildew blight the rye, Give to the worm the orchard's fruit, The wheat-field to the fly;

But let the good old corn adorn
The hills our fathers trod;
Still let us for His golden corn,
Send up our thanks to God!
—John G. Whittier.

The Tramps' Thanksgiving.

* * The muffled tramp of years
Comes stealing up the slopes of Time
They bear a train of smiles and tears,
Of burning hopes and dreams sublime.

—James G. Clarke.

It was a biting cold afternoon. The snow creaked sharply under the run-ners of passing sleighs, and the frost on the windows refused to yield to the combined influence of the pale Novem-ber sunlight without and the furnace heat within. Norah, the pretty maid of all work at the Whiting's, coming home from a hasty trip to the grocer's for some article which she had forgotten to order, slipped in through the bulkhead instead of facing the flerce wind which came whirling round the corner. She did not stop to fasten the bulkhead. They seldom did fasten it. They were young people at the Whiting's, new to house-keeping, and it was one of their care-

"Now see them two poor b'ys," said Norah to herself, as she looked out of the kitchen at two tramps who were sauntering by. Even the cold did not make them hasten, but what use to hurry, since, as warm-hearted Norah said to her mistress a second later, 'There's no Thanksgiving for the likes

of them, poor souls, an' its biting cold!"
"Yes, it's hard," said Mrs. Whiting abstractedly. "And Norah, you had better
put the cold boiled ham and the jar of doughnuts in the store closet down cellar, until after Thanksgiving, to make room in the pantry for other things."

Mrs. Whiting was a kind-hearted young woman, but her mind was full of her first dinner party, to be given that night, and there really wasn't a corner of it left for tramps.

'I'll take these paper bags down, too,' said Norah, "they are just in my way here, and it's no use saving them."

The tramps had looked at Norah as she dodged in through the bulkhead, but exchanged no words about her, and plodded wearily on. The sun dropped down out of sight, and the short winter twi-light deepened into night. The wind went down, but it was still bitterly cold, and the two tramps wandered into the ranway station to get warm. There they stayed until after the last express train had thundered by.

"Sorry to turn you out, boys," said the kind-hearted old station master, "but I've got to leave now. If I just had a he said, reflectively, "but I'm a bachelor, and the old lady where I board

-well she's a cranky one." "It's all right, mate—thank you just the same," said the elder of the two. "We'll get on."

The station master looked after them as they stepped outside the circle of the electric light and were swallowed up in

the blackness beyond.
"Them ain't no common tramps, now," he said to himself. "Young, too. That little one now. He ain't mor'n seventeen—just a boy. Too bad, too bad."

The two tramps plodded wearily back over the route they had come. The houses were all dark. There were long stretches of blackness between the scattered street lamps that seemed colder to the poor fellows just by reason of the absence of light. They turned up the collars of their threadbare overcoats, and thrust their hands deeper into their pockets.

"I can't stand this much longer," finally gasped the younger, with chattering

His companion looked about him. They were opposite the Whiting house and a thought struck him. He remembered seeing Norah go in through the bulkhead, and hearing Mrs. Whiting say to a departing caller, "Yes, we are going this evening on the late train, Norah and all—yes—to spend Thanksgiving."
"Come this way," he said briefly, and

led his companion towards the bulkhead. It yielded to his touch; they stumbled down the steps, and were at last under cover. It was not specially warm in the cellar, but it seemed a paradise in contrast with the bitter cold outside.

A faint light streamed from the halfopened door of the furnace—evidently

left ajar to keep the fire alive until the family should return the next night.

The elder of the two tramps, whom his companion called Joe, closed it and opened the drafts. He brought up an old chair without any back and a washtub which turned upside down made a good seat. When they were warmed enough to talk, he said:
"We are all right till to-morrow night.

I heard the lady say they were going away on the evening train to spend Thanksgiving."

"Maybe somebody here all the same— you better go slow, old boy!" continued his chum.

"Guess not, by the way they left the fire; but we'll keep quiet all the same, and he changed the dampers a trifle. drew up his improvised chair, and opened the furnace door to warm his chilled fings

"Say, Joe, how'd you know about furnaces?" said the boy.

"Used to have one at home, Fred," said Joe, briefly.

His companion glanced curiously at him. In the faint light his face looked stern and sad.

"You wasn't always a tramp, no more'n me?"

"No," said the other with a harsh laugh; "I wasn't born one! few are."
"There wasn't no furnace in my father's house," said the younger and more talkative one. "It was a farm-

house, and I hated a farm, so I run away." There was a long pause, Joe filled two of Norah's paper bags with coal and replenished the fire noiselessly. Then he took out a clasp knife and began to whittle a piece of pine wood into long splinters which he put into a basket

near by. "What are you doing, Joe?" said Fred. "Oh, just paying for my lodging! That's what a tramp is supposed to do

cut wood to pay for his lodging!"
"I say," said Fred, "we ain't bad uns, for tramps, we don't steal, and we don't swear nor-

"Oh, we are an ornament to the pro-fession, we are!" interjected the other contemptuously—then in a different tone, "Fred, my boy, we are a bad lot, and you know it; just useless loafers. Fred, did they used to keep Thanksgiving at your home? That farmhouse that you were such a fool as to run away from."

"Well, what did you run away from, I wonder? You hain't no call to talk to me!" growled Fred angrily.

"What, indeed?" said Joe with such a despairing groan that the other's anger melted away.
"Say," he went on after a pause, "

must have had a lot of learning. You don't talk like me. You may be a col-lege chap, for all I know."

Joe made no reply. His great hope less-looking black eyes were fixed on vacancy and he did not seem to hear.

"What shall we have for Thanksgiv ing dinner?" said Fred, presently, "I hate to steal their food, but we can't starve." Joe roused himself. "If we can find any food we'll take it—and pay for it." "Sorry," said Fred, "but my pockethook's in my other present." pocketbook's in my other pants!"
"Oh, shut up!" said Joe, good natured

ly, "you listen to me. When it's light mother—Fred jumped up suddenly and we'll look about and see what we can going into the laundry shed bitter tears find to do." ("Never heard of a tramp—the first for many a month—over his hunting for work much," muttered Fred home memories.

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-"never does in them newspaper yarns wouldn't think a tramp had feelings like other folks, to read them yarns, or ever washed his face!")

When you are done jabbering, young fellow, we'd better get a nap, if we can."
"H'm, can't find my pillow," said the irrepressible Fred, "and some feller must have swiped my blankets!"

Joe took from his pocket a bit of candle, which he lighted and went on an exploring expedition.

In the adjacent laundry he found some old rugs hung over a line, and in the store closet the boiled ham and dough-

nuts and some raw apples and potatoes.
Going back with the rugs, he told
Fred what he had discovered, divided the rugs with him, fixed the furnace for the night, and then the two poor wanderers tried to sleep, haunted by who shall say what dreams of Thanksgivings past, and gloomy visions of others yet to come.

Thanksgiving morning dawned clear and cold. "I'll get breakfast," said Joe, and you-well, you'd better make the beds and sweep up."

Somewhat refreshed by a night's rest

and in comparatively comfortable quarand in comparatively comfortable quarters, their spirits revived and they entered into the fun of the thing with a boyish abandon, surprising to themselves as they looked back upon it in after years. Joe raked down the furnace fire and put some potatoes to roast to the bet select. in the hot ashes.

Going into the laundry he washed his face and hands at one of the set tubs, smiling a little as the action reminded him of Fred's remark about the "news-paper tramps" who never washed their Then he carefully washed his useful clasp knife, cut some generous slices of boiled ham which he piled on one of the paper bags, filled a tin pail cover with doughnuts, spread a stray newspaper on the wash bench and breakfast was ready:

"What are we going to drink?" Fred asked.

"Well," answered Joe, soberly, "tea is sort of womanish, and coffee might make you bilious—let's try cold water!" Bringing out two empty fruit jars, he filled them with that wholesome if not exactly "warming" beverage. Two paper bags answered for plates; the potatoes were done just enough, and eaten from their jackets, were not to be de-spised. Salt would have improved them, but the ham helped to make that deficiency less apparent. As they drew up to the improvised table the same thought struck each that it was Thanksgiving morning!

"I can't help thinking," said Fred, huskily, "of the farm, and—"
"Don't talk!" said Joe, sharply, "eat your breakfast! we're tramps—just tramps. Be thankful you are not frozen or starved."

Fred choked back a sob. He was only a boy after all, poor fellow, and this was his first Thanksgiving away from home. Both were silent for some time. Fred's thoughts persisted in going back to the bright New England kitchen and his last Thanksgiving breakfast there. He could see it all, like a picture. The yellow painted floor with its braided mats, the sun shining across the breakfast table with its coarse, white tablecloth, its steel knives and forks and brown and white tableware. There was always chicken pie for breakfast on Thanksgiving morning, he remembered. There by the stove was grandma's rocker with its patchwork cushion, and on the other side, father's big cowhide boots were warming. He always would keep them there, no matter what mother said, and

And that older man, left to his ow thoughts at the rough breakfast table What words can describe the picture his memory called up of happie Thanksgiving days?

No humble kitchen with its rustic table service, but glitter of silver and perfume of flowers, costly damask and priceless china—a gracious presence presiding over all. His widowed moth er, Heaven help her! Was ever mother cursed with such a son? a gambler, fugitive from justice, an outcast forever "The only son of his mother and she widow." Ah, happy widow of the Bible story, whose son had not disgraced her "It may be too late for me, but I'l try to save the boy," he thought to him self. "He shall go back to the farm and in a few years these months of wan

dering will seem almost like a dream to him." When Fred reappeared, Joe made no allusion to his absence, and they se about the work they had planned to do They piled up the wood neatly, cut up a large quantity of kindlings, mended the handle to the wood basket, and did various things that had been left for the man who came periodically to de odd jobs. Then it was time to get din ner, which was a repetition of the morn ing's bill of fare, but the tramps were not fastidious and waxed facetious over their repast.

"Will you have dark or light meat?" said Joe with the boiled ham befor him and the clasp knife in his hand "This," surveying the ham critically, "i the finest turkey I've seen for some time! Do let me give you a bit of the breast and some stuffing."

"I'd rather have a wing!" said Free with a chuckle.

"No cranberry sauce, thank you," said Joe, after laughing at the picture suggested by Fred's remark of a pig with wings! "I prefer a roasted apple," help ing himself to one of several that Fred had received by strugging them on a long ing himself to one of several that Free had roasted by stringing them on a long stiff wire that he found among the rub bish. By resting one end on the back of the furnace lining, and moving the other back and forth, he kept them turning so that they roasted evenly without burning.

After dinner they occupied themselves in making plans for the future. The memories of the day had stirred the hearts of both, and determined them to make a new start. At least, Joe was

make a new start. At least, Joe was determined to give his young compan ion one, and mature his own plans later

There was no shadow of a crime be tween Fred and his home, and his par ents were both living. It was possible and easy for him to return. With him self the case was different. His mother had died and he himself was deed to had died, and he himself was dead to orn all of his name and race. But in the far ork West, with a new name, he might have had an honorable if not a happy career, after years of hard work and discouragement At least he could try.
"Fred," he said, "we are about eight

miles from W—, and I am going to send you with a note to an old friend who will help you to get work. When you have earned enough to get some decent clothes and pay your rare back sell to the old farm, you are to go—you unil go derstand?"

'What are you going to do?" said o be Fred.

"Never mind about me," said the other. "You do as I tell you. It's enough for you to know that I'm not going to

live this way any longer."

"But I hate to leave you, Joe," said will the boy. "You've been awful good to'n reme since we've been together. I'd rath er tramp with you and starve than live seed, right up to the handle with most folks.

Joe looked at his sadly and irresolute ouses ly—here was his only friend. He could never go back to those of fermer time

le must make a new start among new eople, if he made one. Perhaps he night fail; it would he up-hill work anyvay. Why not keep the boy with him? ut reason said "No." He might not be ble to save himself—he could save the

ther.
"So you want to stay with me?" he

aid, and Fred brightened instantly.
"Now," said Joe, "don't you want to
se your mother?" Fred nodded. well, old fellow, I'm going to fix it so ou can, but you must drop me to do it. 's the best thing, the only thing for ou. You see I can ask for you what I puldn't for myself."

On the blank leaf of an old letter hich he found in the rubbish, he wrote ith a leadpencil as follows:

Will you help the bearer to get work at hich he can earn an honest living, and se that he goes to visit his parents when has a respectable position and has trned money enough to clothe himself toperly for the visit? I ask this in the me of the friendship which once existed stween us, and to which I forfeited all aim four years ago."

He signed the name which had been s in that prosperous time, which he ad disgraced and had been forced to nounce forever. Folding the shabby tle note, he addressed it to one of e prominent business men of W——. hen taking one of the useful paper em for their involuntary host and

stess:

'We thank you,'' it read, "for your inluntary hospitality. When we tell you
at the quiet "Thanksgiving' which we
we passed in your cellar has not only
wed us from possible death, from cold
d hunger, but has given us courage to
ake a new start in life, we feel sure that
u will not grudge us the food and shelter
hich you would probably have denied us
asked, and not without reason. We are
it two tramps, but we hope to be men
ith some place in the world, however
mble, before another Thanksgiving, and
a sign to this the names which have
rved our purpose as tramps and which
a now drop forever. Gratefully yours,
"Joe' and 'Fred."

As Fred read this epistle and signed

As Fred read this epistle and signed in a big schoolboy hand, he expressed admiration for the author of it in no "But it don't sound like inted terms. tramp's letter," he objected. "The

"It won't seem like a joke to find all eir ham and doughnuts gone, I'm

inking," said Joe grimly.
"Well, it's a great letter," said the
y. "Don't believe old Winters that pt our school at home and thought he s some pumpkins, could hold a candle it! Wouldn't I like to be here when

y read it?" with a boyish chuckle. 'Would you, though?" said Joe sig-leantly. "Well, I wouldn't. And now must have our last meal here, and they would make no use of anything ramp left behind him, we may as well ke the rest of the ham and doughnuts th us.'

They ate their supper in a thoughtful bod. Then Joe tacked his "letter" on a door at the head of the cellar stairs, ed the fire once more, and they left shelter that had meant so much to em to be homeless wanderers once bre, but not together—never more tother. Fred's boyish grief was open d violent, Joe's repressed but none the

Shan't I ever see you again, Joe? go with you now if you'll only let ," pleaded the boy, but Joe refused. he world is small, after all. You may me again sometime," he said; but in

heart he knew better. Outside the gate they parted. Joe tched the ungainly boyish figure till disappeared in the darkness, then ned with a heavy sigh and walked

in the opposite direction. Five years later, the Whitings, who d moved to a crude new Western city, re one day reminded of their "tramp sode," as they always called it.

Mrs. Whiting and a lady friend were iciting subscriptions for some charity, Mr. Whiting went rnoon and stopped at the office of a siness acquaintance noted for his be-volence, even in a city where open nded giving was the rule and not the ception. The gentleman cheerfully ned the paper and brought it to the lies, as he was just leaving the office the night. As the signature caught s. Whiting's eye she gave a start and claimed, "Why, it looks like our mp's writing!" and then blushed as realized that her remark might and a trifle uncomplimentary.

Mr. Whiting laughed and closed the rriage door. Then, in reply to Mr. ynton's inquiring look, he said, "Shall walk a few stons with walk as few stons with walk walk a few steps with you and tell in our 'tramp story?' It is quite like a mance." As he finished, he said, "In't mind telling you, Mr. Boynton, at there's apt to be a lump in my throat len I think of those poor fellows, and for my wife, I don't believe there many nights when she doesn't pray these two tramps whom we never

saw, and of whom we know only what is written on a brown paper bag which she keeps in her desk."

Mr. Boynton paused and lifted his hat reverently.

"Heaven bless her always, and all women like her," he said. "Good-night, this is my corner."

Mr. Whiting looked after him a moment. "Queer fellow—Boynton—rathen abrupt sometimes," he muttered, and he, too, went his way.

As Mr. Boynton sat in his handsome but lonely room that night, there was a wistful expression on his face as he said to himself, "I wonder if Fred went home to the farm!"—Good Housekeeping.

We wish to repeat and emphasize the proposition which we made last week. To every one who sends us a good article upon "The most wonderful exhibition of animal intelligence I have ever seen," which articles we intend to publish, we will send a year's subscription to the Kansas Farmer; or, if you prefer, we will send it to any other address you may send us. (We might suggest, in passing, that it probably would be hard to find a more acceptable Christmas gift for your father or friend than the Kansas Farmer for a year.)

In addition to this we propose to award a prize of one dollar to the best article on the subject. We wish these articles to be interesting, carefully worded, pointed and truthful. We are grateful, also for care in spelling, punctuation and penmanship, which make the task of looking over contributions and getting them ready for publication much lighter.

FOR THE LITTLE ONES

A THANKSGIVING STORY.

