KANSAS FARMER

For the improvement

of the Farm and Home

Volume 52, Number 52.

TOPEKA, KANSA VISITING MRER 26, 1914.

Established 1863. \$1 a Year



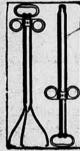
Peace O'er the Land A Happy New Year

ORTLAND

Sold by Leading Dealers Everywhere.

CEMENT

E YOUR PIGS Get a "Sure Getter" FORCEP



The great "Veterinary Instrument" the farmers of the "Hog Belt" are all talking about—the "Twentieth Century Wonder." Gets'em alive and saves the mother. Don't compare them with the old-fashioned Fincher and Loop Forceps that are flooding the country, they do the work. Beautifully nickeled, thus doing away with all possible danger of blood poison to the animal. "Worth their weight in gold" to every farmer. Order one today have it when you need it. General agent wanted, every county in your state.

B. C. FOLLET & CO., 8328 Dupont Ave. So., Minneapolis, Minn.

WANTED MEN 75. to\$ 200 à month!

The demand for capable automobile men receds the supply. Our graduates are always in mand to fill good positions as Salesmen, Demonators, Factory Testers, Garage Managers, Repair ten, Ignition Experts and Drivers.

AUTOMOBILE
TRAINING SCHOOL
ATTAINING SCHOOL Largest Auto School In 1147 LocustSt. Kanses City, Mo-

Ten Per Cent Down'

And the balance in nine equal annual payments, with interest at 6 per cent, are the terms upon which you can buy choice land in the North Platte Valley, Nebraska.

Omaha, Kansas City and Denver are the markets for your produce and live stock—none better in the United States.

This rich and productive land is cheap, compared with other sections.

Authentic information free for the asking.

asking. Write to me today.

R. A. SMITH

Colonization and Industrial Agent, Union Pacific R. R. Co., Room 4059 Union Pacific Bldg., OMAHA, - NEBRASKA

New Edition and of Modern Silage Methods





SICK HOGS

Sick hog troubles stopped and prevented. Worms destroyed, cough and thumps stopped and hogs restored to thrift. Most of fective remedy known. Its action is Treatment simple, any farmer can case treats 40 hogs. Agents wanted. d particulars free.

DR. D. C. SNODDY CO., Nashville, Tenn.

Will Pay Reliable Man er Weman \$12.50 to distribute 100 FREE pkgs. Perfumed Borax Soap Powder among friends. No money re-quired. M. Ward & Co., 208 Institute, Chicago.

Big Idea in Farmers' Schools

Louisville School so Successful That Another Will Be Held

S OME few weeks ago announcement was made through Kansas Farmer that the extension division of the Kansas Agricultural College could arrange dates for twelve neighborhood schools in agriculture this winter. At that time two dates were claimed—for

Louisville and Oswego.

The school held last week at Louisville, a little town inland three miles from Wamego, was an entire success. This was the verdict of more than a hundred farmers who attended. The fact that the school was practical was the reason farmers left their work and attended the school, morning, afternoon attended the school, morning, afternoon and night for five days. The farmers around Louisville are men of mature age. The younger generation has moved west or to communities where land can be rented cheaply. These farmers were in-tensely interested in every lecture, dem-

onstration and address that was given. When the time came for the instructor in dairying to talk, the different milk cows from over the town were judged and their good points pointed out. Instead of showing pictures of prize win-ning live stock, the whole school after ort talk adjourned to a near-by feed yard where the instructor had selected

several of the poor feeders and several of the good ones. The school gathered in a ring around the steers and asked

When they came to discuss crops, each man had some little incident in his own experience with alfalfa and other forage crops which agreed or disagreed with the advice given by the instructor.

The hog cholera has done a great deal of damage around Louisville so that every farmer was glad to hear the vet-erinarian when he talked on hog cholera and vaccination and live stock sanitation.

The school was intensely practical. Instead of just lecturing and showing by charts how to improve the soil and to apply fertilizers, the instructor took the farmers right out into their fields and told them what was the matter with their soils. Of course, all the work could not be done in the field, but in many instances a short lecture was followed by a long trip to the farms near the town. Each farmer was eager to have the instructor visit his farm.

All the farmers in that community are agreed that it was well worth their while to attend the school, and they voted to hold the school another year.

Farming The Hard Way

HY don't more farmers run to the grass plan of farming?" is a question which Farm, Stock and Home, of Minnesota, submitted to subscribers for answer. One subscriber who has made marked success as a result of growing crops which so far as possible his live stock could harvest, made this reply: "Don't ask me; I don't know. Suppose it's because that is such an easy and sure way of making money. Plowing the ground and harvesting and all that is work, hard work. Must be because the farmer would rather work hard, have hired men around him and take more chances. That must be it."

The question is only another way of inquiring why farmers do not plant a greater acreage of crops which can be harvested by and marketed through live stock. We wish all Kansas Farmers folks would read and reread the reply above, and while reading keep in mind that it is the reply of a farmer—a man who digs in the dirt, who grows crops and does everything else that might be expected of a farmer.

Receive of hard work so much of it.

Because of hard work, so much of it, and the scarcity of hired help to assist with the work, have long been discouraging features of farming in Kansas as elsewhere. Yet, in spite of all the com-plaints lodged against farming because of these conditions we continue to farm the hard way year after year. With most farmers it is a matter of plowing and seeding, harvesting and threshing and the hauling of the crop to market. This crowds the work into the spring, summer and fall months. It means, too, the sale of the crops at a price which permits other feeders of live stock to feed that stock at a profit. The margin between the price at which the farmer sells the crop at the elevator and the price paid by the man who feeds the stock must necessarily be large. This because they must be transported by rail and wagon several times and must pass through two or three or more hands and each must be paid for his labor in handling and besides a profit thereon. This, in a brief way, sets forth the sit-uation as it exists with the market crop farmer. This, instead of increasing the which can be consumed by the stock of the farm and driven to market on four legs. If any man can feed grain and roughage to animals profitably, it ought to be the man who

profitably, it ought to be the man who grows the crop.

Not long since we spent a day in a section ideally adapted to live stock farming. So because of the character of the land, the topography of the country and the unusually long distance to railroad shipping points. Conditions in this community were such, it seemed to us, as to make live stock growing and feeding an actual economic farming nefeeding an actual economic farming necessity. However, in this locality there were comparatively few cattle, but on were comparatively few cattle, but on every quarter section there were twenty-five to forty acres of prairie grass. The hay is cut from this land, baled and marketed. It requires a long day to make a round trip from this neighbor-hood to the nearest best hay market with a ton and a half load of hay. This

grass land yields one year with another, about a ton to the acre and which sells baled at \$8 to \$10 a ton. It costs at least \$3 a ton to market this hay. Yet it is claimed that for this community the prairie grass meadows are the most profitable acres. When comparing the profit of wild grass with that of other land the comparison is made on the basis of the corn this land will grow. Excepting the great betterms the land of this ing the creek bottoms the land of this community is not corn land, although in seasons when the rainfall is sufficient good crops of corn are grown. Yet this corn must be hauled fifteen to eighteen miles to market as is the have miles to market as is the hay. One year with another the land gives a low yield in corn, but it will grow profitable crops of cane, kafir, cowpeas, sweet clover, millet and other roughages and grain adapted to hog and cattle feeding. The lowlands grow alfalfa and corn abundantly. While the farmers of this section in one of the best counties in Eastern Kappen Kappen. ern Kansas are under their present methods of farming probably more prosperous than the average of Kansas farmers, there is, nevertheless, the feeling on their part that they are not realizing as much money from their land and work as they should.

With the hay land in pasture and with sorghums growing on the cultivated up-land and with a silo or two on every farm and with all the cattle and hogs each farm could accommodate, it is certain that there would be a marked improvement over the present existing condition. The labor saved through discontinuing the hauling of crops to market would greatly increase the income per farm if that labor were converted into some profitable work on the farm. As some proof of the correctness of our contention as above stated, we met at the meeting three men, each of whom were designated as "cattlemen" of the neighborhood. We made it a point to discuss with these the general farming situation in their vicinity. We found that they were doing things along the line appearing to us as best. Each was the owner of not less than a quarter section. Each was buying roughage, hay and corn for feeding in addition to that he could grow on his own farm. Each said he couldn't make farming go if attempted along the lines pursued by his neighbors. "Too much idle time in win-ter and too much time spent on the road hauling," was the way one man referred to market crop farming. On our road home we passed the farms of two of these "cattlemen" and could not help contrasting the appearance of thrift on these as compared with the average farm of the community. And, by the way, these three were the only men who drove to the neighborhood gathering with their families in automobiles. One had a motor car he had run for four years and he said it had more than paid for itself in the saving of time on the road between his farm and town. There is no question that the man who farms the live stock way will have plenty of work, but it will be a different kind of work and will yield a greater profit for the energy expended.

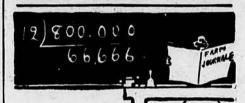
Built Up To A High Standard Not Down To A Price

The New Galloway
SANITARY
Cream Separator
is made so good in my factory that I
will send it anywhere in the United
States without an expert to
set it up, to any inexperienced
user for a 80-day free triat, that
even sells for twice as much and let
the user be the judge. It's the most
modern, the most santanter, the
most beautiful in design of any
cream separator made today and
I have seen them all.

Travel 20,000 Miles
look over every factory in the United States and
foreign countries—you won't find its superior
price. Made in our own factory from the fine
terial, on the best automate machinery, by
workmen, in tremendous quantities, all parts
interchangeable and sindard, and seet es pee 6
mency than dealers and jobbers can buy machin
as good in carrigad lots for spot cash.

Get My 1915 Catalog and
Book Free





There is precisely one chance in 66,666 that you will not be absolutely satisfied with the Farm ournal.

At any time any subscriber is not satisfied with the Farm Journal he gets his money back quick. Last year only 12 out of 800,000 asked for a refund. This is mighty good evidence that the Farm Journal belongs in every Farm home, including yours. Five years for \$1.00. Send your dollar to

The Farm Journal 124 Washington Square, Philadelphia

LET US TAN

Cattle or Horse hide, Calf. Dog, Deer or any kind of skin with hair or fur on. We tan end finish them right; make them into coats (for men and women), robes, rugs or gloves when ordered. Your fur goods will cost you less than to buy them, and be worth more. Our illustrated estaleg gives a lot of information which every stock raiser should have, but we never send out this valuable book except upon request. It tells how to take off and care for hides; how and when we pay the freight bett ways; about our safe dyeing process which is a tremendous advantage to the outstomer, especially on horse hides and calf skins; about the fur goods and game trophles we sell, taxidermy, etc. If you want a copy send us your correct address.

The Crosby Frisian Fur Company, 571 Lyell Ave., Rochester, N. Y.



THE OLD RELIABLE ANTI-FRICTION
FOUR-BURB MOGUL MILLS
No gearing, no friction.
Thousands in use. Fourthousands in use. Four-

We save you fully 50% when you ship us a cow or horse hide to be made up into a coat or robe for you. Write today for free catalog, giving prices and all information. Address

COWNIE TANNING COMPANY





When writing to advertisers, please mention Kansas Farmer.

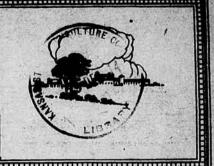


KANSAS FARM

Editor in Chief

Editorial, Advertising and Business Offices - Topeka, Kansas Chicago Office, Advertising Building, Geo. W. Herbert, Inc., Manager New York Office, 41 Park Row, Wallace C. Richardson, Inc., Manager

Entered at the Topeka post office as second class matter



KANSAS FARMER INDEX.

For the first time in many, many years Kansas Farmer is this week failing to include the index for the fiftytwo issues of the year in the last issue of the paper for the year. The index is being printed, however, and will be mailed upon the request of those subscribers who desire it. A post card to Kansas Farmer will bring the index free of cost, by return mail. Thus, those readers who have kept files will be able to avail themselves of the index as

Our index has listed therein between four and five thousand articles which have appeared in the fifty-two weekly issues of KANSAS FARMER during 1914. Every one of these articles was selected or written with the knowledge that it was helpful to some reader. These articles pertain to every phase of farm activity. They take cognizance of the betterment of farming conditions. betterment of farming conditions. KAN-SAS FARMER seeks to be of actual money value to every reader. We believe that we have accomplished this end. During the course of a year hundreds of readers write us that certain articles have been worth to them the subscription price for several years. Some have writ-ten that each issue of Kansas Farmer is worth to them the price of a year's subscription. There is every reason to believe that these testimonials apply to every reader who goes through Kansas Farmer each week in an attitude of seeking the truth—seeking those things which will be of value in farm and live

stock management. A bound volume of KANSAS FARMER A bound volume of KANSAS FARMES is valuable as a work of reference. There is no book printed, or no sets of books written, which cover so wide a range of farm information as is contained in fifty-two issues of a good farm paper. No Kansas reader can find anywhere a book so valuable from the standpoint of the farmer as a bound volume of Kansas Farmer. Yet we realize that comparatively few of our readers keep the files of Kansas Farmer, and it is because of this fact that it does not seem the part of wisdom to downto for the fact. the part of wisdom to devote four or five pages of one issue to the printing of the index. This would remove from that issue an equal amount of reading matter, which matter, we believe, readers generally will more appreciate than the index. So, we have printed the index for those who desired its reading for those who desire it and have given equivalent space to addition farm news for those who prefer it to the index.

GOOD ROADS BILL.

It is certain that a bill will be introduced into the coming legislature to create a state highway commission that will have supervision over road construc-tion throughout the state. J. T. Kincaid, member of the legislature from Johnson County, in an address before the Johnson County Farmers' Institute, said he would introduce such bill, and on that occasion briefly stated his views.

He says there is a wide variety of road conditions in Kansas and that the practical thing in highway construction in Eastern Kansas is not at all adapted to the western section of the state. holds that the practical solution lies in the creation of a highway commission with power to establish such standards as are best adapted to the varying needs of the different sections. He would also have the administration of the automobile tax removed from the office of the Secretary of State and given to the State Highway Commission. He says further:

"It only takes a moment's reflection to convince anyone that all road officials are now limited by law to certain things, and that local officials are handicapped by their environments. I want to see the State Highway Commission given such elastic powers that it can handle any local situation that might develop in any county. I want this State High-way Commission to study road problems 365 days in the year, a commission that can work with and not against local officials. I want a highway commission that will know the A, B, C—X, Y, Z, of road and bridge construction, a commission with large discretionary powers, because I believe that a commission thus

created will obtain better results than by any hard and fast laws that can be enacted by 125 representatives and forty senators, a great number of whom have made no study of road and bridge construction, and know nothing of the technical work necessary to obtain the best results. We are all for good roads at the lowest possible cost, not good roads at for one mile and bad roads for the next, not good roads this year and bad roads next, but good roads all the time and everywhere." * * *

A neighborhood organization holding three or four meetings a year, and those meetings attended by thirty or forty persons, would seem at first glance to be a small factor in the accomplishment of a year's work of the extension division of the Kansas Agricultural College. However, when it is recalled that there are 440 such institute organizations in the state and these have a mem-bership of 15,000 heads of families, these same institutes appear far more important and the far-reaching influence can be appreciated. Also when it is re-called that the same extension division holds movable schools, conducts educational trains over the railroads throughout the state, assists and directs the agricultural agents, organize women's auxiliaries to farmers' institutes, directs girls' home economic clubs, etc., it is easily seen how the extension workers can talk to three hundred thousand people or one-fifth of the population of the state during a twelve-months period. This is the extent of the extension division's work for the year ending June 30, 1914, and which warrants not only continuation of the work but the expenditure of such public funds for main-tenance and extension that it may reach the largest number of people in the most thorough way possible. * * *

Do not forget the annual meeting of the Kansas State Board of Agriculture, Topeka, January 13 to 15. We suspect that a great number of Kansas Farmer folks entertain the idea that this meeting is held for board members. The fact is that the annual meetings of the board are held for Kansas people in general and the program is so arranged that every individual, regardless of his call-ing, may obtain therefrom something of value. Last week we stated that D. F. Houston, Secretary of the Federal Department of Agriculture, would be present and make an address on a subject close to the hearts of Kansas farmers. We stated also that President Waters of the Kansas Agricultural College would tell about the farmers of the Orient. The meeting will also be addressed by Jessie Field, a young woman who revolutionized the life of a country community in Iowa through her methods of dealing with the rural schools, and who will tell of her work in that line. Rev. Charles A. Richard, of Seneca, who has been notably successful with the country church, will discuss that subject under the title of "The Rural Outlook." "Why Good Roads Pay" is a sub-

ject which will be presented by Albert T. Reid, president of the Kansas Farmer Company, in a unique address illustrated with colored stereopticon views and impromtu cartoons. Farm methods and promtu cartoons. Farm methods and crops and live stock matters will also be crops and live stock matters will also be brought before the meeting by speakers well posted and competent to discuss their subjects. If you can arrange for a few days' layoff, do it. Try to get someone else to do the chores for a few days and give yourself and wife an op-portunity to attend this meeting.

The school children in Sauk County, Wisconsin, have during the past two years been making a social survey of each rural school district. They have been gathering the data pertaining to each farm, as follows: Name of farmer, owner or tenant, length of time on farm, size of farm number and kind of mode. size of farm, number and kind of mod-ern farm machinery, barns and equip-ment and silos. Also whether or not the farm homes were supplied with such conveniences as running water, hot and cold, hard and soft, bath room, laundry room, power washer, telephone, lighting system, screened-in porch, ice box, septic tank, vacuum cleaner, sewing machine, piano, gasoline or oil stove, typewriter. When the surveys from all the school districts in the county were collected the county superintendent had some surprisingly interesting data concerning the social conditions of the county. The results were published in local papers, Such survey would furnish a means for our Kansas teachers as well as pupils to become acquainted with the community. The survey would furnish, as it progressed, an interesting daily exercise for each school undertaking the work and the benefits are apparent. The teacher could draw therefrom many lessons of value and interest to the pupils. We hope each Kansas Farmer boy and girl now in school will show the district teacher this item with a view to making a survey of the district.

At this tax-paying time, as in the past, the atmosphere about the county treasurer's offices has been fairly sizzling with complaints as to high taxes. People generally, we think, are not clamoring so much for less taxes but for more for the tax money. This is the reason that every taxpayer ought to take a deep interest in governmental affairs and direct the manner in which the tax money be expended.

Kansas is to be advertised in a novel way at the Panama-Pacific Exposition. This through 50,000 feet of films which will show every phase of agricultural, industrial and educational activity of the state. The pictures will be shown the state. The pictures will be shown in the open air, and will be accompanied by lectures on "Kansas." The lectures will be made by Major W. L. (Ironjaw) Brown, formerly a member of the Kansas State Legislature and speaker of the House. Although several of the states in the country will show pictures of their industries, the Kansas production will be the largest on the grounds. PLEA FOR FARM INVENTORY.

The oldest business on earth—farming The oldest business on earth—farming—has since the beginning been done without bookkeeping—without a means of knowing just how profitable or unprofitable it has been and also without the knowledge of which crop or kind of live stock has made the most money. Many farmers do not have the time to run a system of farm bookkeeping which would reveal the details of his business to the same extent as does the merwould reveal the details of his business to the same extent as does the merchant. It is certain, though, that he can afford to expend the time necessary to keep such accounts as are essential to give at the close of the year a fairly accurate understanding as to the profitableness of each of the various farm industries industries.

The most important single account and the one with which any system of accounts should begin, is the farm inventory. Right now is the time to make it. That inventory should show all assets, including land and improvements, stock, farm equipment, cash on hand, notes refarm equipment, cash on hand, hoves to ceivable, accounts receivable, grain on hand, and everything else of value. On another page in the book, or on another sheet of paper, should be shown all debts or liabilities, including notes pay-able, accounts payable, etc. The differable, accounts payable, etc. The difference between the totals of the two columns of figures will show the present worth of the individual. The continuance of these two accounts from year to year will reveal whether or not the

year will reveal whether or not the farmer is running behind or getting ahead and in what amount.

We venture the assertion that comparatively few farmers have any reasonably close idea of the amount of money which they have invested in stock, implements, etc. A separation of the inventory account will reveal this. We think too that there are compara-We think, too, that there are comparatively few farmers who have a reasonably accurate idea as to what they are actually worth. The inventory will reveal this, also.

Accounts should be kept with the live

Accounts should be kept with the live ock. There should be a horse, dairy cattle, beef cattle, hog and poultry ac-count. The manner of keeping these accounts will in succeeding issues of KANSAS FARMER be described. It is only through keeping these that it is possible to know the income from each kind of live stock and to compare the income from one kind with that from another.

The farm inventory as above described is the first account to complete. Do it now. It can be done just as well today as at any other time. There is more time to make it now than there will be later.

* * * Here is a good example of accumula-tive benefits derived through the county agent. In 1913 P. H. Ross, agent for Leavenworth County, did the first work among farmers in an organized effort to control Hessian fly. As a result of the work in that year about 15 per cent of the wheat acreage of the country was sown before the fly-free date. The results were such at harvest time in 1914 as to indicate the value of later sowing than usual as a means of decreasing damage done by the fly. This year less than 1 per cent of the wheat in the county was sown before the fly-free date. The fact is that a few years of serious effort at insect control would result in the county was sown before the fly-free date. saving millions of dollars annually for Kansas farmer folks.

* * The past season the farmers of New York State and in several sections of Canada have used with great success the poisoned bran mash, after the formula of the department of entomology of the Kansas Agricultural Experiment Station, in controlling grasshoppers and army worms. Thus do the accomplishments of the Kansas station in insect control extend to the corners of the earth. It would seem that the people of our own state would appreciate to a greater ex-tent than is apparent, the many good things which originate within the state.

The man who has farm products to sell is not worrying about conditions brought on by the war and he has received no backset as a result of the war.

To All The People Of Kansas

HEN women and children by thousands and millions are facing death from starvation, plain words are pardonable. Within one month less than half the people of Kansas have given approximately two-thirds of a shipload of Kansas flour for Belgium.

We ask and urge every home, every business house, bank and institu-tion; and every stockman, farmer, and indeed every man, woman and child, to become part of the Kansas Belgian Relief organization and make some little sacrifice to help fill this Kansas ship and get it started across the sea.

It is believed that every sack of flour, every dollar given now, will save the life of a child or a woman. Who would sacrifice a human life for a day's wages?

If every Kansan would share a very small portion of his Christmas with these starving people who ask only bread, not even enough for a good square meal, but barely enough bread to sustain life, we can load the Kansas ship to its capacity.

Send contributions at the earliest possible date to your local committee or to the Kansas Belgian Relief Committee, Mills Building, Topeka.