The pudding and pies on the pantry shelf (I know it was so, I saw it myself)
Had a falling out on Thanksgiving day,
And I heard every word they had to say.
I think I was just about six years old,
And shut in the house with a horrid cold.
The rice pudding began counting his
plums,
And calling, "Children, come, put in your
thumbs,
My face is some blistered and burned, I

My face is some blistered and burned, I know But my heart is as sweet and as white as

the Indian pudding cried, "I am Then And he shouted as though they all were deaf.

deaf.

"I'm as full of suet as I can hold,
And all the way through as yellow as
gold."

"Yellow, are you? Well, then, sir, so
am I,"
Quoth a grave and motherly pumpkin ple,
"And just as happy as a ple can be,
For every one chuckles who looks at me."
"It's me they're looking at," quoth the
squash,

"It's me they're looking at," quoth the squash,
"Beside a squash pie a pumpkin is bosh."
"I shall not last for a very great while,"
The mince pie said, with a broad, winning smile,
"Lucky for me it's Thanksgiving day,
For I'm so rich I should soon melt away."
"Rich!" cried the apple pie, wagging her head,
"You'll lie in the stomach as heavy as lead,
So I heard it said, but all say of me,
That pie is as wholesome as wholesome can be."
The custard pie shook, attempting to speak,

speak,
But the chicken pie crowed—an awful shriek—

"We all looked quite well, till our faces to That girl took a notion—she ought to be sick." At that I awoke, beginning to cry,
And heard mamma say, "She's had too
much ple."

-Christian Register.

Thanksgiving in Olden Times. (By a Little Boy.)

It was a cold and chilly morning. Papa had gone to get grandma and grandpa; he had taken the old spring wagon and



In each pound package of

from now until Christmas will be found a free game, amusing and instructive-50 different kinds.

Get Lion Coffee and a Free Game at Your Grocers,

put two seats in it and several chairs. I wondered why he had put so many chairs in, because I supposed nobody but grandma and grandpa were coming, for I didn't know who else in the world he would get, because we had no relatives who lived nearer than a hundred miles away from us, but I supposed he meant all right for he was as sound as an iron bar.

He had made up the fire in the fireplace and had started early. While he was gone mama and my little sister were fixing all kinds of good things to eat for dinner, and I was out chopping wood for the fire when it got low, and some for winter. The clock struck ten just as I brought in an armful of wood and what do you think I saw? It was turkey, two pumpkins, carrots, cabbage, and so many things that I believe I could not tell you all of them. It would

make a pretty picture, wouldn't it?

Then after I had chopped a little while longer I put the ax away and was just coming out of the barn when the old spring wagon came up to the house, and who do you think got out? grandma and grandpa and my jolly old uncle and aunt and my little cousin. Then we went into the house. I got washed and then we all sat down to the table and ate the best dinner I had ever

After dinner we talked together for awhile, and then we had our supper, though I must say, I for one didn't eat much but pie, and had to suffer for it too, for that night I had a nightmare and this is what I thought I saw: There were three turkeys ready to chop my head off, when mother came to quiet me down, then I went to sleep and slept all night. Now I guess I'll have to stop. Goodby and that's all.

The Bome Circle.

THANKSGIVING ON THE FARM.

Oh! the farm was bright Thanksgiving With its stacks of hay and shocks of corn, its pumpkin heaps in the rambling shed. And its apples brown and green and red—And in the cellar, its winter store in bins that were filled and running o'er With all the things that a farm could keep, in barrel and bin and goodly heap, Hung to the rafters and hid away—Oh! the farm was a pleasant place to stay!

And here and there was the Jersey stock,
The sheep and horses—old Prince and
Jock—
The turkeys and geese and awkward calf,
And the goat that made the children laugh.
A pair of mules that a friend had sent
Out to the farm on experiment;
Pigeons and fowls and a guinea pig,
Dogs that were small and dogs that were
big,
Chickens that were white and black and
gray— Oh! the farm was a pleasant sight that day!

Out back of the house the orchard stood, Then came the brook and the chestnut wood,

wood,
The old saw mill where the children play,
The fodder barn with its piles of hay;
The walnut grove and the cranberry bog,
The woodchuck hole and the barking dog,
The wintergreen and the robber's cave,
(Wherein who entered was counted brave);
The skating pond with its fringe of bay—
Oh! the farm was a jolly place to stay!

Oh! the pantry shelves were loaded down With cakes that were plump and rich and

brown,
With apple pies and pumpkin and mince,
And jeilies and jams and preserved quince;
Cranberry sauce and puddings and rice,
The dessert dishes that look so nice;
Vegetables, breads and bonbons sweet,
A great brown turkey and plates of meat,
Sauces fixed up in the daintiest way—
Oh! 'twas a glorious sight that day!

Oh! the farm was bright Thanksgiving

Oh! the farm was bright Thanksgiving morn,
The sun shone clear on the hay and corn,
The guests came early with laugh and shout,
And the boys and girls scattered about Seeking the pets they had known before,
Climbing through window instead of door;
Racing from barn to corncrib or mill,
Shouting and laughing with glee, until
The dinner horn sounded. Oh! I say,
"Twas pleasant upon the farm that day!

The big home barn was a place of joy For the romping girl and the climbing boy, With beams and mows and ladders to mount,
Horses and oxen and sheep to count;
Hunting of nests of sly old hens,
Tunnelling hay and fash'ning dens,
Helping the men to do up the chores,
Shutting windows and locking the doors.
Letting some work come in with the play—
Oh! the farm was a pleasant place to stay.
—Up-to-date.

Finding of the White Lama.

A STORY OF INDIA, BY LIEUT.-COL. A. F. MOCKLER-FERRYMAN, IN THE BALTI-MORE SUN.

(Continued from last week.) The receipt of this note was a great consolation to the traveler; he knew now the approximate length of his journey and he had the satisfaction of knowing also that on the morrow he would at any rate be able to talk. The guide had



quite certain that Gillmore could not possibly retrace his steps to Himis alone. The track was often quite invisible and passed now to the eastward, to the westward, though the general direction of the day's march was south. The same bare country was traversed throughout the day, and by sunset the traveler estimated that he must have covered nearly fifty miles, but where or when the lama intended to halt for the night he had no idea. Darkness came on apace, but still there was no sign of the end of the tedious ride: then, without warning, the guide set up a weird and loud wailing, which echoed again and again from side to side of the deep valley. In time came an answer back out of the depths of the gloom and again all was silent as the march continued. Suddenly a sharp voice rang out like a sentry's challenge and the lama replied; then a figure issued from behind a rock and a hurried conversation took place between the newcomer and the guide.

SWUNG UP THROUGH THE AIR.

After a while the two men approached Gillmore and signed to him to dismount; no sooner had he done so than a twisted fiber rope was tied around his waist and the guide gave forth a long dismal cry resembling the night call of the jackal. The rope tightened and the astonished Englishman instinctively raised his hands above his head and clutched the cord by which he was now suspended in midair. What was about to happen to him he knew not, but he felt that he was being pulled rapidly and steadily upward. The sensation was not altogether unpleasant, though the rope was somewhat rough to his hands and tight around the waist. Toward the end of this adventurous ascent the motion became more rapid, and at last, to Gillmore's intense relief, he felt himself seized by half a dozen hands and his half-numbed body was laid on the floor of a room while the rope was un-

THE DELIGHT OF CONVERSATION.

The chamber in which he found himself was well lighted and bright, and he was received by a pleasant-looking lama, who told him in Hindustani that this was to be his room for the night. Gillmore was delighted at being able to talk again, and plied his host with numerous questions. The answers he received were short but satisfactory, though he was unable to discover the name of the lamasery at which he had arrived, who the mysterious Englishman was, or where he would be found. He was well looked after, and was given a good dinner, with a plentiful supply of chong and a comfortable bed for the night, his new friend warning him on taking his leave that he would be aroused before daybreak and that the following day's journey would be a long

DOWN AGAIN BY THE ROPE ROUTE.

The night's rest was all too short, and it seemed as if hardly an hour had passed when Gillmore felt himself shaken gently, and the lama, standing over him, bade him get up and dress. With the rope secured around his waist he so far done his work well, and the va-rious intricies of the mountains through departed from the strange lodging as he which they had been wandering made it had come, being slowly lowered down



his hands and eyes.

sides rising perpendicularly for apparently several thousand feet; down this he and his attendant slowly wended their way, arriving shortly after dusk at a huge gate in a massive stone wall built across the end of the gorge, and completely blocking the exit.

Once more the jackal signal was given and the gate was opened. Several large mastiffs strained at their chains, and two armed lamas received the travelers, who were at once conducted to a small serai on the inside of the gate. Here, in an inner room, as on the previous night, Gillmore was accommodated with food and a bed; his guide on the day's march set down the baggage, which he had carried down the gorge, and, after a little while, brought in the guide for the following day's journey.

morning, and, as usual, an early start was made. Nothing of interest occurred for several hours, the way lying for the most part across an open sandy desert. over which ever and anon arose a succession of mirages, while occasionally a herd of antelope was to be seen scam-pering across the plain, the animals' bodies projected by the shimmering heat-waves to a height of several feet above the ground. The hills were reached again at noon, and in another hour the guide halted on the summit of a snow-pass, and, pointing down the val-ley, exclaimed: "Yonder stands Tscho Pangi, our destination.

sented itself to the eyes of the Englishman. From where he stood the country sloped gently down into a wide valley the perpetual snow-line ceasing half s mile below, when its place was taken by a long stretch of cultivation, now bright and green with springing corn. Beyond lay a lake of vast expanse, bounded on two sides by mighty mountains, its farthest extremity, however, being invisible. The scenery was not altogether unlike that of the Golden Valley, except that the lake was of far greater extent and the picturesqueness was increased a hundredfold by the strangely situated gompa, standing perched, a thousand feet above the water, on a rocky islet in the lake.

MET BY ARMED MEN.

On the margin of the lake they were met by a small body of armed men, who, after taking charge of their ponies, led them to a large barge quaintly painted in red and gold. This the whole party entered; and the lamas, bending to the oars, soon covered the mile of water which separated the island from the shore. Landing place there was none; one huge solid rock rose out of the depths of the lake, its sides being round, perfectly smooth, and perpendicular for a height of 200 or 300 feet; above this appeared fissures and clefts, with here and there a gnarled and twisted juniper bush; then followed further lofty precipices, surmounted by massive projecting rocks and built-out platforms, on which stood the lamasery itself. No more impregnable fortress could be devised, as Gillmore had every opportunity of judging for himself during the ten minutes that he was suspended over the water by the rope which had been lowered for him.

BESIDE THE DYING WHITE LAMA.

The end of the toilsome journey had come, and a strange feeling of s pressed excitement took possession sup the man who had undertaken to fulfill the wishes of his dying countryman. A large number of solemn gelupkas, or lamas of the yellow order, with snaven heads, stood on the platform by the prayer-mill windfass, which was combining the double office of rope-winder and prayer-maker; and as Gillmore was released they formed themselves, with released they formed themselves, with-out uttering a word, into a procession to precede him along a dark, rock-hewn gallery ending in a flight of steps. Up these they moved until they reached the topmost chamber of the gompa-a undoubtedly a subterranean chamber, square and spacious apartment, with windows opening from all four walls and letting in the long golden rays of small amount of comfort that, after the setting sun. In the center, on a rather more than half an hour, the trav-eler found himself standing on dry land clothed in yellow robes. Within easy in a warmer atmosphere. His troubles reach of his outstretched hand was a were not yet over, however, for he was heavy prayer-wheel, pivoted between again carried up a steep incline for floor and roof, and slowly revolving—some considerable distance, and then the only sign that life still flickered in

bowed heads muttered a prayer; then one of them gently touched the pros-trate form and whispered that the Englishman had arrived. The effect was electrical; the man raised himself and shading his eyes with his hand, stared at Gillmore; then, motioning to the lamas, he murmured, "Brothers, leave me for a space."

The two Englishmen were now alone, and Gillmore, kneeling by the bedside, took the thin bony hand in his and kissed it. The face before him, pale, wan, wrinkled though it was, still had the unmistakable features of a Euro-pean; otherwise there was nothing to show that the dying man was not an ordinary Bhoti lama.

THE LAMA SENDS A MESSAGE TO THE WORLD.

"Thank you a thousand times for coming," began the English lama, clasping Gillmore's hand. "I had the wish. and my brethren were good to carry it out. I believe they love me, as I also love them; but they know that though I am their head I am not of their people. My time is short. I can not talk much; but I have secretly written out my history on scraps of paper which I have here under my pillow. Take them, but be careful that they are not discovered on you. Promise me that you will remain with me till I die and hold my hand in yours. It will not be long now.

The opening words of the sacred verse were uttered in a loud, clear voice. Gillmore heard hurrying footsteps on the stone stairs; and, just in time, he secured the papers from beneath the pil-low and thrust them into his breast. The priests entered the chamber and took up the low wailing chant: "Om mani padmi hum," but too tate; the soul of the white lama and flown to prepare for its re-birth on the morrow.

Four days later Gillmore was seated with Keane and the Wuzir in the lat-ter's house at Leh engaged in answering questions, after an enthusiastic greeting on his safe return and at the conclusion of a general description of his extraordinary experiences.

You have not told us the name of the white lama."

"For the very good reason that I never learned it; but I dare say it is in his confession, which I have been afraid to look at as yet, as I carried the papers next to my skin on the return journey. and hardly slept a wink, fearing that they would be stolen from me. Here they are. Let's have a look at them."

"Not now," said the Wuzir. "Take my advice and keep them safe until you get out of this country. I am as much interested in the story as either of you; but I know what a hold their of you; but I know what a hold their religion has on the lamas. Probably the mystery of the white lama is known well enough in the country, and if it were suspected that the secret were discovered Buddhist fanaticism might rise to the occasion. I am certain that in a similar case we Mohammedans would stop at nothing."

So it came about that Gillmore continued to carry the papers on his person during the march back to Srinug-ger; and, as the Wuzir was as inquisias either of the Englishmen, he contrived to find some urgent business which required his immediate presence in the Kashmir capital. It was a month later that the two friends met to open the mysterious manuscript—a month every night of which had been a sore temptation to Keane and the Wuzir; but Gillmore guarded the treasuer jealously, down again for almost a similar disthe otherwise motionless body. Silently tance, after which he was placed gently the lamas knelt round the cot, and with

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Feet in

would be a thousand pities if the white ama's history should run the risk of being lost forever by impatient curiosity.

(To be continued.)

The New President of the Missouri State Dairy Association.

Replying to inquiries as to his views as to the dairy interests of Missouri in his new position of president of the State dairy association of that State, Mr. W. W. Marple, of St. Joseph, says:
"The course I have pursued and my at-

titude towards Missouri is the best evidence of my opinion of its future in the

dairy business.

"After my work in Kansas and Nebraska, which was so pleasant and satisfactory, after laboring in a field so acceptable and with a people held in such high esteem, the very fact of my associating myself with the dairy interests of Missouri is conclusive proof of my confidence in the outcome. Missouri has been a little slow to take advantage of her rich resource in this line, but I expect to live and see the day when there will be no line between the two great States of Missouri and Kansas. Their dairy interests will unite them. It will be one great country, one people, of one mind—all God's chosen people, living in a land of 'milk and honey.

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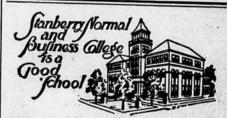
will

"In reply to inquiries as to my policy, as work for the coming year as president of the Missouri State Dairy Association, will say my best effort will be put forth to assist in making it a strong organization and a great aid in develop-ing the dairy interests. The same energy and vim that I try to put into my work in building up the business of the Blue Valley Creamery Co. shall characterize my effort in the interest of the people who saw fit to place me in the position they did."

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the precipitous cliff, which stood out above him in the descent bold and black against the starlit sky. At the bottom the ponies stood ready saddled. The rope, when released from his body. passed swiftly up the cliffside, to come down again immediately with the Hindustani-speaking lama—the guide for the day's journey.

As on the previous day, the ride was over rough and stony ground, though the monotony was relieved to some degree by conversation. For a Tibetan, the lama was decidedly loquacious, and having formed one of a party that had been dispatched to India on a religious mission some few years before, was in a measure enlightened and intelligent He discussed his religion freely with the Englishman, and though only belonging to the working or worldly class of lama he appeared to be well versed in matters with which his spiritual brethren alone concerned themselves. Toward evening the pathway suddenly descended into a wide valley watered by count less streams from the mountains; a rich verdure spread for several miles, and parties of red-clothed lamas were busily engaged in agricultural pursuits. This, the guide said, was known as the Gold-en Valley, and belonged to two lamaseries situated at a distance of several miles. At the far end the streams fell into the lake lying in a basin hemmed in on all sides by high mountains, and beyond this point there appeared to be no passage.

BLINDFOLDED AND BOUND.

"We leave the ponies here," said the lama, turning to his companion. are now about to enter the Stronghold, which no stranger is allowed to enter under any pretext whatever. In your case, however, a special permit has been granted by the Holy Shooshok, in consideration of the object of your journey, and you will be passed over the frontier, blindfolded and carried by the guard. Fear nothing. I will see that no harm comes to you." The two men then dismounted, and

the Bhoti, drawing too strips of puttoo from his saddle-bag told Gillmore that his instructions were to tie his hands behind his back, as well as to bandage his eyes. This done, the same weird jackal-cry that he had heard on the previous evening echoed among the hills, and on the instant a succession of similar calls, mingled with the loud barking of dogs, answered from every direc-An interval of several minutes passed; then came the sound of voices, followed by a number of questions, to which the lama-guide replied. Every-thing was apparently satisfactory, and the Englishman felt himself lifted off the ground by two or three strong men, to be immediately carried rapidly along what seemed to be a fairly level though rough road. In ten minutes or so he was set down again, and a long discussion took place between his carriers, resulting in his being seized by the legs and hoisted aloft to sit on the shoulders of two men walking side by side. What this new mode of progression meant it was hard at first to discover; but after a while the astonished Gillmore learned by the sound that his bearers were wading in deep water. Suddenly the air became chilly and raw, and the splashing of the water reverberated in what was The air grew colder and colder as the journey continued, and it was with no

on a rock in a sitting position. He heard the round of his bearers' footfootsteps rapidly fading away; then, when all was quiet, the lama-guide spoke to him, and untied the cloths which bound On looking around Gillmore discovered that he was in a narrow gorge, with

THROUGH A LAND OF MIRAGES

Fresh ponies were provided in the

It was a most striking view that pre

MOLES AND GOPHERS.

(Continued from page 1155.) sweet potatoes, apples, raisins, and prunes. The presence of strychnine, arsenic and other poisons does not seem to deter them from eating the food; but if the poison is sweetened they seem to

eat is more readily. In summer it may be desirable to take the trouble to sweeten the poison, but in the fall and early spring it does not seem worth while to do this. The poisoned food being introduced to the surrows below the surface, there is no danger of poisoning stock. It might be well, however, not to let swine run in the alfalfa fields for a time after the poison has been put out.

The following method of introducing the poison is recommended: Cut the potatoes, or other food, into pieces not more than three-fourths of an inch in diameter. Cut a slit in each piece and with a point of the knife blade insert a little sulphate of strychnine; as much as half the bulk of a grain of wheat will answer the purpose. The moisture from the potato will cause the poison to ad-

here to the blade.

"Having prepared the bait in sufficient quantity, go to the field armed with a round, sharp-pointed implement an inch or an inch and a half in diameter and of sufficient length. The tools here illustrated were made by a blacksmith for the writer. One is a shovel handle and the other a spade handle, and each is shod with a conical iron point. A bar is attached about fifteen inches from the point to enable the operator to use the foot in pressing it into the soil. These tools have proved to be quite serviceable. With one of them it is only necessary to find the runway of the gopher. The handle is sufficiently thick to make a hole large enough to permit one to drop the poisoned potato directly into the burrow. The operator then passes on to another place, leaving the hole open. No digging with a spade or other hard labor is necessary. An experienced person can distribute poison to many acres of alfalfa in a day; and if proper care is taken to rightly distribute the bait, it will not be necessary to go over

the ground a second time.
"Some experience is required to ena ble one to find the burrows quickly. It is best to insert the food as near as pos-sible to the freshest mounds of earth thrown up by the animals. Two or three pieces of potato at that place are worth many scattered in other parts of the runway. The operator should avoid the larger mounds and those that are not freshly made."

Kansas Crops for 1902.

The State Board of Agriculture has issued its summary of the agricultural, horticultural and live-stock products of Kansas—yields, numbers and valuesfor the year 1902.

Winter Wheat.—The yield of winter wheat was 54,323,839 bushels. Its home value is given as \$28,983,943.60. The area sown, as returned by township assessors in March, was 6,254,474 acres. The output of each of the thirty counties leading in winter wheat product, and having 63.47 per cent of the year's crop, is shown as follows, the counties being named according to their rank in yield:

Ra	nk. Sum	Cou	int	y.									Bushels.	ı
1.	Sum	ner.			 	 	 						2,548,832	
2.	Ren													
3.	Staf													
4.	McF													
5.	Bar													
6	Seds													
7.														
	Prat													
8.	Har													
9.	Roo												1,362,340	
10.	Rice													1
11.	Phil													
12.	Dick	cinso	on.		 	 					-		1,098.939	J
13.	Har	vey.			 	 	 	٠.				٠.		
14.	Sali	ne			 	 	 						1,079,204	Ì
15	Kin	gma	n		 	 				 			1,005,750	1
16.	Mar													
17.	Clay													-
18	Was													1
19.	Dec													
	Lab													
21.	Don													
22.														1
23.													827,200	
24.														
25.		wn.											802,980	
26.	Mar	shal	11		 ٠.	 		٠.		٠.		 		
27.	Mite	chell				 			1			 	756,100	
28.														į
29.		h												

for next year's crop is 6,020,103 acres, R

being a decrease of 234,644 acres or 3.7 Buckwheat (bus.).... per cent below last year's sowing, which was much the largest ever reported The soil and weather conditions for its prosperity have been unus ally favorable, and the even, wholesome and not too rank growth presents a cospect most promising, barring unpleasant reports from numerous localities of tyellow spots" in the fields, chargeable to the presence of Hessian flies in greater numbers and activity than before observed in the State. The prolonged autumn weather has afforded these pests unusual opportunities for working mischief, and their activity has, in some counties, caused no little disquietude. Spring Wheat.—The shrinkage in

spring wheat sowing so conspicuous annually of late years is again strikingly in evidence, this year with but 46,293 acres, and a yield of 325,397 bushels, worth \$155,546.57.

Corn.—The corn area of 6,990,764 acres (which includes the 5,919,590 acres reported by assessors, plus 1,071. 174 acres of the plowed-up wheat land stated by correspondents as having been planted in corn) yielded 201,367,102 bushels, worth \$78,321,653.26.

The fifteen counties leading in corn and having four million bushels or more each, with their yield, named in the or-

d	er of their rank, are:	
R	ank. County. Namaha. Marshall Brown Washington. Jackson	Bushels
1	Namaha	7,547.35
2	. Marshall	7,503,56 5,812,66
1 3	Weshington	5,692,08
1 5	Jackson	5,410,26
150		

	Triph and amost note-	-,	
1	Irish and sweet pota- toes (bus.)	8,733,511	3,471,344.12
	Castor beans (bus.)	4,400	5,500.00
	Cotton (lbs.)	136,005	9,520.35
1	Flax (bus.)	1,427,975	1,713,570.00
3	Hemp (lbs.)	10,200	610.00
0	Tobacco (lbs.)	15,150	1,515.00
N.	Broomcorn (lbs.)	16,584,205	495,640.15
	Millet and Hungar-	10,001,200	200,010.20
	ian (tons)	400,160	1,445,415.00
	Sorghum for syrup	100,100	1,110,110.00
	(gals.)	1,792,200	663,114.00
a	Sorghum, Kafir-corn	2,102,200	000,222,00
d	milo maize, and Jeru-		
	salem corn for forage	Was always a second	12,738,694.00
î	Tame hay* (tons)	803,934	4,823,604.00
d	Prairie hay (tons)	820,637	3,282,548.00
	Wool clip, (lbs.)	647,427	97,114.05
	Cheese, butter and	011,121	01,122.00
U	milk		8,412,217.65
ı	Poultry and eggs sold		5,706,352.00
a	Animals slaughtered		0,100,002.00
i	or sold for		
H	slaughter		51,346,589.00
d	Horticultural and		01,010,000.00
•	garden products		to the state of th
	and wine		1,995,550.50
3	Honey and beeswax	*******	1,000,000.00
•	They and beeswax	403,155	60,631.20
	Wood marketed	400,100	186,150.00
	wood marketed		100,100.00
8		Commission of the Commission o	901E 909 00E 00

Total value	.\$215,868,995.00
NUMBER AND VALUE OF L	IVE STOCK.
Number. Horses	\$51,130.422.00 6,696,970.00 23,755,320.00 61,399,200.00 410,259.00
Swine 1,427,302	11,775,241.50

Grand total \$370,976,408.00 Note.-As published in some of the

daily newspapers, the value of the corn, the totals and gain are erroneously



W. W. Marple, President of the Missouri State Dairy Association.

6. Pottawatomie	4,757,025
7. Osage	
8. Sedgwick	
9. Cowley	1 04 4 00 4
10. Miami	
12. Jefferson	4,118,520
13. Republic	4,101,552
14. Butler	4,073,760
15. Reno	
Onte Who wield of cota !	a nearly 60

Oats.—The yield of oats is nearly 60 per cent greater than last year's, or 32,966,114 bushels, and the largest since

Irish Potatoes.-The yield on the considerably diminished area, 60,618 acres, was 8,193,632 bushels, the largest and best crop by far since 1889, with a value of \$3,136,856.71.

The net increase year's agricultural productions over that of 1901 is \$20,614,343, and of live-stock \$2,069,680, or a total net increase for the year of \$22,684,023 or 6.5 per cent. In two years the increase in value of agricultural productions has been \$28,072,589, and of live-stock \$11,649,659. The total increase over the value of three years before amounts to \$68,071,029.

The quantity of old corn in farmers' hands March 1 was 7,724,942 bushels. The year before it was 35,121,339 bushand two years before 48,252,667 bushels.

The quantity of old wheat in farmers' hands March 1 was 9,664,595 bushels; the year previous 7,996,555 bushels, and two years previous 4,824,828 bushels.

ALL CROPS AND PRODUCTS.

The yields and values of the year's crops and products are as follows:

tops and produces	MIC MO IC	***
Vinter and spring		
wheat (bus.)	54,649,236	\$ 29,139,490.1
orn (bus.)	201,367,102	78,321,653.2
ats (bus.)	82,966,114	9,564,254.8
ye (bus.)	8,728,296	1,584,321.3
orley (hus.)	2.188.972	801.381.6

Will Save Labor and Expense.

Hon. H. A. Castle, auditor for the U. S. Post-office Department, says in the July, 1902, North American Review:

"A measure is now pending in Congress embodying what is known as the 'Post-check' system, which is intended to furnish something more simple and accessible than money orders for ready use in making small remittances. To adapt these notes to their purpose it is provided that the words 'payable to bearer on demand' shall be eliminated, and the words 'payable to the payee named herein; payable to bearer if the spaces are not filled,' be substituted. These notes will thus pass from hand to hand as currency until the blank space is filled. Thereafter they are payable only to the payee; they can be redeemed at any money order office and they will not again be used as a circulating medium. They will find their way by legal channels to the United States Treasury, where they will be handled and destroyed as mutilated cur-

"This plan seems to be practicable, to accomplish several desirable results simultaneously and to afford accommodation to the entire public at a minimum of labor and expense. The saving that would be effected by treating the paid and cancelled notes as mutilated currency instead of vouchers; the intricate reports and interminable columns of fig-

2,216.00 ures that would be abolished; the simplicity of accounting and certainty of correct adjustments that would superseed present complications and uncertainties, can only be appreciated by those familiar with the crude methods employed in the auditor's office for bringing forty millions of money orders annually into dubiously accurate relations with the thirty thousand postmasters who issued and paid them.

ANNUAL MEETINGS OF NATIONAL BREEDERS' ASSOCIATIONS.

During the week of the International Live Stock Exposition, at Chicago, December 1-6, 1902, the following national breeders' associations will hold their annual meetings:

Dec. 1, 8 p. m.—American Hereford Breeders' Association, Live-Stock Record Building.

Dec. 2, 2 p. m.—Red Polled Cattle Club of America, Sherman House. Dec. 2, 8 p. m.—National Association of Exhibitors of Live Stock, Live-Stock Record Building.

Dec. 2, 7 p. m.—American Polled Dur-ham Breeders' Association, Saratoga Hotel.

Dec. 2, 10:30 a. m.—American Shrop-shire Registry Association, Live-Stock

Record Building. Dec. 3, 8 p. m.—Intercollegiate Live Stock Association.

Dec. 3, 8 p. m.—American Aberdeen-Angus Breeders' Association, Palmer

House. 3, 8 p. m.—American Duroc-Dec.

Swine Breeders' Association, Jersey Windsor-Clifton Hotel.

Dec. 3, 7 p. m.—Hampshire Down Breeders' Association of America, Balcony Club Room, Palmer House,

Dec. 3, 7:30 p. m.—American Association of Importers and Breeders of Belgian Draft Horses, Sherman House.

Dec. 3, 8 p. m.—American Shorthorn Breeders' Association, Palmer House. Dec. 3, 10 a. m.—National Lincoln Sheep Breeders' Association, Live-Stock Record Building.

Dec. 4, 5 p. m.—American Leicester Breeders' Association, Transit House.

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 values, 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 present a copy of this splendid New Wall Atlas postpaid, free.

Any one not now a subscriber who will send us 50 cents at once will re-ceive the Kansas Farmer for five months and will be given a copy of our New Wall Atlas free and postpaid.

A commendable system or railroad insurance has been established by the French government. A patron of the state railroads, by the purchase of a ticket which costs about two cents, secures the right to \$2,000 in case of death or permanent injury, from \$500 to \$1,000 for minor injuries, and \$1 a day while the person is unable to work.

A good agricultural and live-stock paper is a necessary farm implement. You can get the Kansas Farmer and the Breeders Gazette for a year for \$2.00, the price of one.

Reduced Rates for Christmas and New Year Holidays.

The Nickel Plate Road will sell tickets December 24, 25, and 31, 1902, and January I, 1903, 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, 1903. 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, Harrfson Street and Fifth Avenue. (85)

NO MONEY TILL CURED. 25 YEARS ESTABLISHED. We send FREE and postpaid a 200 page treatise on Piles, Fistula and Diseases of the Rectum; also 100 page illus. treatise on Diseases of Women. Of the thousands curred by our mild method, none paid a cent till cured—we furnish their names on application. DRS. THORNTON & MINOR, 1907 Oak St., Kansas City, Mo.

Keeping up with the Times.

MRS. T. WILLMATH, BEFORE THE SUMMER-FIELD FARMERS' INSTITUTE.

The first efforts of the human family The first efforts of the human family toward producing a livelihood must have been by tilling the soil. Necessity demanded it. The rich soil of the valleys was utilized for farming, and in time there were "cattle upon a thousand hills." The first agriculturists were the prime factors in the wealth and stability of the land, and of untold influence in elevating nations to positions of splendor and power! And to-day we have proof on every hand that agriculture, combined with stock-raising, is the leading industry of the land. ing industry of the land.

There is no person engaged in business of any kind, who is not dependent in a measure upon the prosperity of the farmer for his own success. If crops fail, the ministers, merchants, doctors, lawyers, all suffer from the failure. The welfare of our towns, cities, States, and nations is due to the adequate success of agriculture. Failure on the farm brings financial distress to every business enterprise, while abunuant harvests insure national prosperity. To take a glance over the past and com-pare it with the present is often help-ful in gaining a broader view of our own times. In the primitive times, the crude implements and simple methods were used in cultivating the soil; but the bent stick and wooden plow are replaced by steel plows of various kinds, the sickle by magnificent reapers and binders, and the flail by the powerful steam threshers. And may we not belisve that in a few years electricity will be used to draw machinery along? Time would fail me to tell of the many invenuons for the use of the farmers and farmers' wives. And who is more de-serving of the best macninery to make work easier than the farmer? But let me whisper to you, brotners, do not get it all for the outside of the house. The spirit of progress has made rapid strides in the past fifty years, and the enter-prising farmer of to-day needs many things his father neither had nor missed, that he may successfully carry on his work. Let us see to it that in our everyday lives we keep pace with the prog-ress of the times. Let us keep our eyes open and not become so self-centered, as to miss the beauty on the farm, for we need not go to the mountains or coast to find beauty or pure air; it is at our

very doors. The trouble with so many is that their minds are so filled with schemes for making money they find time for noth-ing but hard work. It is a mistake to undertake too much, to force our tired bodies to a few more hours of labor when nature tells us we have done enough. Working sixteen hours a day is not an evidence of good farming. The farmer himself is worth more than the The man who really wins on the farm is the one who sets out to win, and keeps up a steady preservering. Luck is the flickering of the firefly's wing. Success comes by following the steady blaze of the star of honest endeavor. Have high aims. If you raise corn raise the best corn. If you keep stock, keep yourself well informed in everything concerning the farm by reading the best farm and stock papers, and put your information to practical use. Do not be afraid to try some new experi-ment. Keep out of the old ruts. If you do not, you can never keep up with the times and may as well drop out of the

If your boy has a reasonable theory he wishes to put into practice, do not re-fuse him without consideration. The smart boy will keep up with the times. If he can not do this on the farm, he will go elsewhere. Take your boy into your confidence. Consult him with regard to some business transaction you are about to make. Make him feel he is the junior partner of the firm, and as such he has a right to a share of the profits, or at least to the money you received and put into your pocket for that colt or calf he has taken such good care of with the understanding that it was his own. Do not make his life one of This is perhaps one cause drudgery. of dissatisfaction among the youth on the farm. Let him have a day off occasionally for recreation. Remember "All work and no play makes Jack a dull boy." Some hold the idea that the dull boy should be kept on the farm, while the smart one should be sent to college to prepare for some profession. This is dreds of copies have been sent out a mistaken idea. No education is too monthly all over the State. All the broad or thorough for the man who has members of both houses of the Legislato wrestle with the problems that confront the latter-day farmer. A good, practical education, such as our agricultural colleges give, is becoming a pressing necessity with the tarmer. Brains

farmer must know more of his occupa tion than mere sowing and reaping. The greater the application of the mind to any department of physical labor the greater the result. The farmer must carry into his work sound judgment and plenty o fit, and like other branches of business, farming calls for knowledge gained by experience of its general principles and details. And despite the common practice of hundreds, yes, thousands of farmers, it is necessary to keep a strict account of all debits and credits, and make an inventory yearly has fast and make an inventory yearly. As fast as figures bring the truth to light, all features which do not pay should be eliminated for the promotion and de-velopment of those which up pay. This will help farmers to a better understanding and appreciation of their calling, and enable them to conduct their business on a more profitable basis. If many of our great man who were reared on the farm had not kept up with the times they would not have become the men of influence which they have. There is no excuse for the farmer not keeping himself informed on the topics c. the day. The times demand this quite as much as agricultural skill. The affairs of state and the intimate relations of agriculture to the general welfare often call our legislators from the intelligent body of agriculturists. The voting farmer should do all in his power to see that the legislators are in sympathy with and will stand firm for the

rights of the farmer.