COMMUNITY FINDS ITSELF

Louisville Community Again Lives Its Tradition and History-Osceola Burr



LOUISVILLE PAGEANT GROUPS .- INDIANS UPPER LEFT

-PILGRIMS UPPER RIGHT-SAILORS LOWER CENTER

country are taking a new interest in community life. There are en-couraging signs to indicate that we have entered a new epoch in musical expres-sion. What a difference it will make when all the villages and country neigh-borhoods in Kansas are fully awake to this new community opportunity! Since there are so many small communities practically alike in this state, it naturally follows that what has proven suc-cessful in one is possible of accomplish-

ment in many others.

This article is a record of the way in which the people in the community of Louisville, Kansas, found self-expression. A large number of young people eager for better social conditions came to-gether in the old-fashioned way in a singing school. Attendance was not limited by age or restricted to those who had special musical ability. It was recognized that we are all singers, needing only an opportunity to learn how to sing in perfect harmony with each other. The movement was a protest against the tendency to send away to the cities and get noted singers to come and sing for country folk.

There was a time when musical training was thought very much worth while, when the old and young came together for the express purpose of singing. Out of that age developed the specialist. Here and there one with a particular genius for song turned his or her attention exclusively to that art and became an entertainer; leaving friends and neigh-bors to follow other pursuits, and de-pend upon the specialist for entertainment. In this way the common interest in musical expression was lost. The expert in many ways has been a real hin-drance to the development of the common people, who have been more and more inclined to depend upon those especially trained to entertain them, failing to practice self-expression. The people have to a considerable extent lost the desire for group singing. This fea-ture in community expression has made a marked difference in the type of people we have developed in the village and open country.

There are various ways in which a community singing school can be organ-ized and conducted. Perhaps there is some one in the community fully competent to train the group, but more often this is not the case and a leader must be selected from a near-by town. This is an added expense, but among a large number each will pay a little the way of a regular fee, and there will be sufficient income to carry on a splendid chorus. If there is no church building or hall in the community where such a group can meet, the school house may be used to great advantage. For such meetings arrangements must be made for the lights and fuel. All these items should be summed up and enough charged to cover all expenses. However, it must be remembered that such a group should not be organized for the express purpose of making money. Warren H.

Wilson, in his splendid book, "The Church of the Open Country," establishes it as one principle of the community en-tertainment that it must be self-supporting, but not a money-maker for some other cause. This rule applies to the

community singing school.

Great care should be taken in selecting a leader. The instructor should understand the ways of the people among whom he intends to carry on such in-struction. The leader should develop in all the ability to sing, and not single out those who have noticeable talent. Much also depends upon the leader in the way of selecting the proper style of music. Music has various effects upon the individual, but in dealing with a group it must be judged according to its tendency to inspire and build up char-This power of inspiration lies not only in the music, but also in the leader.

In the community which is the sub-ject of this sketch, there has been a dearth of social life, which is so noticeable in all country neighborhoods. The singing school affords a splendid opportunity for social activities. In the fall and early spring one will find practically the entire group gathered together be-fore the appointed time for singing, playing old-fashioned group games out of doors. This is a splendid way in which rural young folk can have good wholesome recreation. When the signal is given all go into the building and there settle down to work. Sometimes the musical production undertaken is very difficult and all feel very proud when that particular piece has been mastered. BIG COMMUNITY SOCIAL FEATURE.

During the past year this group undertook the development of a difficult pageant, and the attempt met with marked success. The idea was by no means original. During the past few years this form of entertainment for and by the country neighborhood has been successfully undertaken in many com-munities. To witness such performances thousands have assembled, not in halls or in theaters, not in cities or large towns, but in the great expanse of the out-of-doors, with the green grass for a carpet and the Arch of Heaven for a canopy; in the midst of towering trees, by the side of rippling waters, in the silence of the country broken only by whispering leaves, by the bark of many squirrels, and the croak of husky frogs. WITNESSED AND GAVE PAGEANT.

So with the Louisville pageant in the summer of 1914. The community came both to witness and to give a pageant. They were not gathered there to see and hear some grand noted actor or actress, but their own folk; for mothers, fathers, sisters and brothers were a part in this great outdoor performance. It was a

historical production taking them back to the beginning of our national life.

The pageant has begun! The Pilgrims move along sadly singing of hardships and religious yearnings. See Miles Standish; surely it is he, with the somber cape and hat—but no; look again—it is only our village schoolmaster! And, there again, the elder, in costume of purple and gold reading the Foly Rock. ple and gold, reading the Holy Book; surely this ancient gray-haired man is returned to us from the past—but someone near by reveals the secret that it is the village preacher. We hear the song of hope and faith, bidding farewell to home and kindred, trusting in God to lead the way. How strange a dreamfor here we are on the mighty ocean, with the sailors in their white suits singing "Roll On, Roll On, Majestic Ocean.

But all is not pleasant on this journey, for one of our Puritan maids in gray is telling of grief for one departed. In such a time of grief come the pacifying words of the Elder. But what is this vision which we are led to see? We are nearing the shore of a new land; the Elder's son is telling us of it in song. The new land offers freedom, a place where oppression shall never reach them more. Suddenly the scene changes! Horror and fright possess them. Heartless bloodthirsty Indians are coming in upon the apparently helpless Pilgrims; they come from behind the near-by trees, brandishing their tomahawks streaked with blood. They are dancing their war dance and singing "Onward to Destroy

Now they have passed on to accomplish their murderous mission, and before us is the Pilgrim family singing their vesper hymn. Little do they know the danger that awaits them. Even as they sing, the Indians can be heard raising their war cry in the distance. Sud-denly the captain gives the alarm and the Pilgrim men gather to prepare for battle. They go to meet the foe, leaving the panic-stricken women alone and seemingly unprotected; but in this hour of need the Elder is at hand and encourages them, pleading for them to place their faith in God "Who in all things guideth well." Presently the voices of the returning Pilgrim men are heard in the distance singing of triumph. The women respond with a joyful song of welcome to the conquerors.

Once again loved ones are united, and in one grand chorus sing the song of vic-tory. When this group has gone on their way rejoicing, the Indians appear, sing-ing of defeat. They express their de-sire to find the Pilgrims and plead for peace. The plaintive Indian maids, dressed in their native costume, with their many beads and feathers, make an

impression long to be remembered. They come with bowed heads and drooping spirits, telling of the loss of loved ones, of brave warriors gone never more to return. Then follows the treaty of peace, bringing a distinct relief to the long-sustained emotions of the watchers who had witnessed so strenuous a journey and such perilous experiences. Now before us are the Pilgrims in the somber gray costumes, the sailors in their white suits, the Indian men in their native costumes and gleaming paint, the beautiful Indian maids in beaded dresses —all joined together singing a grand anthem of united effort, the joy of peace and the power of divine assistance. SUCH IS THE MIRACLE OF THE PAGEANT..

Along with our various emotions, there is a feeling of joy and of pride as we remember that this great scene which we have just witnessed has resulted from months of training with forty of our young people. As the "make believe" characters become once again real, we discover in them our school teachers, our village preacher, our sisters and brothers and mothers and fathers of the com-

As a recent writer has well said, "Such is the miracle of the pageant, when its secret is understood. The pageant—community drama—has shown a bright pathway up and out of the blighting grind and joyless routine of this present mode of life with which our nation is becoming at last so profoundly dissatisfied. Metropolis, large city, town, village or country side, it is all the same; community self-expression and self-dramatization in forms of beauty and joy are showing us the way forward and through."

EVERY COMMUNITY CAN DO IT.

What this community has done any community can accomplish. Great talent is not necessary in this form of expression. Each one has a little ability along artistic lines. Can you imagine the greatness of a genius whose ability consists of various talents joined together? Yet that is what we have in each community. For a number of years our various talents have been scattered. In this new time we are collecting our forces. We have discovered a new art. All of the fertile regions of our be-leved Kansas hold secrets of the past. The forest trees whisper of legends long half forgotten, the rippling streams tell of the hidden Indian trails. What grand opportunity for traditional and historic material to be collected and put into-

form for such presentation. Such is the enjoyable task now being undertaken by the Pageant Group in Louisville, Kansas. They are gathering incidents of local tradition and history, and next summer, when all is prepared, they will live again in the presence of friends and neighbors, the life of the community from early days to the present time. What a grand opportunity for idealizing of community life, and for that development which comes to the community as well as to the individual, as the result of self-expression.

THE WHY OF INCUBATOR

Advantages of Artificial Incubation-By Thomas Owen, Our Poultry Editor

THE science of artificial incubation is of long standing—so long, in fact, that it dates to antiquity. The earliest form of artificial incubation we read of is that of the Egyptian egg oven. The eggs were placed in baskets and surrounded with fermenting manure which supplied the heat. These ovens we presume were built on the same principle as small hotbeds are now made. These were superseded by mud ovens, in which thousands of eggs were hatched annually. In both Egypt and China there are now communities for which the eggs are hatched at a central station. The owners of the eggs pay a certain price to the owner of the oven or incubator, for hatching. Sometimes the proprietor buys the eggs outright, then sells the chicks to those who wish to buy. Some of these ovens have capacities of hatching 300,000 eggs a season. They are large low buildings constructed of brick or clay. There is an alley in the center, on both sides of which are shelves containing the eggs. The heat for hatching the eggs is generated by fuel placed on a ledge in the building. The attendant goes through the alley and into the building at will to regulate the temperature. The incubator of today is an evolution of the last fifty years and in place of the old system of having the eggs incubated in one central station, the modern incubator goes to any farm or poultry plant in the country, that calls for it.

Great strides have been made in the development of the incubator within the

Great strides have been made in the development of the incubator within the last quarter of a century, until today the modern incubator is a reliable hatching machine, one that can be depended upon to perform the work called for. That the old hen is a good hatcher no one will deny, and if only a few chicks are desired she answers all hatching purposes. But even the hen cannot evade the natural time for sitting, viz., in the spring and summer time. If you want broilers in the fall and winter, or early pullets in January and February, you must have an incubator in order to hatch them. The old hen will sit only when it suits her own sweet will, and that is not always the will of her owner. By using an incubator you can set the eggs whenever you have fertile ones to place in it, and you can have broilers and roasters at any time of the year you wish.

The element of chance enters largely into the matter when hens do the hatching. They are often nervous and stop setting after a few days on the nest. Then the hens are often clumsy and break many of the eggs. This generally spoils the whole hatch, for the contents of a broken egg smear all the balance of the eggs in the nest, closing up the pores of the egg shell and stopping the hatching process. Even washing the eggs after they are discovered in a dirty state

does not remedy the matter.

The hatching of eggs by hens must always be limited in number; large quantities at one time cannot be hatched. The incubator capacity on the other hand is limited only by the number of fertile eggs available and the owner's desire. It is much cheaper in the long run to hatch with incubators than with hens. The amount of oil required to run an incubator is very small, whereas with hens you lose their services as egg layers for several weeks, yet you must feed them as when laying.

While there are scores of different makes of incubators, there are but two systems in operation today, viz., the hot water machine and the hot air machine. Both kinds are run with the same kind of heat, viz., coal oil lamps. A few may be run with gas or electricity, but the rule is to heat them with kerosene lamps. The problem of artificial incubation is to keep a steady and uniform temperature of 103 degrees, with the proper degree of moisture. The problem of the right degree of humidity in an incubator is still an open one, some manufacturers claiming much more to be necessary than others. It depends a great deal on the state of the weather at the time of hatching, as well as the place where the hatching takes place, whether in a cool cellar or cave or in a dry room.

As to which is the better system, the hot air or hot water machine, the authorities differ, though probably there is

not much advantage in one system over the other. The makers of the hot water incubators think their machines are the best, while the makers of hot air machines think quite as strongly that their system is best. And there you are. We have tried both kinds at the same time with the same kind of eggs, and our results with each were satisfactory and in fact there was no difference in the results. With a hot air machine the heat of the lamp goes directly to the machine and it is heated much quicker than the hot water machine. On the other hand, should the lamp go out, the heat radiates very quickly and the eggs might get too cold before the fact of the lamp being out was discovered. With a hot water machine the heat is applied to the water first, which then goes to the egg chamber through copper pipes or a copper tank. While it takes longer to heat up a hot water machine, it also takes longer for the heat to disperse from the chamber, and if the lamp should go out at night there would be heat enough left in the chamber till the fault would be discovered. Of course, this matter of the lamp going out at

form heat is best. The temperature of eggs under a hen has been found to be from 101 to 104, the average being approximately 103. It is very essential that an accurate thermometer be used in every incubator. Each manufacturer sends what is claimed to be a tested thermometer with each machine. Sometimes these get broken, and another is purchased, which perhaps has a variation of several degrees below or above an accurate thermometer. While we have said that a variation of a degree or two occasionally will not make much difference in a hatch, a steady variation of several degrees might hurt every hatch; hence the necessity for an absolutely accurate thermometer.

As we have stated already, the question of how much moisture is necessary in an incubator is an open one, and depends on the evaporation of the eggs in

As we have stated already, the question of how much moisture is necessary in an incubator is an open one, and depends on the evaporation of the eggs in the egg chamber. Moisture retards the evaporation of the egg, and some moisture must be provided to have good hatches. From frequent experiments it has been found that machines with moisture produce a 10 per cent better hatch and that the chicks from a moist ma-

The tray was reversible; that is, one part containing fifty eggs was sometimes in front of the machine and the other one in the back part, alternating their positions every day so as to give them an equal chance. We succeeded in proving to our own satisfaction that the eastern fellow was mistaken, for out of the firty eggs on the part of the tray that we turned we had forty-six chicks and on the part that was not turned only three chicks. Our experimenting cost us at least forty chicks, when they were very desirable and valuable, but it taught us not to believe every fellow who takes a pen in hand.

The cooling of eggs during hatching is another necessity, but this is usually done during the process of turning. It depends somewhat on the time of year and the temperature of the room as to the time necessary for cooling. It is well to imitate nature in this. During warm weather a hen will stay off the nest for half an hour or more, while during cold weather she stays off only long enough to eat. We have forgotten the eggs at times after taking them out to cool, and left them out for three haurs without any material damage other than delaying the hatch a trifle. Proper ventilation is also a necessity for a good hatch, but this is generally provided for in the make of the machine.

Testing the eggs is another operation that must be given attention. This is done from the sixth to the tenth day. Possibly two testing periods would be better than one—say on the sixth and on the tenth days. It is not always possible as early as the sixth day to decide which eggs are fertile and which are not. An expert might possibly be able to tell, but the ordinary incubator operator cannot be sure of all the eggs, and hence would be apt to discard some that were fertile. The object of testing is to eliminate the infertile eggs from the fertile ones so that a more uniform temperature may be maintained, and also to make more room in the egg chamber for the chicks when they are hatched. The testing is done in a dark room by holding an egg before a light of some kind. Egg testers are usually furnished with incubators.

The running of an incubator is not a difficult problem, the principal requisite being to see that the machine is run at the proper temperature. The care of the lamp entails no more trouble than the care of an ordinary house lamp. To see that the oil fount is kept properly filled, the wick kept in good order so that an even flame may be maintained, is about all that is required. The usual directions are that the eggs be turned twice a day after the first day and kept up until about the eighteenth day, or just as the chicks are about to pip the shell. After that the incubator should be let severely alone till all the chicks are hatched. Curiosity and over-anxiety often play havoc with the hatch at the later stages. Incubators generally have glass doors in front, primarily to permit of seeing the thermometer so that the proper temperature may be ascertained without opening the door, but also for the purpose of seeing the chicks come out of the shells without interfering with the incubator at the most acute stage of the hatch.

After the hatching is over it is well to take out the egg shells so as to make more room for the chicks. Usually a nursery is provided beneath the egg tray for the newly-hatched chicks, and it is, best to let them stay in the incubator for a day at least. They need nothing to eat for forty-eight to seventy-two hours, Nature providing sustenance sufficient for them in the yolk of the egg to last three days. If the incubator has been run properly, the eggs will begin to pip on the nineteenth or twentieth day and hatching should be complete by the end of the twenty-first or twenty second day. If the incubator has been run at too low temperature the hatch will be prolonged, which is not a good thing; in fact it is better to run it at too high temperature than too low. As successful hatch is the one where the chicks hatch almost at the same time and not later than the twenty-first day With fertile eggs, a successful hatch in a modern incubator is almost a certainty.



THESE EARLY-HATCHED PULLETS WILL BE FILLING THE EGG BASKET WHEN EGGS ARE HIGHEST IN PRICE.—THE COCKERELS ARE READY FOR MARKET WHEN BROILERS BRING TOP PRICES. THIS IS POSSIBLE ONLY THROUGH ARTIFICIAL INCUBATION.

night is only a contingency, and one not liable to happen with either system of machine if due care is taken.

Those contemplating the purchase of an incubator would do well to send to the different manufacturers for a catalog of their machine and read what they have to say as to the merits of their individual make. There are very few poor incubators made these days, and we believe all who advertise in KANSAS FARMER to be makers of first-class hatching machines, otherwise we would not accept their advertisements. However, each individual buyer has his own notion of what a good incubator ought to be and if the manufacturer's view of his machine tallies with the view of the purchaser, that is the machine for him to buy. He will have more confidence in it and take better care of it than he would of a machine the ability of which he questioned. The makers of all incubators send full directions for running their machine, and it is well for the buyer to follow those directions carefully. Hence it is hardly necessary for us in this article to give explicit directions for running incubators, although we may enumerate a few of the essentials to a good hatch.

First is the temperature, which should be as nearly as possible 103 degrees. A degree or two more or less will not necessarily spoil the hatch, though a uni-

chine are hardier than those from a dry machine. The turning of the eggs in the machine is a matter of considerable importance. Several devices have been patented for turning the eggs in the machine, with sliding trays and slats, but nothing is so good as taking the tray out of the machine and turning the eggs with the hand, and changing the location of the eggs in the tray.

location of the eggs in the tray.

In an experiment at Cornell Agricultural Experiment Station the location of the eggs under a hen were observed each day during the twenty-one days of incubation, and the location of the eggs was discovered to be different every day of the hatch, thus proving that the hen in natural incubation turns the eggs every day. A writer in one of the eastern poultry journals not long ago claimed that turning the eggs in an incubator was unnecessary and that a lot of time was wasted in so doing. He claimed that the hen did not turn the eggs, but simply plumed herself a little after returning to her nest. He said wild birds never turned their eggs while hatching and that all this talk about turning the eggs once or twice a day was chimerical. To test his statement, we resolved to make a little experiment on our own hook. We placed 100 eggs in our incubator, fifty on one side of the tray and fifty on the other. One lot we turned twice a day after the second day up to the eighteenth day, as is usually done. The other fifty we did not turn at all.

A N ARTICLE having to do with brooders and their operation, by Thomas Owen, Poultry Editor of Kansas Farmer, will appear on this page early in January.

KAFIR AND MILO PLANTING

Early Spring Planted Crops Give Greater Assurance of Profitable Yields

HEN I learned the editor of Kansas Farmer was writing a book on the sorghums, I was very anxious to see it, anticipating much pleasure and profit from its reading. I was not disappointed. It is one of the most interesting and entertaining books I have ever read. Those parts pertaining to seed selection and preparation of the seed bed, seeding time, harvesting, etc., are especially valuable and I do not believe can ever be improved upon. There is only one point in your book on which I do not agree with you. That is "early planting," and when reading the following, please bear in mind I am only speaking for my particular section—Northwest Kansas.

Of course, well selected seed and a well reasonable and a seed and a see

of course, well selected seed and a well prepared seed bed are indispensable factors to any crop, but I fully believe that one great reason for unsatisfactory results in grain sorghum growing here is early planting. The average farmer in this section lists sorghums the latter part of the corn-planting season. He plants at this time because the weeds are starting and he must either list or work the ground over to destroy the weeds—so he lists. Of course, listing destroys this crop of weeds if it is done early enough. But the result is that the kafir and milo come up rather slowly and are weak, feeble plants because of the lack of heat. They grow to a height of about one inch and stand weiting for more heat.

waiting for more heat.

Corn planted at the same time grows rapidly and by the time the second crop of weeds is starting the corn is large enough to have some soil thrown into the ditch around it, thus killing all the weeds. Not so with kafir and milo, because the weeds are as large or larger than the plants. An attempt to cover the weeds covers the sorghum plants also. If cultivating is not thoroughly done at this time the weeds must be cut out with a hoe, for they can never be

also. If cultivating is not thoroughly done at this time the weeds must be cut out with a hoe, for they can never be plowed out. The result is a short crop.

I have seen this result year after year. I had some experience along this line this last season. There was a short time just after corn planting time when I was not so very busy but knew I would be rushed later on. Against my better judgment I utilized this time by listing kafir and milo. I had fine, "water-cleaned" seed, too. The results were the same as usual. I had to replant part of the kafir, and I did it this way: I detached the drill from the lister and hitched one horse to it, drilling in the same rows. This drill loosened the entire bottom of the furrow and destroyed all the weeds there. Then we followed with the weeder and that made the field clean. The soil was at this time warm and the kafir came up at once and grew rapidly, making a fair crop. We cleaned the milo field by

Next season I shall disk the ground as early as possible in the spring and harrow often enough to keep the weeds down and destroy crusts. About cornplanting time the weeds will come on so fast that the harrow will not do much good any longer and I will then list the ground, taking off the planting apparatus, but loosening the bottom of the furrow to keep it from drying. When it is about time to weed corn the weeds will be starting again on this land. Then with a one-horse drill I will plant in the lister furrows, taking care to loosen the whole bottom of the furrow, and will follow immediately with the weeder. By this time the ground will be warm and the sorghums will grow rapidly. I believe by this plan I can conserve the moisture and keep down the weeds until the ground is warm enough for the sorghums to grow rapidly. On a properly cultivated field where no crop is growing there is not a great amount of evaporation this early in the season.—En

The date on which the sorghums may be safely planted is of course governed by the season and the condition of the soil. This date may vary a week or ten days on adjoining farms or adjoining fields. This even though the soil is of the same character. For instance, land worked in the fall or early in the spring will permit of earlier seeding than land which has not been worked at all until planting begins. This condition is more marked in the central and eastern thirds of the state than in the western third and is due to the difference in rainfall. The seed of sorghums will not grow in

cold, wet ground, and when planted in such ground, if it be weedy, there is the objection as presented by Mr. Wray. It is desirable always, however, to plant sorghums—especially those desired for grain—in clean ground. This to avoid damage to the growing crop by weeds through any enforced delay in cultivation and which delays frequently occur because of rains in the early spring months.