I have spoken principally of the work of the farmer himself, but the same things may be said of the farmer's wife and daughter. Grace, grit, and gumption are as necessary on the inside of the house as out. To keep the household machinery running, the work must be systematically arranged. There are law and order methods in housekeeping as well as other matters. Some women are moved by sudden impulses, thoughtlessly attempting one thing and then another, only to find themselves exhausted without accomplishing any real good. while others, by well-laid plans, accomplish much without seemingly great effort. fort. It does not require any rare gift to stand by a task till it is finished, or to see our duty and the best means of doing it. Study to make housekeeping a pleasure, not a drudgery. Do not spend all the day with baking and brewing, frying and stewing, and have no time for the latest magazine, a call on a neighbor, or even a three-minute nap to rest the tired nerves. Labor in season is part of every useful, happy life and our girls as well as our boys should be taught that honest labor raises, not lowers, their dignity and standing, and that the quality and standing of any honorable calling can only be measured by the character of those engaged in it and, I might also add, the manner in which the work is done.

Let comfort and good cheer abound in the home, with an abundance of good papers, magazines, and books, and plen-ty of time to read them. There should also be music and harmless amusements and all proper efforts for the higher, better things of life, so that we may grow morally and intellectually as well as physically. Make the home so cheerful and happy that the children will always look back to it with pleasure. Keep young as long as possible for the children's sake, and remember

"The sweetest lives are those to duty wed, Whose deeds both great and smail Are close-knit strands of an unbroken thread Where love ennobies all."

The world may sound no trumpets, ring no bells, The Book of Life the shining record tells."

"Thy love shall chant its own beatitudes After its own life working.
A chi'd's kiss set on thy sighing lips
Shall make thee glad;

A poor man served by thee shall make thee rich, A sick man helped by thee shall make thee strong.
Thou shait be served thyself by every sense
Of service which thou renderest."

Temperance Work for 1903.

The State Temperance Union will, during the coming year, distribute an unusual amount of tract literature. Leaflets will be sent, as far as possible, to every part of the State, and where practicable, the work will be done with such thoroughness as to reach all country neighborhoods.

The distribution of T. E. Stephens'
"Prohibition in Kansas" will be continued. Since the appearance of the new edition of this work in June last, hunture will be presented with the work, as well as several hundred county and city officers in the State.

It is designed that the union shall

reach a greater number of the people of must be brought into use as well as mus- Kansas with temperance literature than cle. To obtain the greatest success, a it has ever done in an equal time before.

RANCH AND FARM LIST

Offered for sale by W. A. Willis & Co., Emporis, Kansas. The following list embraces choice bargains in ranch and farm properties, and are among the very best to be had now on the market:

A fine stock farm of 987 acres—287 acres of this adjoins a good town on the main line of the Santa Fe; is nearly all choice river-fottom land, and is in a high state of cultivation. There is a good two-story 3-room house, with fine cellar and water in house supplied from tank. Large stone barn, two good cattle sheds, also cribs, granary, and various other buildings. Abundance of good well water, also fine watering place along the river, good orchard, and a fine vineyard o four acres, 30 acres in aifalfa. The 760 acres is one and one-half miles from the above; is a fine quality of pasture land, 185 acres in cuitivation, balance pasture, well fenced, fine sprin s and ponds. This is the place for a breeder of fine stock, or a feeder who wants to be close to a shipping point. Would sell the 287 acres separately. Price \$22 per acre.

2,230-acre ranch near a good town on the main line of the Santa Fe, over 3-0 acres of good bottom land in cuitivation, balance fine quality of grass land, plenty of timber, abundance of living water, fair improvements, one of the est ranch properties in the State. Pri e \$15 per acre.

3,760-acre ranch in Chuse County, Kansas. 2 0 acres

of timeer, soundance or living water, tair improvements, one of the est ranch properties in the State. Pri e si5 per acre.

3,760-acre ranch in Chase County, Kansas. 2 0 acres of cho ce river bottom land, and 100 acres of creek bottom, 200 acres of corn and wheat land, and nearly 00 acres in affaira, about 50 acres in timeer and corrais, balance of land good quality of limestone grass land with plenty of spring sind creek water, well distributed over the pastures; fenced in three different pastures, fences in good condition, good frame house 1½-story high, with five or six rooms, good cellar, frame barn, sheds, chicken house, and other buildings, cattle scale, and good winduill in corral, three miles from good shipping point, on the main line of the Santa Fe, and only nine miles from the county seat. An all around good stock ranch. Price \$ 250 per acre.

2,160 acres in Greenwood County. 300 acres of fine bottom land 225 acres of which is in cultivation, 65 acres in aifaifas. Balance is rolling native grass pasture. Never-falling water, fine timber—in which are feeding sorrals or hundreds of cattle, and 30 acres of hog-tight fencing, one-half mile to postoffice, and il miles to shipping point on Mo. Pac. R. R., new frame house of six rooms, barn for seven horses. Cheap grazing ands can be bought adjoining, if more land is 'estred, as this ranch controls the water. The is one of the finest ranche in the State, and has always been a money maker Owner is over 65 years old and wants to sell. Price \$ 250 per acre. Easy terms,

to sell. Price \$ 2.50 er acre. Easy terms,
520 acres, 100 acres of good bottom land, 80 acres in
cultivation, 20 acres good young timber, balance fine
quality of grass and, abundance of living water, house
of seven rooms, stable room for 15 head of horses,
cribs, granaries, chicken house, and other buildings,
fine feeding corrais, also tenement house and two good
orchards This place is within three miles of a cood
shipping point on branch of Santa Fe. The house is
pleasantly located on main traveled road, is in good
neighborhood, is close to school, and is within a quarter
of a mile of a pub ic long distance telephone s acton.
This is a fine combination stock farm. Would trade
for smaller farm in eas ern Kansas. Price \$8,500.

640 acres, about 15 miles from Empo is. 120 acres in
cultivation, about 3 acres nalfaifa, balance fine quality of pasture, good spring and well with windmill,
house of for rooms n good condition, new trame barn,
we thin three miles of good sh pping station. Price \$16

A finely improved farm of 170 acres, within two and one-half miles of the business center of Emporia. A fine quality of land, all in a high state of cultivation except about two acres of timber, a fine house of eleven rooms with modern improvements, two large barns with cribs, cattle sheds, hog houses, chicken houses, and other improvements, abunda ce of water which is piped all over p ace. The buildings are located on one of the main traveled roads out of Emporia, and on rural route. This is one of the best homes in the west, and is just the place for a breeder of fine stock or some one wanting a fine home. Price \$100 per scre.

A fine bottom farm of 301 acres, all choice alfalfa

one wanting a fine home. Price \$100 per scre.

A fine bottom farm of 301 acres, all choice alfalfa land, with about 100 acres now in alfalfa, good house, barn, cattle sheds, abundance of living and well water, plenty of timer. This farm is within two miles of Euporia, and within one and one-half miles of the Emporia Stock Yards. A good bargain at \$60 per acre.

porta Stock Yards. A good bargain at \$60 per acre.

\$22½ acres. eight miles from Emporia, within three
miles of good shipping point, 185 acres in oultvation,
25 acres alfalfa, 50 acres of English blue-grass, balance
in pasture, good house of on rooms—five closets, good
frame barn, cattle sheds, cribs, granaries, etc., 15 acres
of good bearing orchard of standard varieties, which
has paid a handsome income for the last few years,
good well with windmill, with water piped to different
corrals. Price \$40 per acre.

corrais. Price \$40 per acre.

160 acres, seven and one-half miles from Emporia, three-fourths mile of good shipping point, about one-half in cultivation, 30 acres in airaifa, 15 acres timothy, balance pasture, farm well fenced and cross fenced, living water on place, also good well, good house o six rooms, good cellar, large frame barn with view room for 50 tons of hay, harn and shed room for 100 head of stock, cribs, and other buildings. Price \$35 per acre. 160 acres, newly improved prairie land, 60 acres in cultivation, balance meadow and pasture, new house of three rooms, frame harn, good well and pond water, young orchard of all kinus of fruit, close to school, in good settlement, 18 miles from Emporia and 10 miles from trading and shipping point. A great bargain at \$3,5 0.

80 acres, bottom and slope land, mostly in cultiva-tion, house of three rooms, new frame barn, good feed lot, plenty of well and creek water, 10 miles from Em-poria. Price \$2,500.

80 acres, nearly all in cultivation, 10 acres of alfaifa, three-acres of timothy and blue-grass, fairly good house of four rooms, also tenemen house, board stable, abundance of good well water, small orchard, close to school, and only six and one-half miles from Emporia. Cheap at 21,800.

80 acres of good, smooth land within two miles of the business center of Emporia, all in cultivation, no buildings, good bearing apple orchard of 40 acres. Just the thing for a fruit grower. Price 44,000.

We have a large list of pasture lands ranging in price from \$8.50 to \$20 per acre. Write us just what you want, and we will send you descriptions of such places as correspond as nearly as possible to what you want.

W. A. Willis & Co., Emporia, Kans.

F. D. Coburn, secretary of the State Board of Agriculture, is now president of the union.

Retain the Twine Plant.

EDITOR KANSAS FARMER: -It begins to look to me like there is going to be an effort made to do away with the bindingtwine plant at the State penitentiary this winter. The question is, what will the farmers of Kansas pay for their binding twine in the future if this done?

Capt. John Seaton, the father of that plant, is truly a benefactor, and when his earthly career is over a monument to his memory should be erected to reach almost to the skies, by the farmers of Kansas, for this one good thing, the best of all in a legislative way that has ever been done for the farmers of Kansas. I am a democrat in politics, but I was sorry to hear of nis defeat for representative, for in that body the farmers lost a friend and giant in their interest.

M. F. TATMAN.

Rossville, Shawnee County.

The progressive farmer keeps posted. The Kansas City Daily Star costs \$4.00 per year and we give you the Kansas Farmer a year free if you subscribe through us.

True Philanthropy.

Mrs. K. H. Fretter, Detroit, Mich., will send free to any woman who suffers from female weakness or painful periods, a sam-ple of the remedy that cured her.

PILES Fistula, Fissures, all Rectal Diseases radically and permanently cured in a few weeks 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.

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.



DISEASES OF MEN ONLY.

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The greatest and most successful Institute for Diseases of Men. Consultation free at office or by letter BOOK printed in DR. E. I. WALSH, PRESIDENT. English, German and Swedish, Explaining Health and Happiness sent sealed in plain envelope for four cents in stamps. All letters answered in plain envelope Various cured in five days. Call or address

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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 farming land—some in cultivation. Prices from \$11 to \$20 per acre. Address

WILLIAM HIGGINS. VINITA, INDIAN TERRITORY

Hotel Oxford 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 Plen, \$1.25 to \$1.50 Per Day. European, 75c to \$1 Per Day. The Finest Restaurant in Kansas.

Visitors to Topeka are invited to give us a trial.

FARM LAND.

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 Kansse; 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.

S. V. R. HAYES Michigan Trust Bldg., Grand Rapids, Michigan

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In the Dairy.

Eighth Report on Cow Test Experiment.

D. H. OTIS.

Previous annual reports can be found in the KANSAS FARMER for April 10, May 15, June 26, July 17, August 14, September 18, and October 16. The Oc-tober record is as follows:

recovered nicely but her milk flow was seriously affected.

Floss was brought in from pasture on October 13, and for the balance of the month was kept in the yard during the day and in a box stall during the night, so that she could receive attention at time of calving. She was fed a little more alfalfa hay and received a little less pasture than the rest of the herd, but as one will offset the other the roughness will be charged equally to each cow in the herd.

The test, with two exceptions (Haster and Rose of Cunningham) increased somewhat over the previous month. Two cows, Cowship and Daisy Belle, in-creased slightly in the yield of butterfat for the month. Rose of Cunningham fell over one-half in her yield of butter-fat for the previous month, due to the puncture necessitated by her be-coming bloated. This is a very unfortunate incident in the test.

Up-to-date Dairying.

J. E. NISSLEY, READ BEFORE THE INDIAN CREEK FARMERS' INSTITUTE, SHAWNEE COUNTY, NOVEMBER 14, 1902.

Improvement is the order of the day. Growth is the law of life, and every-where one sees this element of better-ment manifesting itself along every line of human and material effort. The scythe is supplemented by the mower, of milk that there should be.

less he give that machine sufficient and of the right kind of work to do, it will profit him very little. Now, a cow is a machine, and be she ever so good, if we fail to supply her with proper food, she is handicapped and fails to do her best, aye, fails to do reasonably well, which alone may mean not only no prof it but even quite a loss. I am not here to say what constitutes a proper ration and what feeds are most profitably raised in our section, but that is all a matter of record and research, and can be easily determined. That we need to branch out on these lines aggressively, goes without saying, a fact that our splendid Agricultural College has prac-tically demonstrated and is ready to give any one who may inquire, such data as will convince the most skepti-

cal. This subject of feed for dairy cattle is a very important one.

Third, care. Care should be taken, not only of the stock, but as well, of the product when once produced. My training has been more at this end of the line, and while I may disclose a little business secret, it is nevertheless a fact that there is too much indifference, too much careless-ness on the part of those who buy the milk from producers, for manufacturing and domestic purposes, and that there is not a sufficient inducement for a man to take that extra precaution in the care

For twenty years the World's Standard Send for free catalogue. The De Lavai Separator Co., 74 Cortlandt St., N.Y.

more essential elements in the standard measure of milk. Don't misunderstand I would not say a word against a high grade of milk as determined by the Babcock test, but that is not all. I maintain that what we need as well, is a flavor of an unquestioned character, and that means among other things thorough cooling and aerating of all milk as soon as drawn from the cow, handled in utensils that have been scrupulously cleansed, and kept in a place free from all odors and objectionable surroundings. We do need to place more stress upon the care and handling of milk. It is really surprising what a trifle of expense judiciously applied in this branch of dairying will add to the actual value of milk, and I hope that those of us who are at the other end of the line will gradually exact such requisites from the producers that will raise the standard as well as the price of milk and cream, and thus create a pronounced premium for cleanliness and care, because, after all, that is the sum and substance of it all, and therefore in reach of every one, no matter how moderate his circumstances

In conclusion let me talk plain. There is in my judgment no excuse for any dairyman not to have a milk house, or a cooling device for cooling and aerating, nor for not having hot water, nor clean cans. The whole outfit can be had for \$50. True it is not as elabor-

	6					Yield.	Field.		consumed.		Judges
No. Name of cow.	Selected	by-		sh—	Milk, lbs.	per ct.	Butter fat, lbs.	Bran.	A 10 29 CT - 3		for profit
43Cowslip	I. C. Co J. W. Cu M. L. Die	wies unningham ckson	Jan. Jan. Jan.	28, 1902 12, 1902	415.0	5.95 5.4 4.55 3.4	28.36 16.97 18.88 17.45	107.5 125 148.8 71.5	78.5 91.5 57 52	186 216.5 205.8 123.5	3 1 2 7
M5Molly	A. H. D C. L. El S. A. Joh	ssaser nson	Jan. Jan. May	20, 1902 15, 1902 3, 1902	466.7	5.05 5.4 4.05	18.20 25.20 30.61	87.5 89.5 125	64.5 65 91.5	152.0 154.5 216.5	5 8 9
46. Floss. 42. May Queen Roughness per head, alfalfa 80	G. L. Pri	est	tal 243 lbs.	25, 1901		7	27.86	125	91.5	216.5	å

	Vield										Rough-									
	March		April		Мау		June		July		August.		September.		October.		Total		Grain con-	ness con-
No. Name of cow.	Milk, lbs.	Butter- fat, lbs.	Milk, lbs.	Butter- fat, lbs.	Milk, lbs.	Butter- fat, lbs.	Milk,	Butter- fat, lbs.	Milk, lbs.	Butter- fat, lbs.	Milk, lbs.	Butter- fat, lbs.	Milk, lbs.	Butter- fat, lbs.	Milk, lbs.	Butter- fat, lbs.	Milk, lbs.	Bi tter, fat, lbs.	sumed, lbs.	
243Cowslip	1200.1 733.1 824	33.89 32.28 36.00 21.62 25.95 25.27	762.1 743.7 1090.1 642.9 726.8 791.5	32.00 29.00 35.97 20.25 24.34 26.91	797.5 878.4 1241.2 745.7 830.3 838.1	35.88 36.01 41.58 23.86 29.47 33.10	658.9 793.0 1055.5 593.9 742.5 664.6	30.64 34.10 36.41 21.97 26.73 25.92	559.2 657.5 826.6 401.9 633.2 511.4	25.16 27.29 30.58 13.65 24.06 20.97	585.1 582.7 913.0 478.0 610.7 529.4	24.87 25.06 32.87 16.76 22.29 21.97	577 385.9 820.5 569.4 552.7 512.6	27.69 20.84 38.56 18.79 25.42 26.14	476.7 314.4 415.0 513.2 360.5 466.7	28.36 16.97 18.88 17.45 18.20 25.20	4618.9 4547.1 6735.4 4276.6 4647.5 4604.9	238.49 221.55 270.85 154.35 196.46 205.48	1616.5 1714.1 1802.8 1059.5 1259.9 1262.4	3655 3655 3655 3655 3655 3655
	503.6	25.68 30.88	477.0 582.8	25.04 29.43	876.4 564.6 687.3	29.79 30.40 35.39	999.3 438.3 613.0	34.48 23.89 31.80	842.2 628.0 532.0	29.90	844.7 314.6 547.1	29.14 18.4 29.82	767.8 15.8 459.9	29.17 .92 31.73	755.8 398.0	30.61 27.86	4244.0 2313.9 3918.4	183.09 143.77 244.49	1172.1 915.3 1674.6	3655 3655 3655

few days in October. The tame-grass horse car by the electric motor, the pasture was also scant, and the cows wagon by the automobile, telegraphy pasture was also scant, and the cows were fed alfalfa hay in the lot, and on a few stormy days were fed alfalfa hay in the barn.

Beginning October 16, the herd was pastured on volunteer oats and drilled wheat. Although the cows became accustomed to this gradually, on October 13 Rose of Cunningham and Molly both bloated. Rose of Cunningham was so bad that it became necessary to punc-ture her with trocar and canula. She

The sorghum pasture lasted only a the cradle by the self-binder, the old by the wireless system; and then on our Kansas farms, prairie-grass by alfalfa, the nubbin by large, well-matured ears of corn, the scrubby savage cow by a well-kept, finely developed dairy animal, and finally, the little dab of white, milky, tasteless, streaky butter, a remnant of the proverbial corner grocery, by the golden, high-flavored, artis-tic cake of butter, now introduced and used in almost every home throughout the land. This we might call evolution. Some of us here, who are not old yet,

can well remember when such a thing as a cream separator was unknown while to-day it is a part of the parapher nalia of every up-to-date dairy. Time was when we were satisfied if a cow produced annually 100 pounds of but-ter; to-day the 100-pound-butter cow is relegated to the butcher in double quick order to make room for the cow yielding 200 or 300 pounds. We were pretty well satisfied ten years ago if a cow created a gross revenue of \$25 to \$30 per annum, while to-day we expect her to have a credit balance at the end of the year of from \$60 to \$70 and in some instances more.

When I was a boy (that is not very long ago) we thought we had quite a dairy when we milked five or six cows. Now how many dairies there are, with-in a radius of ten miles of Topeka, that have from fifteen to twenty-five and even more cows, nothing unusual, but simply the natural outgrowth of a business that is destined to do decidedly more in the way of adding to the material prosperity of any community than any other department of agriculture, especially in this section of the country so admirably adapted to dairying.

What constitutes an up-to-date dairy? Let us subdivide it into three heads.

First, breed. A breed and type of dairy stock that will produce the very highest quality and largest quantity of milk, possible. I care not so much under what particular name the animal may go, or pedigree, as I do for the in-dividuality, the selection of which, of course, is largely a matter of systematic study and practice, upon either of which I claim to be no authority what-

Second, feed. It makes no difference how good a machine one may have, un-

We have virtually gone mad over anx- ate as one that would cost \$500, but it iety to have a high test, regardless of, beats nothing and pays a big interest and oftimes at the expense of other on the investment. Of course it means

Creamery Butter 28 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 25 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.

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.



Company,

(Formerly U. S. Butter Extractor Co.)

some work, but then who ever saw a successful dairyman who did not like his work? I have not. If there is one I would like to see him. He would be a curiosity.

You know Secretary Coburn has said You know Secretary Coburn has said that any man who is lazy, or does not work before breakfast, has no business to engage in dairying, and I quite agree with the Secretary. Better stay out of it if you think there is too much work. On the other hand I could cite you to a number of instances of farmers not twenty miles from here who are in love. twenty miles from here, who are in love with their cows, second only to the love of their wives, who contentedly handle from fifteen to twenty-five cows and care for the milk along the lines indicated before. They are getting all the way from \$100 and \$150 per month from their herds, with an atmosphere of prosperity about them that can not be gainsaid.

I tell you there is something in this dairy business. It pays to be up-to-date too. True, not every one is fitted for dairying. Some make a success with poultry; others with hogs. So with dairying. We in all have our inclina-tions, adaptabilities, some in one line and some in another. Let us first choose that branch that would seem most to our liking and taste and then follow it in an up-to-date manner.

Miscellany.

October Exports.

October exports of corn are less than in October of last year, by reason of the very great shortage in corn due to last year's drouth, the total value of corn exported in October, 1902, being \$734,-682, against \$2,348,640 in October of last year; while for the ten months ending with October, the value of corn exports was \$5,395,010, against \$47,283,459 in the corresponding months of last year. In wheat, which has shown a material reduction in exports in the last few months when compared with the extraordinarily high figures of the corresponding months of the preceding year, the figures for October show a marked improvement, the total value of wheat exported in October, 1902, being \$12,-458,688, against \$10,515,414 in October of last year; while flour exports for October of the present year are valued at \$7,243,914, as against \$6,066,561 in October of last year. Breadstuffs as a whole show a total of \$21,900,802 in October, 1902, against \$20,372,325 in October, 1901. Exports of provisions and live animals are still below those of October of last year, and figures for October of the present year being \$15,060,173, against \$18,225,505; while for the ten months provisions and live animals show a fall in exports of 33 millions as compared with the corresponding months of last year, and breadstuffs a fall of 81 millions. The above figures are from the preliminary statement of the Bureau of Statistics, and are slightly below the final figures which will not be completed until the close of the

The following table shows the October exports in each year from 1895 to

1002.	
Month of October—	Total exports, Dollars.
1895 1896	87,090,972
1897 1898	
1899 1900	125,966,527
1:01	
1902	143,179,752

Draft of Farm Wagons.

How to get the easiest drawing wagon, combined with convenience of loading, is always a question of practical in-Too high a wagon means extra labor in loading and unloading. Too low wheels means heavier draft. How to get the golden mean for everyday work is the question.

This question has had special attention for years from the Missouri Experiment Station, which has recently issued a bulletin showing the aggregate results of the tests made. The draft was determined by the use of a self-acting dyna-

The net load was in every case the same, viz.: 2,000 pounds. Three sets of wheels of different heights, all with six-inch tires, were used as follows: Standard, from wheels 44 inches, rear wheels 55 inches. Medium, front wheels, 36 inches, rear wheels 40 inches. Low ront wheels 24 inches, rear wheels, 28 nches. As summarized by the assist-int who had charge of the experiments he teachings of the tests are as fol-

1. For the same load, wagons with heels of standard height drew lighter han those with lower wheels.

2. The difference in favor of the standard wheels was greater on road surface in bad condition than on good road surfaces.

3. Low wheels cut deeper ruts than

those of standard height.
4. The vibration of the tongue is greater is greater in wagons with low wheels.

5. For most purposes wagons with low wheels are more convenient than those of standard height.

6. Wagons with broad tires, and wheels of standard height are cumbersome and require much room in turning.
7. Diminishing the height of wheel

from 36 to 35 inches in front and 44 to 40 inches in the rear did not increase the draft in as great proportion as it

increased the convenience of loading and unloading the ordinary farm freight. 8. Diminishing the height of wheels below 30 inches front and 40 inches rear, increased the draft in greater proportion than it gained in convenience.

9. On good roads, increasing the length of rear axle, so that the front and rear wheels will run in different tracks to avoid cutting ruts, did not increase the draft.

10. On sod, cultivated ground, and bad roads, wagons with the real axle longer than the front one drew heavier than one having both axles of the same

11. Wagons with the rear axle longer than the front one require wider gateways and more careful drivers, and are on the whole very inconvenient, and not

to be recommended for farm use.

12. The best form of farm wagon is one with axles of equal length, broad tires, and wheels 30 to 36 inches high in front and 40 to 44 inches behind.

A knowledge of the above facts is important to the farmer who is desirous of doing the best work with his wagons and at the same time conserving the energy of his teams.

World's Wheat Crop.

An estimate of the world's wheat crop, compiled by the Russian minister of agriculture, gives the crop of exporting countries at 2,021,475,709 bushels, compared with 2,013,225,757 bushels in 1901. In importing countries the yield was 886,678,021 bushels, an increase of almost 80,000,000 bushels over 1901. The aggregate world's crop is 2,908,153,730 bushels, or 88,000,000 bushels in excess of last year. Datally by countries of last year. Details by countries com-

IMPORTING COUNTRIES.

	COCATALAND.							
Countries-	Bu 60 lbg							
Great Britain	E9 154 010	Bu. 60 lbs.						
Germany	03,104,312	56,205,837						
Germany	137,786,879	91,815,989						
France	348,451,635	307,388,463						
Belgium	15,505,598	13,117,344						
Honand	5.598.073	4,228,799						
Austria	47.766.295	44,026,823						
Switzerland	4.301.025	3,440,941						
spain	126 163 399	123,296,049						
Portugal	5 724 700							
Italy	190 571 040	10,035,725						
Greece	120,571,946	133,045,270						
Greece	5,734,700	5,161,109						
Denmark	2,719,288	955,181						
Sweden	4,014,531	4,354,593						
Egypt	9,175,610	10,035,725						
V_ 7 C C A								

Total for importing countries......886,678,021 807,107,857 EXPORTING COUNTRIES.

	O C C A L A A A A A A A A A A A A A A A A						
Countries	Bu 60 lbs	1901. Bu. 60 lbs.					
Russia	487,521,720						
Hungary	186,703,966	427,780,447					
Poumania	100,103,900	132,966,433					
Roumania	77,016,996	73,142,703					
Bulgaria	43,010,250	38,709,225					
Servia	11,022,806	8,102,491					
Turkey	68,816,399	61,648,024					
Algiers	33.803.913	22,281,548					
Tunis	10,466,068	8,171,707					
East India	220,788,955	248,593,946					
United States	656,782,030	750,000,010					
Canada	07 001 775	756,269,573					
Morriso.	97,001,775	87,555,891					
Mexico	3,637,755	3,233,292					
Argentina	69,628,334	74,751,525					
Uruguay Chile	2,273,293	3,233,292					
Chile	8,602,050	9,462,134					
Australia	44,399,385	57,323,520					
100 POOR (NO.) 70 PO							

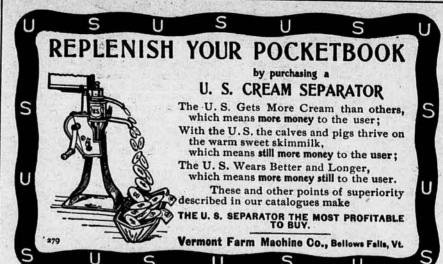
Total for exporting countries.....2,021,475,709 2,013,225,757 Grand total......2,908,153,730 2,820,333,614

There is more Catarrh in this section of the country than all other diseases put together, and until the last few years was supposed to be incurable. For a great many years doctors pronounced it a local disease, and prescribed local remedies, and by constantly failing to cure with local treatment, pronounced it incurable. Science has proven catarrh to be a constitutional disease, and, therefore, requires constitutional treatment. Hall's Catarrh Cure, manufactured by F. J. Cheney & Co., Toledo, Ohio, is the only constitutional cure on the market. It is taken internally in doses from 10 drops to a teaspoonful. It acts directly on the blood and mucous surfaces of the system. They offer one hundred dollars for any case it fails to cure. Send for circulars and testimonials. Address,

dress, F. J. CHENEY & CO., Toledo, O. Sold by Druggists, 75c. Halls Family Pills are the best.

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 induire of any Chicago Great Western agent; ## J. P. Elmer, G. P. A., Chicago, Illi



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St. Joseph, Mo.

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The J. P. Baden Produce Co. Winfield, Kansas. -

We will bind ourselves to buy your Separator Gream from gal Separator

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:

We want your Cream; but you can stop shipping at any time 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.

1HE J. P. BADEN PRODUCE CO., Winfield, Kans.



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May be indulged in the year roundgolf, tennis, automobiling, sailing, kodaking, fishing. No cold weather. Take the luxurious California Limited, Chicago to Los Angeles and San Francisco. You will enjoy the dining-car service.

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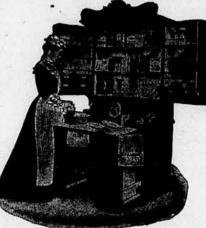
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Contains three tin-lined Flour Chests: Kneading Board; Bread and Meat Cutting Boards; fine tin Spice Boxes; six Small Drawers; two Large Drawers; one Capboard and seven shelves; 3 feet 2 inches wide, 25 inches deep, and 6 feet 6 inches high, a little less ficor space than a kitchen table. Ask your Furniture Dealer for a descriptive circular or write for one to the

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The Poultry Hard.

Points in Poultry-raising. P. H. JACOBS, IN FARM AND FIRESIDE.

LITTER FOR SCRATCHING.

Any place to which the hens will re sort may be used for scratching. They prefer to be under a shed in winter, or a shady place in summer. Anything in which the hens will scratch will answer, such as leaves, chaff, cut straw, or even dirt. Sprinkle a little whole grain in the litter once a day, and the hens will soon learn to hunt for it. It is not the quantity of the grain that should entice them. Only a small proportion is enough, as it should be the aim to keep the hens busily at work, in order to keep them in condition.

MENS FOR SITTERS.

The best hens for sitters are those that are active and of medium size. clumsy hen should not be used. Small hens also usually make excellent layers, as they do not become fat so readily. As long as a hen is laying regularly there is but little liability of her becoming too fat, as the production of eggs demands all the nutriment of the foot; but such foods should not consist largely of corn-meal. As soon as a hen ceases to lay she will become fat, and the feed should then consist principally of grass and meat, with grain at night. Hens that are too small can fly over tall fences, while those too large are clumsy, the best for general purposes being of medium size.

QUALITY FOR MARKET.

It does not follow because a fowl seems to be of good size and nicely grown, that it is marketable. The 3months-old chicken may have a big frame and the making of a good table bird, but unless it carries flesh, only disappointment will accrue when the accounts of sales come in from your marketman. The most certain way of fattening the young chicks is to shut them up in properly constructed coops for fifteen or twenty days, and feed them every three hours. The earlier in them every three hours. The earlier in the morning the first meal is given, the better. Their diet should consist of buckwheat-meal or corn-meal mixed with milk to the consistency of crumbly dough; a little crude tallow added is also good. Give milk if it is plentiful.

POULTRY-HOUSE ARRANGEMENTS.

Never crowd too many hens together. In building a coop or poultry-house, dimensions of eight by eight feet allow of cutting sixteen-foot boards to the best advantage, and waste of lumber should always be avoided. If the house is eight by eight feet it should not contain over a dozen hens. The roosts should be at the back, with nests under them, the top of each nest being a board three feet wide, so as to catch the droppings of the roost. There should be two roosts, each eight feet long, which will give sixteen feet in length of roost. A foot space on the roost should be allowed each bird, which admits of sixteen hens being kept together; but, as was stated, it is best not to have too many together, and a dozen will be bet-ter than a large number. The nests should not be over a foot high, and the roosts may be only six inches from the top of the board over the nest. This will bring the roost eighteen inches from the floor, thus avoiding sore feet, as the birds will not be compelled to jump a great distance.