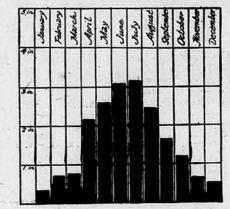
The sorghums can be planted earlier if surface planted. Listing is not favorable to the early starting of the seed. To surface plant requires the working of the ground in advance of planting and such ground becomes warm more quickly than ground not worked. Recently we had a letter from a Cheyenne County farmer who advised that he had this season planted mile on the surface and the results were so much more satisfactory than by listing that he did not believe he would ever again list. He gave as his reasons that he could plant earlier because the surface ground became warm quicker and that the plants grew readily and steadily as soon as the seed germinated. This advantage, however, may in the West be more than offset by the possible damage to the crop by blowing listing being recognized as the best method of planting to controvert blowing damage. So listing in the West may be essential and the best method. We

think it is, but the ground can be listed in the fall, the middles can be split in the early spring and the advantages of fall plowing are not greatly discounted by this method. The crop then can be shallow listed and damage by blowing reduced to a minimum.

The advantages of early planting are to enable the crop to utilize the early rainfall. Below is a chart showing the rainfall by months for the western division which for all practical purposes may be considered the western third of Kansas. It is to be noted that the April rainfall is more than three times that of March, that the May rainfall is increased about a half inch and the June and July another half inch as compared with May, but that in August and continuing through the remainder of the year there is a marked decrease. It would seem desirable, therefore, that the crop be gotten into the ground as early as possible, that it be given every opportunity to utilize the early rains and to arrive at as near maturity as possible in advance of decreasing rains and excessive temperatures. It should be remembered that an inch of rainfall in the early part of July is worth much more to the growing crop than an inch the latter part of July. This because of the evaporation resulting from heat and wind in the earlier growing season is not so great as in the later growing

season. The monthly rainfall throughout the state is in practically the same proportion as shown in the chart and is an argument for early planting throughout the state.

The success with which the sorghum crop may be planted early is largely dependent upon the vitality of the seed. The average seed of kafir, milo and feterita have in the past been considered of



SHOWING AVERAGE ANNUAL BAIN-FALL IN INCHES BY MONTHS FOR THE WESTERN THIRD OF KANSAS

low vitality and rightly so. cause of the manner of storing the seed. That seed which has been held in the bin from the time it was threshed in the fall until planting time in the spring has in most instances either become moldy as a result of dampness or has heated as is a natural tendency when the weather becomes warm. Such seed will produce weak plants—plants of low vitality and which will not endure the seasonal adversities. It is this kind of seed which has resulted in the later planting of the sorghums year after year and which is responsible for the general belief that they should not be planted until the weather is warm and the ground warm. Seed of the earliest maturing heads gathered in the field so soon as thoroughly mature and which have been so hung in a dry place that they will thoroughly dry and kept in this condition until dry and kept in this condition until spring, will prove seed of such vigor as will permit of at least a week to ten days earlier planting and which will survive adversity. The plants will grow more rapidly, they will not so easily succumb to the weeds, the fields can be cultivated earlier and the rapid growing and early development forced and for the reasons, above indicated it, would seem reasons above indicated it would seem that to have the crops as nearly matured as possible before the dry spell of the fall sets in would add to crop assurance. Of course the time of planting, any-where and of any crop, is regulated by soil and seasonal conditions, and any statement regarding early planting should be understood as taking these conditions into consideration.

There is evidence that feterita should not be planted as early as kafir or milo. Because this crop will mature its first heads ten to fifteen days earlier than common strains of either kafir or milo, it need not be planted so early as these. Those strains of kafir and milo, however, which are the result of early maturing head selection, are maturing

throughout Kansas as early as feterita.

It must be remembered that in Northwest Kansas there are 140 days between the average date of the last killing frost in the spring and the first killing frost in the fall. The growing season, however, is not this long, because at each end of the period the nights and days are too cool for plants to grow. We do not believe it amiss to say that there is not in excess of an average of 115 days of actual growing weather in the northwest corner of the state. Since it requires eighty-five to ninety days for the better strains of kafir and milo to produce a crop, and since the crop is likely to be checked in its growth by lack of moisture beginning with the month of July, it is apparent how early planting and the forcing of the crop to maturity is likely to result in increasing the crop chances and so be advantageous.

"It is hard for the people of this great rich Mississippi Valley to realize how fortunate they are even when the countries of Europe are ravaged by war," says an exchange. "This is indeed the region of greatest opportunity favored not only by its wealth-producing soil, but by its privileges of independent citizenship."

MADE GOOD GARDENING

Good Living and Some Besides, Healthful and Profitable Work—By Anton Horkman



HOME OF ANTON HORKMAN, CARDENER, CONCORDIA, KANSAS.

WAS one of a family of ten children. My parents were poor and at the age of twelve I was taken out of school to help support the family. I worked for the gardeners of Concordia for four years. I then took what little money I had and bought a pony, harness and spring wagon and began to work for myself. The first year I rented an acre of ground and also worked the acre of ground on which my parents live. I did fairly well that year and the next year I rented five acres of ground. I did my own peddling from house to house and established a good trade. I early realized the importance of washing the vegetables and tying them, making the wagon look neat and attractive and having my own clothes neat and clean. My customers learned that I was dependable. It pays to be kind and goodnatured even if one does not always feel so. A neat, tidy wagon and driver count for half in selling the vegetables grown.

I worked the five acres two years and then decided to branch out. I bought a big horse and a one-horse wagon. I made sixteen hotbed frames and a lot of glass sashes so I could raise lettuce and radishes in the winter and follow with tomato, cabbage and sweet potato plants in the spring.

My father, who is in business with me at the present time, worked for me for a time but later became my partner. To him as well as to myself belongs credit for our success. He started in the bee business and this has always proven a good side line. We also manufacture horse radish, which helps the business.

We worked the ten acres until we thought we needed more, when we bought the ten acres we had been renting and went in debt for five more. On this five acres we planted gooseberry bushes and grape vines. At that time we bought another horse. We worked the fifteen acres until five years ago, when we bought five acres more. We now have twenty-one acres, counting the acre on which my father's house stands.

For the last two years we two have tended this garden and have done the peddling, in addition to taking care of sixty-five stands of bees. Of course, we have to work hard—sometimes fourteen hours a day—but we are healthy and enjoy our work.

We have no bad habits—such as chewing, smoking, or keeping late hours—and this goes a long way toward keeping a person well. We are both trying to live Christian lives so that we may be examples for others to follow. We have made a good many mistakes in our business, but we always remember them and do not make them the second time. We love our home above all things and around which I think every man's thoughts should center.

I hope our experience will encourage others. They should not become discouraged if success does not come in a year or two. I have worked at gardening for eighteen years. I do not yet know it all, nor do I expect to ever know it all.



SUBSCRIBER G. S. L., Wyandotte County, writes: "Have you or any of your readers any information as to the effect of feeding cottonseed meal year after year on the health of dairy

"I am thinking of feeding cottonseed meal to dairy cows, but am told by some of my neighbors—who, however, admit they have never fed it—that it is all right for short feeding of beef animals, but disastrous when fed to cows year

but disastrous when fed to cows year after year."

This editor will be glad to hear from KANSAS FARMER folks who have been feeding cottonseed meal successive years to milk cows. There are undoubtedly many farm dairymen among our readers who have done this and their experience will help not only this subscriber but others who may be contemplating the feeding of cottonseed meal as the cheapeat protein conventrate they can buy.

est protein concentrate they can buy.

The editor in his dairy herd fed cottonseed meal each fall, winter and spring feeding season for a considerable term of years. This to a herd of heavy milk-ing cows. The meal was fed in quantities varying from two to four pounds per day. It will be realized that such per day. It will be realized that such feeding was necessary to supply heavy milking cows with the protein they needed when the roughage consisted of kafir, cane, corn fodder, millet, prairie hay, etc. The cottonseed meal was fed with wheat bran, this being in the days when bran sold at from \$4 to \$6 per ton when contracted for in the fall of the year. We observed no ill effects from the feeding of cottonseed meal, either in year. We observed no ill effects from the feeding of cottonseed meal, either in so far as the health or breeding qualities of the animals were concerned, and ties of the animals were concerned, and feel warranted in saying that cottonseed meal can be safely fed in such quantities year after year. The amount necessary to feed will of course depend upon the amount of milk given by the cow and the amount needed to make a balanced retion.

we do not find a thing in Henry's "Feeds and Feeding," a book which is the feeder's guide the world over, indicating injurious results to milk cows following the feeding of cottonseed meal. We find reported therein trials wherein cows have been fed as much as seven to ten pounds per day. The average, how-ever, ranges from two to four pounds.

In wintering breeding cows on cotton-seed meal as the principal part of the ration at the Hays station a few winters ago, there was some suspicion that it was unsatisfactory from a breeding standpoint. However, this is a matter which will be further investigated before anything can be definitely determined.

Cottonseed Meal for Horses. Our correspondent, F. J. W., of Edwards County, writes us to ask whether he can use cottonseed meal as a part of the grain ration for his farm work horses. He is now feeding corn and cob meal ground fine, grinding only good clean corn. This inquiry does not state what lorage or hay is being used in this ration. Cottonseed meal has been very successfully used in horse rations, especially in the South. It has also been tested experimentally by a number of the experiment stations. The North Carolina station reports very successful Carolina station reports very successful use of rations containing two pounds daily of cottonseed meal. It has been fed in quantities of one pound daily to driving horses.

A combination of 600 pounds of finely ground corn and cob meal and 100 pounds of the cottonseed meal from the standpoint of nutrients would be very well balanced for feeding a work horse. Fourteen pounds of this mixture would contain 1.28 pounds of digestible protein, 7.6 pounds digestible carbohydrates and .54 pounds fat. To complete the ration this, of course, should be supplemented with some good bright roughage. Clean bright corn fodder or being fodder could bright corn fodder or kafir fodder could be used for this purpose. If the horses are not doing very heavy work, the amount of grain should be lessened in quantity, feeding only a sufficient amount to keep them in good theifty condition to keep them in good thrifty condition without laying on an undue amount of

Our correspondent also wishes to know whether there is any formula for worm medicine which can be mixed with salt for hogs. The government hog tonic, the formula for which was given on page

six of our December 5 issue, is a good one to use. The use of copperas or iron sulphate in the slop is a good tonic and to some extent acts on the worms.

Our correspondent wishes instruction as to the methods to follow in vaccinating for hog cholera. These instructions can be secured from the veterinary department of the Kansas Experiment Station at Manhattan, but our reader should bear in mind the fact that the should bear in mind the fact that the breeder must first secure permission from the live stock sanitary commissioner before attempting to vaccinate hogs for the prevention of cholera. The rules and regulations governing this matter will be mailed on request to the office of the Live Stock Sanitary Commissioner Topoles Kan missioner, Topeka, Kan.

Deep Plowing in Riley County.

Our subscriber, V. V. A., Riley County, sends this statement regarding deep plowing done by one of his neighbors. The article was first printed in a local sener of that county.