BREEDS AND PROFIT.

as in the keeping of larger live stock. Poached eggs free from all obectionable If one makes a specialty of raising poultry for market the weights should be as heavy as possible, as the sales are made by the pound; but if eggs are to be depended on as contributing a portion of the profits, then weight must not be considered. It is no disadvantage to have a large, heavy laying hen if weight and egg production can be combined, but as a rule the very heavy hens are not the best layers. With larger stock there are special beef breeds, while others are intended for milk. These others are intended for milk. characteristics are, of course, impossi-ble with birds; but nevertheless there are breeds that excel in egg production, while others readily convert food into flesh. The poultryman who contemplates the management of a poultry establishment should have a definite purpose in view, and in the beginning select those breeds which best conform to his requirements, as any mistake lution of 5 per cent of gum arabic and 1 superior to both as an egg preservative, made occasions the loss of at least one per cent formalin. Outward appearance "Moreover, it is cheaper and pleasanter year's time. Hence, do not aim for inferior to those in foregoing tests; to handle."—Grecer, London:

heavy fowls unless you intend to make a specialty of weight. The different breeds all have their peculiar character-

KEEPING LARGE NUMBERS.

With a flock of ten or twenty hens the poultryman has an opportunity of giving daily attention, and if anything goes wrong it is quickly noticed; but when large flocks are kept, the matter of having them always in proper condi-tion is one of anxiety. In order to give all his attention the number of hens must be sufficient to remunerate the poultryman for his labors. If this is not done there will be no profit. If the number is too small the labor will be too large an item, and failure will be the result. It is on this point that a majority of failures occur. It may be safely stated that 500 hens will support a moderate family, and there are few persons who keep more than that number; but, like any other occupa-tion, the expenses must be taken out, and whether the expenses are too great or not depends upon the extent of the operations. As one man can attend to 1,000 hens nearly as well as he can 500, it is plain that the smaller the flock, the greater the proportional expense. Many make the mistake of endeavoring to keep too many fowls together, thus not only inviting disease, but, more frequently, lice. When lice make their appearance in a large flock of several hundred it is usually an end of the enterprise, as the labor is at once doubled. By beginning with clean premises, and cleaning them daily, as is done with stables, much difficulty may be avoided. Large flocks may be kept as easily as small ones if divided into families, and attention and vigilance bestowed.

Experiments in the Preservation of Eggs.

The official organ of the Board of Ag riculture states that, during the past three years, some interesting experiments in the preservation of eggs have been carried out by Mr. F. T. Shutt, chemist to the experimental farms of the Canadian Ministry of Agriculture. The eggs used in these investigations were quite fresh, being supplied by the poultry department of the experimental farm, Ottawa, and taken from the nest within a few hours of being laid. In the experiments of 1898-99 some of the the experiments of 1898-99 some of the eggs were treated in the first week of October, and tested at the beginning of the following March; while a number were retained under experiment until December, 1899, a period of fourteen months. The preservatives employed were saturated lime-water; lime-water plus 10 per cent of common salt; 10 per cent solution of water glass (sodium cent solution of water glass (sodium silicate); 5 per cent glycerine; and dis-tilled water. Some of the eggs were left in the solution for a few days, while others were left in the solutions throughout the entire period of the experiment. The coating of the eggs with paraffin was also tried. After a care-ful examination of the eggs, including poaching, it was concluded that saturated lime-water gave by far the best re-

During the past year several of the above-mentioned trials were repeated. The efficiency of certain other methods for egg preservation that have received attention from time to time in the press was also tested. The experiment was begun on June 5, and the eggs examined on December 10. Three eggs from each experiment were poached.

Briefly stated, the results were as fol-

1. Eggs immersed continuously in saturated lime-water. Outward appearance excellent; yolks non-adherent, of good color, and fairly globular; albumen somewhat more limpid than in fresh There is as much difference in the leggs, and slightly discolored; a very keeping of the several breeds of fowls sight "stale" odor; air space normal. taste and of good appearance.

2. Eggs first smeared with vaseline and immersed continuously in lime-water. Externally somewhat darker than the foregoing and rather greasy; yolk globular and of good color; albumen a very faint yellowish tint and somewhat limpid; a very slight "stale" odor; air space normal; poached egg very similar to that in 1.

3. Eggs continuously immersed in 2 per cent silicate of soda. External appearance good, and very similar to that of eggs in lime-water; yolk globular and of good color; albumen but very slightly discolored, almost normal; marked odor of a "soapy" character; which is further developed in poaching; air space normal; poached egg of very good appearance, but with a faint "stale" flavor.

4. Eggs continuously immersed in so-

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fits every requirement. Has our special bull's eye lens on perforated plate. Makes a singularly strong white light and throws it long way ahead. Holds oil enough to burn 17 hours. Ask your dealer for it and all "Dietz" lamps and lanterns. They are the best. Write for free catalogue.

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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.

CHOICE COCKERELS FOR SALE—Sliver Spangled Hamburgs, R. C. and S. C. B. Leghorns \$1. S. C. Black Minorcas \$1.50 each, Mammoth Bronze turkey toms (spring hatch) \$3 Send your order early and get the best. Vira Bally, Kinsley, Kans.

I HAVE some very fine pedigreed Scotch Collie pups for immediate shipment. I also have some extra fine B. P. Rock hens and young cockerels will sell at a bargain if taken soon, as I need the room. Can furnish pairs, trice or pens headed by a male no kin to hens or pullets.

W. E. WILLIAMS, Stella, Neb.







Cochins, Light Brahmas, Black Lang-shans, Silver Wyandottes, White Wyan-dottes, 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.

yolks attached to shell; albumen decidedly discolored; odor not marked; air space normal; appearance of broken eggs much inferior to those in preceding test; developing marked flavor on poaching.

5. Eggs continuously immersed in 5 per cent gum arabic, plus 5 per cent salicylic acid. Preserving solution quite mouldy and with a very bad smell. Egg. shells quite soft. The broken egg, though not unsightly, had a very nauseating odor, and was quite unfit for

6. Eggs continuously immersed in 5 per cent dextrin plus 5 per cent sali-cylic acid. Preserving solution very mouldy and smelling badly. Egg-shells soft, and contents unfit for food.

7. Eggs dipped momentarily in dilute sulphuric acid, then washed and stored in a large bottle. All exceedingly bad; contents very offensive.

8. Eggs dipped momentarily in sul-phuric acid, washed and dipped in alkaline ammonium oxalate, then stored in large bottle. All the eggs very bad, and contents offensive.

These experiments corroborate many of the results obtained in the previous year, and are held to afford further proof of the excellence of the eggs preserved in saturated lime-water. Mr Shutt thinks that, on the whole, 2 per cent sodium silicate gives better results than the 10 per cent solution, but he is also of the opinion that lime-water is

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This machine will sow evenly any seed that is sown broadcast. It is more compact and convenient to operate than any similar mobile made. It is strong into the made, it is strong into the machine strong into the machine while this often holds good will be given an opportunity to have the entire cost of his machine refunded in cash.



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Ladies Our monthly regulator never fails. Box FREE. DH. F. MAY, Bloomington, III

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Built by the Union Stock Yards and Transit Company of Chicago for the convenience and free use of national breeders' associations and for permanent headquarters and offices for the various pure-bred live stock records.

The Cow-Pea in Kansas.

HOOVER, CHEROKEE, KANS., WESTERN BREEDERS' JOURNAL.

The farmers of Cherokee County have found the cow-pea one of the best of forage plants and one that brings more nitrogen into the ground than any other plant we can propagate. I was astounded on looking over an old report issued by one of our leading State experiment stations giving out that the stock at the station refused to eat cow-pea hay and that the plant was of little use save possibly as a soil renovator.

There is no animal in our domestic economy that I know, that refuses to eat it green or as a forage. Horses, sheep, and cattle eat it and hogs are lovers of it in green state, and eat the leaves and stems quite freely in winter unless they have cane or green wheat in their bill of fare. For cows it is an excellent balancer of a corn ration and increased the butter yield beyond belief. My own farm cows were making thirty pounds butter per week. When the cow-pea forage gave out they dropped to seventeen pounds per week. I attributed part of decrease to the exceedingly cold weather that followed about this time. Mr. King, of Edna, Kans., who runs a creamery, fed cows pea hay and when it gave out near springtime and he had to use other forage, his butter yield dropped from ninety pounds to seventy pounds per week. These results occured only when the hay used was rich in pods of ripe peas. Late-sown cowpea hay on which pods have not had time to form it not so reliable but far time to form is not so valuable but far a legume and has to be sowed each spring. There is hardly a spot in Kansas where it will not grow and it will fertilize any ground on which grown. fertilize any ground on which grown. The seed is highly nitrogenous and is very valuable to balance the average ration used by the Kansas farmer. No soil inoculation is needed and the crop is sowed and mowed and cured as the average hay crop. One can pull up a plant in forty days after sowing and see many nodules attached to the roots. Alfalfa looks no more luxurious in its very best growth than a field of cowpeas. It will bloat cattle or sheep but hogs revel in its luxuriance and a favorite method is to sow a lot and hog

Cherokee County having a pretty tough subsoil, has not as yet grown alfalfa to any extent, although we, I think, falfa to any extent, although we, I think, at last, are getting the "hang of it." In lieu of it we have raised cow-peas. The methods are many and each farmer uses of the same week. Tickets will be on sale for return passage until and including for retu that best suited to his conditions. Some sow in the corn just before the last plowing, then getting the corn out, turn in the stock. The pea forage is gener-ture passage until and including Monday, January 19. This is the week in which the new State administration will be inaugurated and the new legislature convene.

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ally ripe and dead, standing upright between the rows, and the stock con-sumes it thus without danger of bloat. Horses will eat the dead vines into the ground. Others sow in rows, stopping up all holes in a three-horse drill but three, letting the peas drill through these holes as the drill is set for sowing wheat. Still others use a corn-planter to drill with. When sowed thus the plants are cutivated a few times. They spread soon so as to cover the ground between the rows. Others drill them in with a wheat drill, all holes open, set at a bushel or a bushel and a peck for wheat. A yield is sometimes made thus of three tons per acre. If one has a small farm, however, he can raise a crop of oats or wheat and getting his grain off the ground immediately, get in a crop of cow peas, which will yield a ton per acre of most highly nitrogenous forage, and leave his ground in the very best shape to follow with a corn crop. If the land is very much worn the crop can be plowed under while green, which of course will do more in reviving it.

The value of cow-peas is twofold, namely, in value of forage and in manurial qualities. We talk a good deal in Kansas about conserving moisture, but how about conserving the fertility of the soil? We can work old horses all day but we have to feed them well. We can milk the cow say nine or ten months at a stretch but we don't neg-lect her rations. But how about our soil? Do we give it the care we should? Hardly. And yet it is not such a big job. We may not be able to get manure, The writer stands for the cow-pea ev-ery time. It is as the Irishman said of his whisky: "Good any way you take it."

Farmers' and Breeders' Week at Topeka.

The Western Passenger Association has notified Secretary Coburn that a round-trip rate of a fare and a third, open to everybody, has been granted on all Kansas railroads, also from Kansas City and St. Joseph, Mo., for the thirty-second annual meeting of the State Board of Agriculture, which will be held in Topeka, January 14, 15, and 16. The annual meeting of the Kansas Improved Stock-Breeders' Association will be held



I.W.C.T. Stands for Illinois Wire corrections. Stands for Illinois Wire corrections. The best tie of economy has no equal. It combines strength and durability, ease and rapidity of application, and is adapted to any Endorsed by Ginners, Compressers, and Exporters. Write for circular and prices.

WM. CHRISTIAN, Agent, 2031/4 Main Street, Houston, Tex.

Herefords AT AUCTION!

Ispersion of Maple Glen Herefords, property of T. H. Pugh, of Oarthage, Mo., at the Kansas City Stock Yards Sale Pavillon, on December 10, 1902.

13 BULLS—good ones, 6 imported, including a half brother to Unionist, first at Hereford and Evesham, half brother to Bruce (sold to O. Harris for \$1,300.) These two were bred by Morris. Also half brother to Evolution, winner at Hereford and Evesham, that succeeds Mr. Naye's \$6,000 Protector, at Lower Eaton, half brother to Lady Polly, winner at Hereford and Evesham, that succeeds Mr. Polly, winner at Here ford and Evesbam.



THE sale is composed largely of COWS that are the dams of among the greatest prize winners on either side of the Atlantic. Their yearlines and calves are sired by Lucifer 108930, that stood at the head of the first the head of the first prize calf herd at Hamline in competition with all the foremost herds in this country.

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Col. R. E. EDMONSON, Col. B. F. BOLAND,

write for T. H. PUGH, Caithage, Mo



"FOLLOW THE FLAG."

5 DAILY TRAINS 5 Kansas City St. Louis

FINEST EQUIPMENT.

SMOOTH TRACK.

NO DUST.

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., Ransas City.

The Veterinarian.

We cordially invite our readers to consult us whenever they desire any information in regard to sick or lame animals, and thus assist us in making this department one of the interesting features of the Kansas Farmer. Give age, color, and sex of animal, stating symptoms accurately, of how long standing, and what treatment, if any, has been resorted to. All replies through this column are free. In order to receive a prompt reply, all letters for this department should give the inquirer's postoffice, should be signed with his full name, and should be addressed to the Veterinary Department, Kansas Farmer, Topeka, Kans.

Enlarged Glands.—I have a fine calf, almost thoroughbred, and when about 2 weeks old, I noticed a large swelling on weeks old, I noticed a large swelling on each side of the head, almost on a line passing through the points where lower jaw is poined to head. I opened them but they had nothing in them. They were just like solid meat. About a week later I found a large and hardened swelling on each side of base of neck, just in front of shoulders; also same kind and form of swelling on each side, just in front of flank. Each swelling has its exact counterpart on opposite side and in same corresponding position. The in same corresponding position. The calf was in a box stall and could not have been hurt, and shows no symptoms of disease except occasional loss of appetite and thinness of flesh.

Preston, Pratt County. Wm. Ward.
Answer.—Give it 10 grains of iodide
of potassium once a day in half a teacup of warm water, for ten days. Wait a week to repeat.

Distemper.—I have a hound pup 5 or 6 weeks old, which seems to be weak in his front legs or shoulders. He walks all right for a few minutes, when he an right for a few minutes, when he suddenly commences walking on his toes with his knees bent as if his shoulders were drawn. Finally he is hardly able to crawl and trembles continually. times in attempting to follow his mother through the weeds and was not found for some time. The last time we found him he was so weak and trembling that he had to be carried. Since then he has acted as I described. At first his eyes seemed weak and I thought he would go blind. An old colored man told me that the weakness of his eyes was caused by cockleburs. WM. Morron.

jerk and when listening to her windpipe one can hear a clear piping sound at each breath. Her appearance is very gaunt and dejected. Her endurance is cut down by a mild return of these symptoms. These periods generally last several days. What can be done to H. S. F. improve her condition?

Blue Rapids, Marshall County. Answer.-Proper attention must be

paid to the diet. Water a half hour be-fore feeding and give nothing but the very best food. Give good, light prarie hay and only at night, and then sparing-ly and dampened before feeding. Give tincture of nux vomica 5 ounces. Fow-ler's solution 10 ounces. Mix and give a tablespoonful twice a day for a week, and then half a tablespoonful twice a and then half a tablespoonful twice a day in bran. Lobelia fluid extract in doses of about one teaspoonful two or three times a day will usually relieve the distressing symptoms.

Gossip About Stock.

(Continued from page 1161.

of hogs of serviceable age in the country, it behooves intending purchasers to place their orders promptly. Recently the writer paid his first visit to the herd of Achenbach Bros., of Washington, Kans. They have one of the best herds the writer has ever seen both as to breeding and individual excellence. This firm wisely started with the best foundation stock obtainable and have been quite skillful and successful in maintaining a herd of superior merit, discarding all animals that were not up to their standard of excellence. The herd sire, now in use, is Baron Duke XXX 50017, by Baron Lee IV 33446 out of Duchess CXXXV 33683. He is an excellent sire and his get have good size, style, with good bone and splendid hams. The brood sows are ideal dams of the Duchess, Premier, Romford, Highclere and Nora strains. One of the brood sows has raised five litters of eleven each, fifty-five pigs in thirty months. At present Achenbach Bros. have about fifty fall and spring pigs for sale, but are now closing out at a special price, a number of yearling boars, as per advertisement on page 1173. Achenbach Bros. not only breed high-class Berkshire hogs but brees. Double Standard Polled Durham cattle and White Plymouth Rock chickens, and are ambitious to have the best establishment for those classes of stock in the West. (Continued from page 1161.

Publishers' Paragraphs.

In view of the forthcoming State meetings by the stock-breeders, members of the State Board of Agriculture, members of the Legislature, the new advertisement of the Hotel Oxford will have a special interest. Mr. Frank Long, the proprietor, has been the leading restauranter in Topeka for a number of years. He has now moved into new quarters at 604-6 Kansas Ave., and the new Oxford will be run on the American and European plan and he is anxious that visitors to the capital will give his new establishment a trial, and thinks that both the prices and cuisine will be sufficiently attractive to make such visitors permanent patrons of the Hotel Oxford. In view of the forthcoming State meetings

seemed weak and I thought he would go blind. An old colored man told me that he weakness of his eyes was caused by cockleburs.

W. MOSTON.

Alchison, Atchison, Ounty.

Answer.—Give him El Calisaya bark, iron, and strychnine, I ounce, syrup of buckthorn, I ounce. Mix and give hait a teaspoonful three times a day. Rub his front legs with a little alcohol in water once a day, and he will soon strengthen up.

Diarrhea and Inflammation.—I had six horses and a young colt take sick wille running in pasture about six days after the first frost. The horses took a diarrhea and a 13-monthe-old colt took inflammation of the bowels and ided in three days. The first treatment was for colle, then we gave tincture of aconite root, which relieved him some. I then called in a veterinary surgeon and he continued the treatment. What was the cause of the diarrhea? Was it eating frosted grass? The colt that died actives the best treatment for this sickness?

Beattle, Marshall County.

Answer.—This was probably caused by frosted grass. Treatment should have been oils, opiates, and followed up with stimulants and tonics.

Bloating.—I would like to have some information with regard to tapping cattle when bloated by eating affaira.

Answer.—Directions for using cattle trecar: Place the instrument on the skin of the left side, at a point quite skin of the left side, at a point quite skin of the left side, at a point of the hip. Slant the trocar slightly and give it a tap with the right hand, sufficient to send it through at once. Pull out the trocars and leave the canula in until all danger is past. When you remove the canula press the skin down tight with the left hand so as not to pull it up.

Asthma.—I have a bay mare 16 years old, which at intervals, probably not more than half a dozen times during the summer, has great difficulty in breathing and seems very much exhausted with little exertion. While in this state for breathing is done with a sudden ferror and described. Her endured is very care and the content in the summer, has gre

Do you know that sick headache is a typical nervous disorder and that the theory that it is caused by some derangement of the stomach or liver is unscientific and not sustained by facts? Everybody knows that injuries and diseases of the brain often produce vomiting and that a disgusting mental impression will cause sickness of the stomach in many persons.

A leading nerve specialist after long experience states that the first symptoms of an attack of sick headache are always felt



Rose Peterson, Secretary Parkdale Tennis Club, Chicago, from experience advises all young girls who have pains and sickness peculiar to their sex, to rely on Lydia E. Pinkham's Vegetable Compound.

How many beautiful young girls develop into worn, listless and hopeless women, simply because sufficient attention has not been paid to their physical development. No woman is exempt from physical weakness and periodic pain, and young girls just budding into womanhood should be carefully guided physically as well as morally.

If you know of any young lady who is sick, and needs motherly advice, ask her to write to Mrs. Pinkham at Lynn, Mass., who will give her advice free, from a source of knowledge which is unequaled in the country. Do not hesitate about stating details which one may not like to talk about, and which are essential for a full understanding of the case.

Miss Hannah E. Mershon, Collings-

wood, N. J., says:

"I thought I would write and tell you that, by following your kind advice, I feel like a new person. I was always thin and delicate, and so weak that I could hardly do anything.

Menstruation was irregular.

"I tried a bottle of your Vegetable Compound and began to feel better right away. I continued its use, and am now well and strong, and menstruate regularly. I cannot say enough for what your medicine did for me."

> How Mrs. Pinkham Helped Fannie Kumpe.

"DEAR MRS. PINKHAM:—I feel it is my duty to write and tell you of the benefit I have derived from your advice and the use of Lydia E. Pinkham's Vegetable Compound. The pains in my back and womb have all left me, and my menstrual trouble is corrected. I am very thankful for the good advice you gave me, and I shall recommend your medicine to all who suffer from female weakness." MISS FANNIE KUMPE, 1922 Chester St., Little Rock, Ark. (Dec. 16, 1900.)

Lydia E. Pinkham's Vegetable Compound will cure any woman in the land who suffers from womb troubles, inflammation of the ovaries, kidney troubles, nervous excitability, nervous prostration, and all forms of woman's special ills.

in the head, and in some cases several nervous exhaustion and eye strain which hours elapse before the stomach becomes perceptibly deranged.

Dr. Miles' Anti-Pain Pills are equally

If you can not attend church, the theater, places of amusement, parties; if you can not have the least cold, or pass through the least excitement without having headache and other disagreeable symptoms there is evidenced a weakened state of the nerve centers in the brain and to effect a complete and permanent cure Dr. Miles' Restorative Nervine should be taken reg-ularly as directed.

Dr. Miles' Anti-Pain Pills are equally good for all bodily pain. The next time you have an attack of neuralgia, sciatica, lumbago, rheumatism, backache, toothache, or other pain try Dr. Miles' Anti-Pain Pills at our risk.

Pills at our risk.

Anti-Pain Pills are a perfect pocket remedy, as they may be swallowed whole or chewed and swallowed with equally good results. They do not contain opiates nor create a craving, they do not affect the stomach or bowels in the slightest degree and are never sold in bulk. All druggists sell and guarantee them to benefit or money refunded. Twenty-five doses 25 cents, or five packages \$1. They will be mailed upon receipt of price.

Dr. Miles Medical Co., Elkhart, Ind.

THE MARKETS.

Kansas City Stock and Grain Markets.

Kansas City, November 24, 1902. Liberal runs of Western grass cattle constituted the feature of the market here hast week. Total receipts approximated 61,000 head, compared with 36,000 head the same period last year. The proportion of Western cows was the largest of the season and was abnormally big for so late in the fail. Offerings of corn cattle were moderate and prices were generally weaker. Top beeves sold for \$5.75 on Tuesday. This was the best price of the week. A year ago the top was \$5.12½, showing that prices have now begun to seek a lower level after a long season of unprecedented soaring. Both native and Western cows broke under the increased supplies and the markets ruled slow. Best stock caives held about steady while common kinds sold easier. The market for stockers and feeders advanced a trifie the fore part of the week, but liberal supplies had a tendency to wipe out this betterment and the close was at the low point. Feeders and stockers are now selling as cheap as any time this fail and it would seem that country buyers have the opportunity of the season before them.

Hoy receipts here were moderate, the would seem that country buyers have the opportunity of the season before them.

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Hoy receipts amounting to only 57,000 heat reduction frames showed a 40 period last year, yet, in specific solding yet of the season, the such period last year, yet, in specific solding here to the season with the such year showed a 40 period last year, yet, in specific solding yet of the period last year, such period yet of the market but to no purpose. The quality of the market but to no purpose. The qu

South St. Joseph Stock Markets.

South St. Joseph, Mo., November 24, 1902. The cattle market suffered another severe set-back in sympathy with the bad conditions existing at other points, prices showing a still further decline of 15v025c with the good class of corn cattle bearing the brunt of the loss, while Southern steers held fully steady. Cows and heliers grading above the canner order sold 10015c lower, but canners sold steady. Stockers and feeders lost 10025c in value.

The trend of hog prices was higher early

er, but canners sold steady. Stockers and feeders lost 10@25c in value.

The trend of hog prices was higher early in the week on account of light receipts, but with an increased supply and adverse conditions East, local buyers wiped out the above advance and the week closed with prices much lower for the week. The bulk of arrivals ran to heavy weights of good quality. Prices to-day ranged from \$6.10@6.17½, with the bulk selling at \$6.12½@6.15.

Owing to the moderate supplies in the sheep department sellers had no trouble in holding prices fully in line with the close of the previous week, although conditions East were to the adverse. The market had plenty of activity with the demand far ahead of the supplies of fat grades. Native lambs sold at \$5.40, wethers \$4.25, and ewes, \$3.75, which grades, however, were the best seen here this season. The feeder market was fairly well supplied and the movement to the country was fairly good at 10@15c lower prices.

Lawrence Seed Market.

Lawrence, Kans., November 17, 1902. We give you to-day's buying prices in our market. Outside prices are for best grades:

Alfalfa	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		.50@ .60
F. Barte	Repla	& Co.

Trying to farm without a good farm paper is like trying to sharpen a lead pencil with a pair of scissors. Take the KANSAS FARMER.

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 at less, per week. Initials or a number counted as one word. Cash with the order. It will pay. Try it.

CATTLE.

HEREFORD MALES—Three 2-year-olds, two year-lings, seven calves, \$75 to \$125, sired by Socrates 75813; two unregistered calves, \$35 and \$50; ten male calves, high-grade, \$25 to \$35. A few Poland-China males, registered, 159 grade cows in calf by registered Here-fords, \$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, McCrack-en, Kans.

FOR SALE—Twenty Hereford bulls, 8 to 16 months old, grade % and better. Seb Wertzberger, Volland, Kas

CATTLE OR SHEEP RANCH—2,300 acres—100 acres hay land, 200 acres alfalfa land, two miles river front, permanent range, rive-room house, stock sheds, good grove. One or the best sheltered ranches in wester Kansas, Price \$5,400. Will sell all or part. W. S. Pittman, Pierceville, Kans.

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

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

FOR SALE—Ten young Hereford bulls from the Evergreen Farm herd, headed by Lee 121232. Address Pearl I. Gill, Great Bend, Kans.

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

FOR SALE—My herd bull, Baron Knight 184946, got by Galiant Knight 124468, four years old, dark red, weight 2,200 p.unds; also four Scotch-topped bulls from eight to twelve months old; all red. 1 also have a few cows and hetters for sale, and a fine lot of Light Brahma cockerels. J. P. Engle, Alden, Rice Co., Kans.

FOR SALE—Guernsey buils from best registered stock. J. W. Perkins, 423 Altman Building, Kansa City, Mo.

FIVE HEREFORD BULLS FOR SALE—Never used in a herd, they are in fine fix, at a bargain for coveren. O. L. Thistier, Chapman, Kans.

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

FARMS AND RANCHES.

FREE 200 printed farm and ranch descriptions in tatastical book. Write G. Winders, Ottawa, Kans

FOR LEASE—A good stock and farm ranch of 1,200 acres, never-failing water, scales and good feed lots, plenty of corn to be bought in neighborhood. Ten miles from St. Marys, Pottawatatomie Co., or 35 miles from Topeka. References exonanged. Can be divided in three parts. Cash for term of years. Theodore Saxton, St. Clere, Kans.

FOR SALE—In the famous Arkansas River Valley, Hamilton Co., Kans., only 1½ miles to railroad depot, 1,040 acres; 800 of this is the finest kind or affalta iand, and when well set in grass will yield an annual net return of \$20 an acre. And we can seil this tract now for the astonishingly low price of \$20 per acre, one-fourtn cash, balance long time, 6 per cent annual interest. A few more bargains like this. This valley is like a gold mine. L. C. Teed, Syraouse, Kans.

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

FOR SALE—320-acre pasture, five miles from Clements, all fenced, fine grass and water. Price only \$9.50 per acre. 160-acre pasture and meadow, all fenced, fine grass and water. \$9 per acre. 160-acre farm—100 acres under plow, some aifaifa, fair house, stables, orchard, corrails, splendid water. A splendid home cheap. Only \$2,100. Jonn G. Howard, sole agent, Emporia, Kans.

FOR SALE—A flue ranch of 520 acres, six miles from Cottonwood Falls, 150 acres in cultivation, alfalfa, flue pasture, living spring water, good buildings, orchard, fences. A snap—\$15.50 per acre. John Q. Howard, sole agent, Emporia, Kans.

FOR EXCHANGE—A modern, 12-room brick residence in Lawrence, Kansas, with six acres of ground, all kinds of fruit, ten minutes' walk from center of town, High School, or State University. Will exchange for good Kansas farm. F. G. Alford, Learnard Ave., Lawrence, Kans.

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

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

FOR SALE—160 acres, two miles east of postoffice, Salina, Kansas. Best stock and darry 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, falfa iand, Sacre peach orchard, 4-roum nouse, parn, 2 wells, all fenced, about half in cultivation, rest in paature. Will sell to close estate. Price \$5,000. Catherine E. Anderson, Admix., Drawer N., Zlon City, Ill.

FOR SALE—Two choice farms of 480 and 357 acres, highly cultivated, choice water, and buildings, fall plowing done. L. Eilers, Letellier, Manitoba,

FOR ALFALFA, wheat, corn, and grass land, improved ranches, and farms, write to M. E. Charvoz Emporia, Kans.

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

FARMS FOR SALE—Of all sizes, on Snokomo creek, rich bottom and slope, timber and fine grass, reliable creek and springs, good buildings and fruit. Telephone and mail, can't be beat for corn, wheat, and alfaifa. At reasonable prices, easy terms. Also horses wanted to winter immediately. Address W. L. Seeling, Paxico, Wabaunsee Co., Kans.

FOR SALE—160 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.

When writing advertisers, please men-tion Kansas Farmer.

THE L. A. ALLEN Cattle Commission Co. JAMES B. HAMPE Salesmen. 25 YEARS IN THE CATTLE TRADE

SELL CATTLE ON COMMISSION And Fill Orders for Stockers and Feeders. Market Price Guaranteed.

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

Thoroughbred Poland-China Boars For Sale

April and May farrow. Large-boned, lengthy pigs, sired by Chief 3d 27415, a randson of Tecumseh Shortstop and out of daughters and granudaughters of Black Model 2d 24672, a great grandson of Klever's Model. Close prices on these pigs to close them out. Write for description or call and see them at farm.

I. S. PLOUGHE @ SON, R. F. D. No. 1, MERIDEN, KANS.

SWINE.

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-ilton, Kearney, Neb.

FOR SALE—A few fine Duroc-Jersey boars, old enough for 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 gitts 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 gilts. H. A. J. Coppins, Eldorado, Kans.

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

FOR SALE—One extra yearling Poland-China boar registered, prize-winner, 11 spring boars, 8 gilts—good ones. Farmers' prices. John D. Ziller, Hiawatha, Kas

PUBLIC SALE at Topeka, Dec. 11, 1802. V. B. Howey of Topeka, will sell 50 head of pure-bred Poland-China and Duroo-Jersey swine. A number of Jersey cattle and Shire-bred mares and

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—mus all go together. W. V. Jackson, Coldwater, Kans.

FOR SALE—Two jacks, coming 3 years old, and one lennet 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.

PROSPECTFARM—CLYDESDALESTALLIONS SHORTHORN CATTLE and POLAND-CHINA HOGS. Write for prices of finest animals in Kansas. H. W. McAfee, Topeka Kansas.

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EMBODEN GEESE—Pure white \$4 per pair. White Guineas \$2 per pair. A few fine Rose Comb White Leghorn cockerels left, \$1 to \$4 apiece. Mrs. Winne Chambers, Onaga, Kans. Snowflake Poultry Farm.

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

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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, fuchlas, fever-few, heliotropes, verbenias, salvias, geraniums, very best sorts and colors, single, double, sliver bronzed and scented; everything in plant line; lists free. Tyra Montgomery, box 186, Larned, Kans.

TREE PLANTS—Honey and Black locust, \$2.75 per 1,000. Write me for big lot and special prices. J. E. Mellecker, Spearville, Kans.

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

MISCELLANEOUS.

BEEKEEPERS' SUPPLIES for winter delivery at Bee Supply House, Topeka, Kans.

WANTED—Men to learn barber trade. New Method, big demand for graduates. Board provided, tools presented, wages Saturdays, write nearest branch. Moler 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, Kansas City, Mo.

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

PATENTS.

J. A. ROSEN, Patent Attorney,

SHEEP.

FOR SALE CHEAP—Shropshire ram of Kirkpatrick's flock, used two seasons on 20 ewes. A. M. Dull, Washington, Kans.

FOR SALE—Nine (9) choice Shropshire rams, all registered, 6 to 8 months old. Anderson & Findlay, R. 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.

300 FERRETS FOR SALE.

Barasworth Bros.,
Elik Falls, Kansas

Immune Hogs.

The pigs are born Cholera-proof.

Innoculation before birth the most scientific and best hit ever made in preventing Hog Cholera. Write for free book and agency.

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Fall Berkshire Boars

For Sale, Quick, At A Reasonable Price



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

DIOK'S PRODUCTS...

Superb warm house shoes. Hand woven; seamless; wool-lined; plant; durable; mall ladies' sizes, \$1,25; men's, \$440. Same make "Feet Warm"; set slippers, \$5 cents and \$1,00. W. H. DICK, Manufacturer, Dansville, N. Y.

AGENTS. \$4 to \$7 a day selling ideal 25c.inhaler. Cures Catarrh, Colds,
Headache, Neuralgia, etc. Sells by letting people try it. Sample 10c. IDEAL SPECFALTY
CO., 120 South 14th Street, OMAHA, NEBR.

RUPTURE OR HERNIA. New and Valuable information FREE, Write MOHAWA REM-EDY CO., Rome, New York.

The Stray List

Week Ending November 13.

Cherokee County—S. W. Swinney, Clerk.

MARE—Taken up by George Thomas, (P. O. Weir
City), October 25, 1902, one brown mare, 7 years old,
scar on neck; valued at \$20.

Week Ending November 20.

Cherokee County-S. W. Swinney, Clerk. HOG—Taken up by Meivin 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. Greenwood County.

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

Elk County-G. J. Sharp, Clerk. STEER-Taken up by T. Chadwick, in Painter-hood tp., (P. O. Busby), October 15, 1902, one red and white spotted yearling steer, crop off right ear; valued at \$15.