The article was first printed in a local paper of that county:

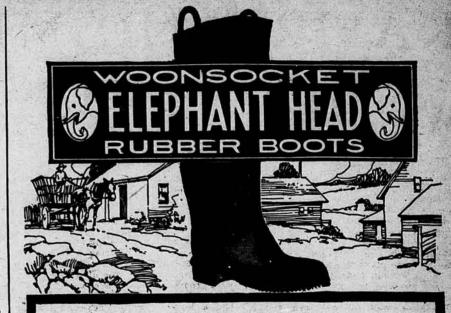
"Some work that is being carried on or conducted right here in Eureka Valley by James Conroy is of too much importance to pass by without farther notice other than gained by a visit to Mr. Conroy's farm. He purchased a deep tillage plow and has been doing some work with it which has proven very satisfactory. This plow is so constructed isfactory. This plow is so constructed that it has one disk below another arranged in such a manner that an oper-ator can plow from twelve to sixteen ator can plow from twelve to sixteen inches deep, and, unlike the ordinary plow, it is so arranged that instead of turning the under portion of the furrow slice on top, it thoroughly mixes the whole mass from top to bottom of furrow. Now it is a well known fact among farmers that there are a great many of those soils which have a very heavy and these soils which have a very heavy and impervious subsoil which, if it were plowed very deep with an ordinary plow, throwing the bottom of the furrow slice throwing the bottom of the furrow slice up on top, would yield very poorly for a year or so unless the seasons were very favorable. Many people have had just such experience and apparently failed. Some writers claim there is a soil bacteria that permeates the soil just as deep as the ground is worked and that these same bacteria help to prepare plant food. The reason, then, we would find for the heavy slice of new dirt being thrown to the surface not yielding proper crop returns for a year dirt being thrown to the surface not yielding proper crop returns for a year or so, would seem to indicate a lack of these bacteria. Farmers who study these questions are all agreed that a deep seed bed is better than a shallow one, and the only way to get it with the ordinary plow is to go just a little deeper each year until the final results desired are accomplished. accomplished.

"With the machine Mr. Conroy has he plowed 12 inches deep last year and he got results, and results are what we are all after. He is plowing a lot more of his ground deep this fall and thinks there is nothing like it. It hardly seems possible that it would double the corn wield but that is what he save and in yield, but that is what he says, and invites people out to make observations for themselves. There are thousands of acres of land around Manhattan that have a very similar subsoil and there is not much doubt but what a little visit to Mr. Conroy's farm to see what he is doing along this line would be very in-

teresting and profitable.

"The world is full of hot air vendors and when we see a fellow like Mr. Conroy get a theory in his head that a particular kind of tool will solve a problem for him and then back his judgment with his money, and then prove that he is right by doing the very thing he set out to do. Such a man is an invaluable asset to any community. What we need and want is people who do things."

If the 1915 legislature heeds the recommendation of Professor Dyche, State Fish and Game Warden, it will pass a bill providing that the present hunting license be made to include fishing and that a fee of one dollar be charged for the same. At present it costs a dollar a year to hunt, but the fishermen pay nothing. It is proposed that boys under fifteen be allowed to fish without a license and in this way the inalienable right of the boy will be protected. Thus, one by one, do the privileges of a free people pass.



You Can Get Both Comfort and Long Wear When You Buy Rubber Boots

A long wearing boot is not hard to turn out. All the makers need do is to forget about comfort. A comfortable boot is simple to make. That can be readily done by forgetting long wear.

To successfully combine comfort and wear—that is a prob-

lem that most makers of boots cannot solve. ELEPHANT HEAD RUBBER BOOTS combine durability and comfort. That's why they are the most popular boots in the world.

ELEPHANT HEAD Boots are made of pure gum rubber and selected first quality Duck. They are reinforced at every seam, joint and wearing point. Every one is lined with soft wool net.

All the better dealers sell ELEPHANT HEAD RUBBER BOOTS. You can depend on anything you buy in the stores that have them.

WOONSOCKET RUBBER CO., Woonsocket, R. L.

LET US CARRY PART OF YOUR GREAT RISK

NORTHWESTERN LIVE STOCK INSURANCE COMPANY

READ KANSAS FARMER'S CLASSIFIED

ADVERTISING PAGE FOR READY BARGAINS

GREAT

Every reader of Kansas Farmer can now obtain that widely read 500-page book, "Making the Farm Pay," with renewal or new subscription.

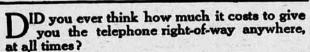
You can have a copy of this great farm book, "MAKING THE FARL PAY," a book that thousands of farmers, stockmen, gardeners, dairymen and other producers have bought and say it is the best book they own.

A VOULIME OF OVER 500 PAGES. The book was written by experts on special subjects—men known all over the United States and in foreign countries for the special study, trials and investigations made by valuable information about treating diseases in special study, trials and investigations made by valuable information about treating diseases in special study, trials and investigations made by valuable information about treating diseases in special study, trials and investigations made by valuable information about treating diseases in special study, trials and investigations made by valuable information about treating diseases in special study, trials and investigations made by valuable information about treating diseases in special study, trials and investigations made by valuable information about treating diseases in special study, trials and investigations made by valuable information about treating diseases in special study, trials and investigations made by valuable information about treating diseases in special study, trials and investigations made by valuable information about treating diseases in special study, trials and investigations made by valuable information about treating diseases in special study, trials and investigations made by valuable information about treating d

| | the second of th | 53 |
|--|--|-----|
| | Dated | ••• |
| KANSAS FARMER, 62 | 5 Jackson Street, Topeka, Kansas. | |
| Gentlemen.—I encl scription to KANSAS "MAKING THE FARM | ose herewith \$1.25 for which please enter or renew my FARMER for one year, and send me the 500-page by PAY," postpaid as per your offer. | 8u1 |
| My Name | | |
| 2 | Glada . | |



The Cost of a Telephone Call



Your telephone instrument, which consists of 130 different parts, is only the entrance way to your share of the vast equipment necessary in making a call.

Your line is connected with the great Bell highways, reaching every state in the unionwith its poles, copper wire, cross arms and insulators in the country; its underground conduits, manholes, cable vaults and cables in the cities.

You have the use of switchboards costing upwards of \$100,000,000. You enjoy the benefits of countless inventions which make possible universal telephone talk.

Your service is safeguarded by large forces of men building, testing and repairing lines. You command at all times the prompt attention of one or more operators.

How can such a costly service be provided at rates so low that all can afford it?

Only by its use upon a share-and-share-alike basis by millions of subscribers, and by the most careful economy in construction and operation. A plant so vast gives opportunity for ruinous extravagance; and judicious economy is as essential to its success as is the co-operative use of the facilities provided.

That the Bell System combines the maximum of usefulness and economy is proved by the fact that in no other land and under no other management has the telephone become such a servant of the masses.

AMERICAN TELEPHONE AND TELEGRAPH COMPANY

AND ASSOCIATED COMPANIES Universal Service One System



Every Call means a Pair of Wires from Subscriber to Subscriber - however many Calls may be made or however far apart Subscribers may be



Canada is Calling You to her Rich Wheat Lands

the extends to Americans a hearty invitation to settle on her FREE Homestead lands of 160 acres each or secure some of the low priced lands in Manitoba, Saskatchewan and Alberta.

This year wheat is higher but Canadian land just as cheap, so the opportunity is more attractive than ever. Canada wants you to help to feed the world by tilling some of her soil—land similar to that which during many years has averaged 20 to 45 bushels of wheat to the acre. Think what you can make with wheat around \$1 a bushel and land so easy to get. Wonderful yields also of Oats, Barley and Flax. Mixed farming is fully as profitable an industry as grain growing.

The Government this year is asking farmers to put increased acress into grain. Military service is not compulsory in Canada but there is great demand for farm labor to replace the many young men who hat wolunteered for service. The climate is healthful and agreeable railway facilities excellent, good schools and churches conversely active for literature and particulars as to reduced railway faces to Superintendent Immigration, Ottawa, Canada, or

GEO. A. COOK,

125 W. 9th St., Kansas City, Mo.

Canadian Government Agent.

Classified Advertising in Kansas Farmer Sells Pure Bred Stock

FOR the breeder with only a limited number of breeding animals for sale and who perhaps does not feel justified in incoming the sale and who perhaps does not feel justified in incurring the expense of carrying a breeder's card regularly, KANSAS FARMER'S classified advertising is an extremely cheap as well as a sure method of reaching buyers, and a few issues will sell the offering. If you have live stock, pet stock, poultry, lands, seeds, plants, implements, vehicles, automobiles, etc., to sell, or if you want to buy or exchange, remember that in these classified columns is the market place for these thousands and thousands of possible customers, and that the cost of reaching them is very small. See head of classified columns for rates.

ADVERTISING PAGE FOR READY BARGAINS READ KANSAS FARMER'S CLASSIFIED



An exchange remarks that people should not hesitate to borrow a good idea. It says that about half the ideas and thoughts in the world are second-hand anyhow. It's just as much of a distinction to put an old idea to a profit able and legitimate end as to be sponsor for a new one. We wish KANSAS FARMER folks would let the suggestion soak in. It is not necessary that you adont any should not hesitate to borrow folks would let the suggestion soak in.
It is not necessary that you adopt any new and untried idea in building up a profitable herd or in the proper care and feeding of that herd. The principles of successful dairy practice are as old as the hills. They are in use by some farmer in your neighborhood. Find the man who is making the most money from his cows and follow in his footsteps. He has no patent on the prinsteps. He has no patent on the principles, ideas or plans he is following. They are as much yours as his, and you need not feel discouraged because you cannot think of some new thing or way or doing things.

Salina is busy in an effort to induce the location of a milk condensery in the location of a milk condensery in that city, and according to the newspapers the matter has so far progressed as to result in the purchase of a building site. If each of the Kansas towns bidding for condenseries should succeed in actually building and equipping such factories (we will gamble that within sightern months at least one-half the eighteen months at least one-half the number will be for sale at 25 per cent of the original cost. Condenseries can be built anywhere if the money can be obtained, but condenseries cannot be operated without adequate milk supply and this supply can come only from the milking of cows within reasonable driving distance of the condensery. There are at least a half dozen points in Kansas making bids for condenseries in which the present milk supply is not which the present milk supply is not which the present milk supply is not sufficient to maintain a one-man creamery. It is the part of wisdom, gentlemen, to build up the cow-milking end of the industry in advance of the manufacturing end. If you have the money and the business judgment to proceed in the same manner as did the company which built its own condensery at Mulvane the situation at once is apparently vane, the situation at once is apparently different. That company supplied the money with which to purchase cows for its patrons, selected the cows, hired the haulers and in other ways promoted the cow-milking end of the business to a satisfactory milk supply. Condenseries, however, organized on the stock company plan will not be able to avail themselves of such organization as ex-isted in the case of the Mulvane insti-tution and are quite likely to fail.

Several weeks ago we stated that a meeting of the dairy commissioners and food commissioners of the Northwest and West would be held in Des Moines, Iowa, early in December to discuss rules and regulations for the grading of cream. The meeting resulted in the declaration that cream for butter-making should be bought on grade and that the should be bought on grade and that the officials of each state would do all in their power to establish grading and maintain it. It was believed that three grades should be established each known and described as follows: Extra, is special grade cream which is sweet and suitable for table use and such as will not curdle in hot water, tea or coffee not curdle in hot water, tea or coffee. First grade shall consist of cream that is clean to the taste and smell, slightly sour, containing not to exceed fourtenths of 1 per cent acid and not less than 25 per cent butter fat and free from lumps, curd, dirt and all other foreign matter. Second grade is cream that is too sour to grade as first grade or that which may have weedy or other undesirable flavors or odors. All other cream shall be deemed illegal. Illegal cream is that which is worse. that which is very old, rancid, moldy, dirty or muddy, or that produced from an unclean separator or that stored, handled or transported in unclean cans or that which has been produced, handled, separated, stored or transported in violation of the state dairy, pure food or sanitary laws and the sale, purchase or manufacture of such cream for any human food purposes should be prohibited by statute. The committee which presented the standard for these grades and which standard was accepted, was composed of Professor Frandsen of the dairy department of Nebraska Agricul-

tural College, J. B. Newman, assistant state food commissioner of Illinois, and A. P. Ryger of South Dakota. It was the expressed intention of those in attendance to attempt to secure a law in the different states that will require grading and have the grades as recommended above incorporated in such law.