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 slit in left ear. Woodson County-J. P. Kelley, Clerk,

HEIFER-Taken up by John Newell, in Everett Nov. 8, 1902, one strawberry roan heifer, about 3 years old; valued at \$20.

Jackson County-J. W. Atwater, Clerk. STEER—Taken up by Frederick Schultz, in Frank-lin tp., (P. O. Holton), Nov. 5, 1902, one roan steer, past 2 years old, about 850 pounds, end of right ear off, left ear split, slit in brisket, and without horns; valued at \$30.

Farms and Ranches.

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 have for sale or what you wish to buy, and we can accommodate almost any kind of a realty deal. Write for our list of bargains. All correspondence will receive our prompt attention. Address

E. C. PREBLE LOAN CO. CUBA, REPUBLIC COUNTY, KANSAS.

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Breeders' Directory.

DUROC-JERSEY SWINE

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

Registered Stock, DUROC-JERSEYS, contains breeders of the leading strains.

N. B. SAWYER, - - Cherryvale, Kaussa M. H. ALBERTY, - '- Cherokee, Kausas

DUROC-JERSEYS.

100 head for this year's trade; all eligible to record

DUROC - JERSEYS.

J. U. HOWE,
Wichita, Kansas.
Farm 2 miles west of
city on Maple Avenue

FAIRVIEW HERD DUROC-JERSEYS Watch for our Brood Sew Sale in February
J. B. DAVIS, FAIRVIEW, BROWN CO., KANS.

DUROC-JERSEYS.

DUROC JER-EYS FOR SALE-Choice July, Aug., and September pigs for sale, both sexes; also 4 19-1 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 pigs 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, Missouri.

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

Swine herd headed by Big Joe 7363 and Ohio Chief Cattle herd headed by Kansas 8398. Young stock for sale in season. PETER BLOCHER. 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 Sen. I Know, he by Perfect I Know.
Address—

F. P. MAGUIRE, Hutchinson, Kansas.

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. SHADY BROOK STOOK FARM

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

H. W. CHENEY, NORTH TOPEKA, KANSAS.

CLOSING OUT

TWO GREAT HERD BOARS FOR SALE.

TWO GREAT HERD BOARS FOR SALE.

One son of Chief Perfection 2d, one son of Perfect
Perfection; both good. Will sell cheap to deliver Decemper 1st or after. Have just weaned 5 splendld lit
ters 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 gilts, 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, Pottawatomie County. C. J. HUGGINS.

POLAND-CHINA SWINE.

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

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

Poland-Chinas of the best blood, both saws and hoars, 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 choice boars and glits at living prices. Will have sows bred 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 275 pounds, and most of them are bred to Black Perfection 27182, the best breeder I ever owned. Also 20 fall plan 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

KNOLLWOOD FARM HERD

LUE BLOODED ROAD BACKED

A few fancy young boars ready for service Orders booked for spring pigs. E. W. Molville, Eudora, Kansas.

PRAIRIE DALE HERD OF POLAND-CHINAS

150 choice spring pigs, sired by five first-class boars, for sale; a son of Chief Tecumseh 2d at head of herd. Parties wishing to visit herd will be met at Abliene, if notice be given. Farm 2½ miles northeast of Abliene.

C. M. GARVER & SON, R. F. D. No. 1, Abilene, Kansas.

CHOICEST STRAINS

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.



IMPROVED CHESTER WHITES Stock For Sale. Farm is two miles northwes of Reform School.

CHAMPION HERD OF ..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. Cholce 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 gilts.

Maple City, Cowley County, Kansas

THE CRESCENT HERD O. I. C. The World's Best Swine.

Hero 13588 (11761) at head, assisted by Teddy R. 13463. holos spring pigs as good as grows, for sale. Only irst-class shipped.

JOHN W. ROAT & CO., CENTRAL CITY. NEBRASKA.

BERKSHIRE SWINE.

Large English Berkshires

Boars and Glits for sale at prices to suit. Write quick and get our prices. Also a few good yearling boars.

Manwaring Bros., Lawrence, Kans.

Berkshire Boars.

Possessing rare quality, substance and finish, of April farrow. Also, October pigs for sale. Spring Brook Farm.

G. W. BERRY. STATION A, TOPEKA, KANS.

HIGH - BRED BERKSHIRES

Of the Leading Families

Herd numbers 150 head. All classes of stock for sale. Satisfaction guaranteed. Shipping station, Polo, 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 44688, the highest priced Berkshire ever sold in Kausas City, is in our herd and there are others like her. Inspection invited six days in the week.

WILL H. RHODES, Tampa, Marion Co., Kana

CATTLE.

COBURN HERD OF RED POLLED CATTLE. Herd now numbers 115 head. Young bulls for sale 800. Greenmiller & Sen, Centrepells, Franklin Co., Kans

D. P. NORTON'S
SHORTHORNS
Dunlap, Morris Co., Kans.
Herd Bull, Imperted British Lien 133699.
Young stock for sale.

Registered Herefords. THOS. EVANS, Breeder,

Hartford, Lyon County, Kansas. Special Offerings: Young cows and heifers, and

Aber sen-Angus. EVERGREEN STOCK FARM.

Have 15 registered bulls—7 to 21 months old, sired by Niel of Lakeside 25645; also registered cows and helfers, highly bred. Will sell in lots to suit. Call or address SEO. DRUMMOND, Elmdale, Chase County, Kansas

North Elm Creek Herd Pure-bred Shorthorns and Poland - Chinas

Scotch-topped Young Mary females with 9th Knight of Elmwood 161507 at head. Call on, or write, W. J. Smith, Oketo, Kas.

SCOTCH-TOPPED SHORTHORN CATTLE. FASHIONABLE POLAND-CHINA SWINE. REGISTERED BULLS FOR SALE.

L. A. MEAD, Carbondale, Kansas SUNFLOWER HERD OF



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Scatch and Scatch-topped SHORTHORN

Andrew Pringle, County, Kanens.

CATTLE.

HEREFORDS FOR SALE. Having sold the most of my herd, I have left for sale 5 fine yearling buils. Write me for particulars. I will sell them cheap. E. S. Cowee, R. R. 2, Burlingame, Kas

ENGLISH RED POLLED CATTLE—Pure-bred
Young Stock For Sale. Your orders solicited.
Address L. K. HASELTINE, DORCHESTER, GREEN
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MEADOW BROOK SHORTHORNS—Ten fine young bulls for sale—all red. Red Laird, by Laird of Linwood, at head of herd. F. C. KINGSLEY, Dever, Shawnee County, Kansas.

CLOVER CLIFF FARM REGISTERED GALLOWAY CATTLE.



Also German Coach, Saddle, and trotting-bred horses. World's Fair prize Oldenburg Coach stailion Habbo, and the saddle stailion Rosewood. a 16-hand 1.100-pound sop of Montrose in service. Visitors always welcome.

BLACKSHERE BROTHERS, Elmsale, Chase County, Kansas.

GLENWOOD HERDS

SHORTHORNS headed by Victor o' Wildword, by Golden Victor, he by Baron Victor. Late herd bull Gloster 137952. Polands headed by Glenwood Chief Again. For Sale—Choice young bulls; also tema es. Prices right. Choice fall boars and gilts cheap. Visitors invited. Correspondence solicited. Address

C. S. NEVIUS, Chiles, Miami County, Kansas to miles south of K. C., on main line of Mo. Pac. R. R.

E. H. WHITE, ESTHERVILLE, IOWA, Importer and Breeder of GALLOWAY CATTLE

HERD FOUNDA-TION STOCK A



Inspection or Correspondence Invited.

O THE O ...N. MANROSE...

Rural Route No. 5, Ottawa, Kansas. Giltspur's Knight 171591 at head of herd. Young bulls ready for service for sale.

A Herd of Red Polled Cattle



For Sale. Headed by Falstaff 3d, the champion of the breed. The show herd has been the leading winner at all the Western State Fairs this year. Address the owner and breeder,

J. H. CROWDER & SON, Bethany, Illinois.

SHORTHORN HERD FOR SALE.

Consisting of nine 1 and 2 year old bulls, fifty cows from 2 to 10 years old, and twenty-five calves by the side. The get of Royal Bates 123675. Biggest Shorthorn Bull in Kansas. Cows bred to Captain of Mayflower, Red Rover, or Royal Bates. Everything in good shape. Call or address, Louis Hothan, Carbondale, Kans.

WAYSIDE HERD OF REGISTERED HEREFORDS.

"ANXIETY WILTONS."

Printer 66684, a son of Beau Brummel 51817; March On 14th 106676, a son of March On 76035; Good Sign 140867, a son of Printer 66684, are the bulls in service. Some excellent young things—both sexes—for sale. Keep your eye on South Omaha, January 22 and 23 W. W. GRAY, Fayette, Mo.

...CHOICE... POLLED DURHAMS FOR SALE.

Herd headed by Young Emperor, 690 Polled Durham Herd Book, and 128130 S. H. Herd Book, which I also offer for sale. Also double standard young bulls, and good grade cows, bulls and heifers for sale. Inspection invited. C. M. ALBRIGHT, GLOBE, DOUGLAS COUNTY, KANSAS Postoffice address, R. F. D. No. 2, Overbrook, Kans.

H. R. LITTLE, HOPE, DICKINSON CO., KANS.,

Breeds Only the Best, Pure-Bred SHORTHORN CATTLE

Herd numbers 185, headed by ROYAL CROWN, 125698, a pure Cruickshank, assisted by Sharen Lavender 143002. assisted by Sharen Lavender 1-9002. FOR SALE JUST NOW—16 BULLS of serviceable age, and 12 Bull Calves, Farm is 1/4 miles from town. Can ship on Mo. Pac., R. I., or Santa Fe. Foundation stock selected from three of the great herds of Ohio.

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Armor Bearer and Lavender King cows with American Royal prize-winner Orange Lad 171599 and Lavender Gloster 166056 in service. Advance Guard and Lavender King yearling bulls for sale. D. K. KELLERMAN & SON, MOUND CITY, LINN COUNTY, KANSAS.

CATTLE.

POLLED DURHAMS.

Three choice D. S. bulls, strong in Polled blood, Cheviot rams, and 30 Shropshire ewes; also register Angora bucks.

A. E. BURLEIGH, KNOX COUNTY, Mo.

ABBOTTSFORD STOCK FARM OF SHORTHORMS For sale, after August 15, the herd bull, Imp. Beauty's Heir 145125; also 30 high grade cows and heifers, good milkers. D. Ballantyne & Sons, Herington, Kans.

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Shorthorn Oattle, and Poland - Ohina Swine-Farm is 2 miles south JAMES A. WATKINS, of Rock Island depot. Whiting, Kans

RED POLLED CATTLE. CHAS FOSTER & SON, Fester, Buttler Co., Kans. FOR SALE—A few calves, also Prize-winning Light Brahma Chickens. Call, write or telephone.

SHORTHORN BULLS FOR SALE: Registered and high-grade Shorthorns of Cruickshank breeding. No better bulls anywhere. Bargains for quick buyers. Address

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Stock For Sale OVERTON HARRIS, Harris, Mo-

JAMES A. FUNKHOUSER. PLATTSBURG, MO., BREEDER OF

HIGH-CLASS HEREFORDS.

BULLS IN SERVICE: Hesled 2d 40679, March On 6th 96537, Hesled 85th 116352, Onward 2d 118599

ALLENDALE HERD OF Aberdeen-Angus Cattle

The Oldest and Largest in the United States. Splendid recently imported bulls at head of herd. Registered animals on hand for sale at reasonable prices at all tiles. Inspect herd at Allendale, near Iola and La Harpe; address Thos. J. Anderson, Manager, Iola, Ailen Co., Kans., R. R. 2, or—

Anderson & Findlay, Proprietors, Lake Forest, III.

Walnut Valley Stock Farm Breeders of Scotch and Scotch-topped

SHORTHORNS. The prize-winning bull, Scott Junior 124222 at head of herd. Choice young bulls and heifers for sale W. J. Snodgrass, Gordon, Butler Co., Kas

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Angus Cattle



Herd headed by Hale Lad 30645. Herd numbers 250 head, the largest herd bred by owner in America. Stock for sale. Address PARRISH & MILLER Hudson, Stafferd Co., Kans

CHAMPION GALLOWAYS

...FOR 1902...

Up-to-date Galloway Cattle, All Ages, For Sale.

Personal Inspection or Correspondence solicited by N. MOODY, Breeder, ATLANTA, MISSOURI.

lighest class females with Hesiod 16th 56466 nd Copyright 90079 at head of herd. CHOICE YOUNG BULLS

ncluding two show animals for sale WESLEY SLOAN, Wellsville, Kansas.

Gallant Knight Bulls. ...tieady tor service...

Ve are letting these go at low prices to make room or our new crop, which is large. Calves by our Imp. illycairn, assistant herd bull, are now old enough to ell. We have long distent phone connections with 50 towns in Kansas. Nearest railroad point, Valencia, in the Rook Island. Visitors always welcome. See ur show herd at Western State Fairs.

T. K. TOMISON & SONS,

Dover Shawnee County, Kans.



M. E. MOORE CAMERON, MO offering some fine Pure-bred HOLSTEIN-FRIES-AN BULLS for sale from official tested dams and res. A few choice females to offer.

Lad ice.

CATTLE.

A. BUMBARDNER & SON, Helton, Kansas, Breeders of RED POLLED OATTLE A herd bull and a few young ones for sale.

ESKDALE HERD OF ABERDEEN - ANGUS CATTLE.

YOUNG STOCK FOR SALE. JAMES FRATER, Fredonia, Wilson Co., Kas

Shorthorn Bulls For Sale From the Valley Grove Herd.

An extra good lot, reds and roans, sired by Lord Mayor 112727 and Knight's Valentine 187068.

T. P. BABST & SONS, AUBURN, KANS. (Telegraph Station, Valencia, Kans.)

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VERMILLION, KANSAS.

Imported Alberta 2d blood. Boatman 55011 at head of herd. A few excellent, young bulls for sale.

Contributor to Marshall Co. Hereford Ass'n Annual Sale. E. E. WOODMAN, VERMILLION, KANSAS.

Weston Stamp Herd HEREFORD CATTLE REGISTERED HEREFORD CATTLE Anxiety 4th females with Weston Stamp 9th at head. Contributor to Annual Sale Marshall County Herefo d Association.

WM. ACKER, Vermillion, Kansas.

Capital Bluff Stock Farm.

HEREFORDS. daechalaureate 81587, bred by Gudgell & Simpson, at head of herd. Write for prices now. Contributor to Annual Salo Marshall County Hereford Association.

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I. D. YARICK, Slue Rapids, Kansas.

SHORTHORN CATTLE, BERKSHIRE SWINE, and SHROPSHIRE SHEEP.

Great constitution and lung capacity gained in high altitudes. A few select young swine and sheep for sale.

ED. GREEN, MORRISON, COLO.

BILL BROOK BREEDING FARM Shorthorn Oattle and Angora Goats.

Herd bull Iowa Scotchman 2nd 138687. Write or what you want. Address,

H. O. TUDOR, Holton, Kansas.

Rocky Hill Shorthorns and Saddle Horses

Sempstress Valentine 157771 and Mayor 129229 at head of herd. Young animals reserved for annual sale at Wellington, Kans., November 22. Larkin's Duluth and Kansas King at head of Saddle Horse Herd.

J. F. TRUE & SON, Perry, Kans. Railroad Station, Newman, Kans.

70 Registered Herefords 🐬



and Heifers, bred to the great herd-bull, Beau Gondolus 133227—sire, Beau Brummel 51817; dam, Gwendoline 10th 71732. For particulars address,

J. A. GARPENTER, Carbondale, Kans.

JOHNSON'S Hereford Ranch.

Herd headed by Dick Turpin 81521. Choice oung breeding animals of both sexes for sale. Parties met at train if notified. L. F. JOHRSON & SON, Route 4, Geuda Springs, Kansas.

HAZFORD HEREFORDS

Herd headed by the young show bull, Protocol 2d 91715, assisted by Major Beau Real 71621 a nephew of Wild Tom. Females largely the get of Bernadotte 2d 71634. A few choice young bulls for sale.

Robt. H. Hazlett, Eldorado, Kans

SHEEP.

ANOKA FLOCKS.

Cotswolds and Rambouillets. Foundation for flocks a specialty. Correspondence and inspection invited. GEO. HARDING & SON, Waukesha, Wis.

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WEST LIBERTY, IOWA. Breeders of PRIZE-WINNING

Shropshire Sheep.

Choice lot of rams and ewes—both Canadian and home bred—for sale. Can supply car lots. Write for our low prices.

SHEEP.

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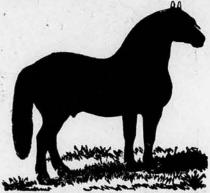
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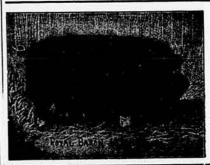
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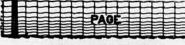
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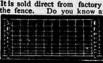
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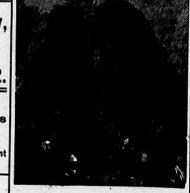
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