Most farm dairymen who keep good cows and give them good care say that taking one year with another, dairying pays better than any other branch of their farming operations. There are many farm dairymen who in seasons of plentiful feed and mild weather admit that the milking of cows pays but in that the milking of cows pays, but in seasons of short and high-priced feed and when weather conditions are not favorable, claim cow-milking does not pay. The latter class of dairymen, if they desire to remain in the business and to make as much money as they can from it, must avail themselves of the cheapest milk-making feed and must grow on their farms those crops which are most likely to yield the feed needed. The farm dairyman must, so far as is possible, have a normal feed supply from year to year. There are seasons in Kansas particularly favorable to the production of all crops, when two or three times as much roughage and grain is grown as the normal supply of farm live stock can consume. It is the part of wisdom to carry a supply of feed from the fat year for the lean year. That this can be done is not disputed. The fat year will fill an extra silo with roughage which as a milk-producing feed is invaluable and cannot be matched by any other farm roughage. A stack of alfalfa hay carried over from the year of abundant production into the short year will result in a supply of feed unequaled by tion of all crops, when two or three times result in a supply of feed unequaled by any other hay. There are numerous farm feeds which may be carried from year to year and most of which would require only a little care and extra labor in stocking. There is another feed require only a little care and extra labor in stacking. There is enough feed wasted in Kansas during each fat year to provide, if saved, the feed needed during the lean year. Dairying, as farming in general, is a year-after-year business. It is not a business which can be gotten into this year because conditions are right and gotten out of next year because of unfavorable conditions. Every cow-milking farmer should put himself in position just so soon as is possible to accumulate at least a year's feed supply. Butter is usually the highest in ply. Butter is usually the highest in price when feed is high. Feed is expensive when it is scarce. The man who is able to carry over feed is able to feed at low cost and sell that feed in the form of butter at the highest various form of butter at the highest prices. Commodities of all kinds are nearly always cheap when there is a surplus. The most money is made by the man who has the commodity to sell when in general the commodity is scarce and the price consequently high.

How were you prepared to take care of the milking cows during the recent snow and cold snap? A Shawnee County dairyman who delivers milk for domestic consumption in the city of Topeka and who gets 10 cents for each quart, com-plained to the editor a few days before these lines were written that the cold weather had reduced the milk flow of his herd 50 per cent; that is, cut it in two, and that he was losing, as a result, \$10 a day in money and that his loss was even greater than this because he was losing patrons to other dairies which were supplying his customers. We which were supplying his customers. We chanced to meet another dairyman who is in the same business of selling domestic milk, and we inquired if during the cold spell he had been able to maintain the milk flow of his herd. He replied that he had not only been able to maintain it but had increased it. He said when it was necessary to keep the cows in the barn on account of unfavor-able outside weather the boys always did a little better feeding, the cows ate more and seemed more contented and consequently gave more milk. He said that he couldn't afford to expose the cows to the weather and so incur a shrinkage in milk flow. The latter dairyman had the right viewpoint. He had, in fact, the only businesslike viewpoint in connection with cow-milking. The man who is milking and feeding cows is doing so for no business other than for

WHAT THE RAILROADS DO WITH THEIR INCOME

WHY THEY ARE CONSIDERED THE GREAT BUSINESS BAROMETER OF THE NATION

In contemplating the crisis which con-fronts the railroads at the present time, and which was briefly explained in last week's article, it is important for the reader to realize that the railroads and the public face each other under radically changed conditions today from those which prevailed a few years ago. The abuses and scandals which have been aired before the Interstate Commerce Commission during recent months were perpetuated for the most part under the old regime of a dozen or so years ago, and can never be repeated under the conditions which now prevail. On the one hand, the Interstate Commerce Commission and the different states without mission and the different states either through their Public Utility Commissions or Legislatures, say what rates the railroads shall charge for service. In addition to this, a proposal is now pending in Congress to give the government the right to investigate all new interstate securities before they can be placed upon the market, while similar authority is the market, while similar authority is already being exercised within the states by the different public utility commissions, including Kansas. This means that the last vestige of control over their finances will have been taken away from the relieved and that herceforth their the railroads and that henceforth their fate will lie absolutely in the hollow of the people's hands. In this connection, we wish to again remind the reader that the hundreds of honest railroad officials throughout the country—men who have managed their properties without a breath of scandal or public criticism should not be condemned because of the misdeeds of the few. With an aroused public conscience on the one hand and scores of railroad officials throughout the country sincerely and actively co-operating with the different public authorities on the other, we can safely let by-gones be by-gones—wipe the slate, and, with a square deal for the people, the investor and the railroads alike, "start

THE PRESIDENT'S ANXIETY.

In last week's article we quoted a portion of President Wilson's recent reply to a group of Eastern railroad execu-tives. That the President has become profoundly concerned over the present crisis which confronts the transportation companies is once more made strikingly apparent in his letter concerning the inauguration of the new banking system to Secretary McAdoo a few days ago. In this letter he referred to this matter in the following language:

"The railroads of the country are almost as much affected (by the war), not so much because their business is curtailed as because their credit is called in question by doubt as to their earning capac-There is no other interest so cenity. There is no other interest so cen-tral to the business welfare of the coutry as this. No doubt, in the light of the new day, with its new understand-ings, the problem of the railroads will also be met and dealt with in a spirit of candor and justice."

Like utterances have come from scores of other prominent public men and finan-ciers during the last few weeks—men who are above making a selfish plea for any private or corporate interest and whose sole desire is that American Business shall emerge from the present precarious situation without disaster. Un these circumstances it is the merest folly for any citizen to treat the present crisis lightly or flippantly, for we are passing through a period in which the financial resources of every nation in the world will be tested as never before.

WHERE RAILROAD RECEIPTS GO

In order that the reader may realize what a tremendous factor the railroads are in the every day business life of the nation and what they mean to its prosperity, we wish to analyze briefly what becomes of an average year's railroad income. Just as the idea has prevailed income. Just as the idea has prevailed in the minds of many that the railroads are owned by a few rich men, so the thought has also found deep root that they collect millions of dollars from the public which go into the coffers of a handful of millionaires, and which are

permanently withdrawn from the thrift

and industry of the people.

At the close of the fiscal year ending June 30. 1913, the records at Washington show that the railroads of the United States had collected a gross income from States had collected a gross income from all branches of their service amounting to \$3,118,929,318. Of this sum, \$1,373,-830,589 was paid out for labor—or, to put it in another way, almost 50 cents out of every dollar they took in was immediately paid out to the hundreds of thousands of men and women whom they complex in the conduct of their business. employ in the conduct of their business. For maintenance of way, equipment, depots, etc., they disbursed \$929,167,491—or almost another thousand million dollars—and in this vast item the reader can grasp what railroad prosperity means to the great steel mills, the lumber and coal industry, the big car and locomotive building concerns, and other sources of railroad supplies. In taxes they paid out the enormous sum of \$129,052,922, which helped to maintain the public schools, public highways and other revenue expenses of every state, county and incorporated town and city in the country.

After the interest had been paid on their funded debt and all other characters of expense had been met, they had \$153,-426,676 left out of which to declare dividends and to use as a surplus fund for emergencies of one kind and another.

In other words, after the railroads got through paying for their labor, steel, lumber, coal, interest and other necessary expenses, the above little more than \$153,000,000 was all the surplus they had left for themselves out of an income of more than three billion dollars—and this, too, upon properties worth the gigantic sum of twenty billion dollars, or less than I per cent on the total investment. Thus it can be seen that on the basis of the present rates the railroads pay back to the public in one way and another prac-tically every dollar they receive for

BURNING CANDLE AT BOTH ENDS

As a matter of fact, if every railroad as a matter of fact, in every failtons in the country had charged off a proper percentage for depreciation, instead of having had a surplus of \$153,000,000 left in 1913 they would have had an actual deficit running into the millions. Some of the larger systems have a fixed yearly depreciation charge—but scores of the weaker liners, in their frantic endeavor to pay the interest on their debts and maintain the standing of their securities, use every dollar of their income to this end, and hence one of the most alarming phases of the present railroad situation is that this process of "burning the can-dle at both ends" means a deterioration of rolling stock and roadbeds which will render the continuance of adequate and safe service for the public impossible. In a recent article, James J. Hill, the great "Empire Builder of the North," points out that American railroads should spend at least \$500,000,000 annually in improvements and betterments and it is therefore no exaggeration to say that rapidly deteriorating equipment is one of the ghosts which haunts hundreds of railroad managers throughout the country at the present hour.

As was stated in last week's article, the fiscal year ending June 30, 1914, was \$120,000,000 less than for 1913, while expenses and taxes were \$76,000,000 greater. It can therefore be seen at a glance that unless the railroads are given some increase in rates in the very near future the time when many of them will go upon the rocks of financial ruin is not far off—and yet the slight increase necessary to save them is so small that the average citizen would not be conscious of it after it had gone into effect. In a future article this question will be more fully discussed.

A BAROMETER OF PROSPERITY

It is an old saying that when the railroads are prosperous everybody is prosperous, and the manner in which their income is disbursed, as above explained, tells the reason why. In short,

for years they have been regarded as the great business barometer of the nation. No other industry in the country employs so many men as do the railroads, and, furthermore, it is a high grade of labor employed upon as lucrative a basis as obtains in any other large industry. When times are good nearly two million people, first and last, are employed by the railroads, and when this vast army is working full time and is contented the millions they pay out for merchandise and for the living necessities produced on the farm cannot help sities produced on the farm cannot help but have a tremendous effect upon the

commerce and agriculture of the country.

But this is only half the story. Aside But this is only half the story. Aside from the nearly two million operatives directly employed by the railroads in normal times, the hundreds of thousands of men who work in the great steel mills, the coal mines, the lumber industry and in the big car and locomotive shops are equally vitally affected, for when the railroads are making extensive improvements and buying heavily of these supplies it means that these great industries are running full shift, while industries are running full shift, while when the railroads are subsisting only upon the absolute necessities it means that many of them are only working half shift.

FARMER VITALLY CONCERNED

That the farmer has a very vital and personal interest in this situation should be apparent at a glance. When the millions of laboring men in the United States are profitably employed and when all our great industrial enterprises are running full shift it means that he will have a larger demand and receive a higher price for the things he produces on his farm—for his corn, wheat, pork, beef, mutton, cotton, wool and other farm products. In other words, so interdependent bave we become, and so closely allied are the interests of the farmer, the merchant, the manufacturer, the labor and every other great national industry, that the prosperity of one has become the prosperity of all. (Paid Adv. To be continued next week.)

the profit which comes through the milk produced. Unless he so feeds and han-dles his cows that the milk flow is maintained it is certain that he is a loser financially. The first dairyman men-tioned above will not this winter be able to re-establish this lost milk flow. He will be short all winter and spring and cannot expect a material increase until the sun shines warm and the grass is green next spring. There are thousands of farm dairymen throughout Kansas who will have the same experience and who will feel that they are not getting value received for the feed congetting value received for the feed consumed by the cows and for the labor expended. The shrinkage in the milk flow during a cold spell may represent the actual net profit in keeping the herd. the actual net profit in keeping the herd. It is apparent, therefore, that profitable dairying is dependent upon such feeding and care during the winter and during unfavorable weather as will enable the cow to produce milk to the maximum of her capacity. We do not know just how the first dairyman was fixed in the matter of feed and buildings, but it is altoter of feed and buildings, but it is alto-gether probable that he was without palatable and succulent feed and also that he has no buildings for sheltering his cows. Profitable dairying cannot be done under such conditions. We do know that the second dairyman has silage, alfalfa hay and a comfortable but not expensive barn. These latter are essential in money-making cow-milking.

Concrete on the Farm.

Concrete is now used not only in cities and towns but on farms and in rural communities as well. The modern farmer uses it for foundations, sidewalks, basement floors, feeding floors, buildings, water tanks, silos, fence posts, and numerous other purposes. There is much to learn about concrete construction. The Kansas Agricultural College will this season give a short course which is intended for farmers who wish to do their own concrete work and for cement workers and contractors who wish to increase their knowledge of the subject.

Pit Silo Dangers.

Several deaths have resulted from as-phyxiation in pit siles in Kansas. Four phyxiation in pit silos in Kansas. Four men perished recently in a pit silo in Ohio. Attention to this danger is not called with the idea of condemning the building of pit silos. But, it is a warning to be careful. Ventilate the silo. In fermenting, silage throws off gases that force the free oxygen in the air out of an enclosed or partly enclosed space. Without oxygen to breathe animals can't live a minute, and when a man jumps

live a minute, and when a man jumps

into a silo or enclosure filled with these gases asphyxiation immediately follows. into a silo or enclosure filled with these gases asphyxiation immediately follows. Where the continuous door system is used, as in silos built above ground, there is provided a good circulation of air that insures absolute safety, but the pit silo that has no opening save at the top should in some way be ventilated, the ventilator extending at all times to within a few inches of the top of the silage. silage.

Sunflowers vs. a Corn Crop.

That sunflowers use three times as much moisture as the corn plant is a fact recently found to be true at the Nebraska Experiment Station. After comparing several corn and sunflower comparing several corn and sunlower plants during the growing season up to September I this year, it was found that the average amount of water used by a corn plant was four-fifths of a barrel, weighing 300 pounds. The average amount of water used by a sunflower was two barrels and a keg, weighing 952 pounds. From this it would appear that the farmer can well afford to keep downlost only his sunflowers but all other not only his sunflowers but all other weeds which are robbing the soil of moisture needed to grow a crop.—
Nebraska Bulletin.

Growing Alfalfa.

Growing Alfalfa.

"We are now sowing alfalfa in a section where it does not grow naturally. We find that well drained fields, well tilled, well fertilized, well timed and well inoculated, will grow alfalfa as readily as corn," writes G. W. Bush, agricultural agent, Oneida County, New York. The Kansan who would grow alfalfa and who has not in the past been successful in obtaining a satisfactory stand, should carefully read and re-read the above lines. The man who is located in the eastern half of Kansas and cated in the eastern half of Kansas and who has not obtained a stand, will find his field lacking in some one of the above respects. It is necessary only that the particular respect in which the field is lacking be determined and this corrected, in which the field is lacking be determined and this corrected, in order to grow alfalfa or clover suc-cessfully. It is not amiss to say that in the western half of the above section the matter of thorough preparation of the seed bed by good cultivation, is most needed. In the eastern and southeastern sections liming and manuring will over-come the difficulty on most farms.

Vacant Public Lands in Kansas.

The following acreage is that of the vacant public lands in Kansas. Neither the general land office nor the local land officers can furnish information as to the location or details as to character of soil of such tracts, but such informa-tion may be obtained from the records of the local land offices which, when not of the local land offices which, when not in official use, are open to inspection by prospective homeseekers. Before entry, personal inspection of the lands should be made to ascertain if they are suitable, and when the applicant is satisfied on this point entry can be made at the local land office in the manner prescribed by law and under the direction of the local law and under the direction of the local land officers. The following vacant unappropriated public lands are subject to entry under the homestead laws. Those entry under the homestead laws. Those upon which entry may be made through the Dodge City office are as follows: Barber County, 268 acres; Clark, 1,188; Comanche, 320; Edwards, 225; Finney, 2,391; Grant, 560; Gray, 40. These lands are described as being broken and sandy. Ford County, 30 acres; Ness, 200; Scott, 1,793; Stevens, 2,809. These lands are described as grazing lands. Greeley County, 6,806 acres; Haskell, 160. These are described as agricultural lands. Ham-County, 6,806 acres; Haskell, 160. These are described as agricultural lands. Hamilton County, 19,049 acres; Kearney, 1,320; Meade, 6,820; Seward, 6,315; Wichita, 280. These lands are described as grazing, broken, sandy. Morton County, 11,633 acres; Stanton, 5,511, and described as grazing and agricultural; Hodgeman County, 40 acres, described as broken; Lane County, 2,231 acres, described as broken; Lane County, 2,231 acres, described as grazing and broken; Stafford County, 41 acres, described as swampy. Total, 70,860 acres.

Land subject to entry through the Topeka office and all of which is described as rough and broken is as follows: Cheyenne, 16,780 acres; Ellis, 40; Gove, 4,380; Logan, 4,180; Wallace, 3,260; Rawlins, 2,320; Sherman, 320; Trego, 80. Total, 31,360.

Passing It Along.

Johnny had been talking a good deal about the things he was going to get for Christmas, so his father reminded him that it is "more blessed to give than to receive." Accordingly his father was greatly surprised to see over Johnny's stocking on Christmas Eve this message written in his childrich hand. written in his childish hand:

"Dear Santa: Papa says it is more blessed to give than to receive, so don's stint yourself in giving."

Light Weight Cushman Engines For All Farm Work

"I have had lots of experience with different gasoline engines," writes Dave Linton, Ransom, Ill. "We have all makes in this neighborhood. Some do what their makers claim, but it takes a team of horses and a crowbar to get them on the job. A Cushman of the same horsepower will do the same work, and a 14-year-old boy will move it from one job to another.

"Light weight, full horsepower, least vibration and great range of speed, has made the Cushman not only the farmer's best chore boy, but his wife's as well."

4 H. P. Only 190 lbs. Easy to Move Around

Easy to Move Around

This is used for all regular light jobs, and can be attached to other machines, such as grain and corn binders, etc. 8 H. P. weighs only 220 lbs., for heavier work, as grinding, sawing, etc., and can be attached to hay balers, corn pickers, etc., to save a team. Throttle Governor gives steady power, with extra power quickly when needed, as in sawing and grinding. Schebler Carburetor.

4-Cycle. Not a cheap engine, but built to do work no other engine will do and run without

BSORBINE TRADE MARK REG.U.S.PAT. OFF

Removes Bursal Enlargements,
Thickened, Swollen Tissues,
Curbs, Filled Tendons, Soreness from any Bruise or Strain;
Stops Spavin Lameness. Allays pain.
Does not Blister, remove the hair or
lay up the horse. \$2.00 a bottle,
delivered. Book 1 K free.

ABSORBINE, JR., the antiseptic liniment for mankind. For Synovitis, Strains,
Gouty or Rheumatic deposits, Swollen,
Painful Varicose Veins. Will tell you
more if you write. \$1 and \$2 per bottle at
dealers or delivered. Manufactured only by
W.F.YOUNG, P.O. F., 211 Temple \$1, Springfield, Mass.



THE UNITED STATES
SPARK ARRESTER
Guaranteed for lignite coal,
straw, etc. Not the cheapest
but the world's best spark
arrester. No retarding draft.
Special screens for lignite
coal. Ten days' trial before
sending money. For full description and prices address
U. S. SPARK ARRESTER
MFG. CO.,
Wilton, McLean Co., N. Dak.

THE STANDARD **PAPERS**

BEST FOR THE READER BEST FOR THE ADVERTISER Arranged According to Location, Reading

From West to East

Guarn. One Cir. Line Kansas Farmer ... 61,258 .80 Oklahoma Farm Journal. .25 Journal. 51,894 25
Oklahoma, Okla.
Wallace's Farmer 80,000 40
Des Moines, Iowa.
Missouri Farmer 50,000 25
Columbia, Mo.
The Farmer 140,855 60
St. Faul, Minn.
Breeder's Gazette 98,558 60
Chicago, Ill.
Prairie Farmer 100,000 50 .40 .25 .55 .60 .50 Prairie Chicago. Chicago. Wisconsin Agriculturalist. 63,454 .80 Racine, Wis. Racine, Wis. 67,820 .40 Ft. Atkinson, Wis.
Progressive Farmer 174,000 .80
Birmingham, Ala.
Indiana Farmer ... 57,101 .25
Indianapolis, Ind. .80 .25

Michigan Farmer. Detroit, Mich. (Rate 40c per line) Ohio Farmer, -256,861 \$1.121/2 \$1,121/2

Cleveland, O.
(Rate 60c per line)
Pennsylvania
Farmer,
Philadelphia, Pa.
(Rate 25c per line)

1,201,917 \$5.771/2 \$5.721/2 These publications are conceded to be the authoritative farm papers of their individual fields.

For further information



LIVE STOCK



Secretary Houston in his annual report which is just now being distributed, devotes several pages to the subject of our meat supply. The Federal Department of Agriculture has recognized the ment of Agriculture has recognized the situation the nation is facing and, realizing the urgency of the problem, the secretary has appointed a committee consisting of the best authorities he could discover, to make a systematic study of this subject. This committee has been instructed to make a survey of the whole field and will report at the earliest practical moment its findings. This investigation of the committee will embrace not only the study of the production of meat, but will go into the consumption, marketing and distribution.

Even before this committee makes any

report there are certain facts which stand out clearly at the present time. Secretary Houston goes on to say in this report, "It is evident that we have been considering the meat supply of the nation too exclusively in terms of the big ranch and of beef animals. Obviously it is important that we continue to help the cattlemen and to assist in further the cattlemen and to assist in further developing the big ranch. No pains will be spared to do this. The Department is now spending money to develop the live stock industry in connection with the reclamation projects and is asking for more. But unquestionably the largest hope for a considerable increase in our meet supply lies in four other directions. our meat supply lies in four other directions: First, in a more satisfactory handling of the public grazing lands; second, in systematic attention to the production of beef animals in the settled farming areas of the country, particu-larly in the South; third, in increased attention to the smaller animals, such as swine and poultry; and fourth, in the control and eradication of the cattle tick, hog cholera, tuberculosis, and other ani-mal diseases and pests."

The suggestion regarding the taking up in a systematic manner the production of the beef animals in regular farming areas and likewise the giving of in-creased attention to the smaller domestic animals, such as sheep, swine and poultry, applies directly to conditions existing in Kansas. With the assurance of good prices for live stock products, the farms of Kansas could make great increases in the production of meat. Steps are being taken in that direction and many farmers are equipping themselves with the necessary cows and mak-ing arrangements for utilizing to the best advantage possible the rough feeds of the farm.

In the recent annual report on Kansas crops put out by Secretary J. C. Mohler of the State Board of Agriculture, he comments as follows on the kafir crops of the state: "It is inter-esting to note that kafir has again made a better average return per acre than corn, amounting to \$15.70, while that of corn is \$11.20, thus kafir continues to give a good account of itself. The same may also be said of the other sorghums and returns suggest that these crops might well take a more prominent place in the agricultural affairs of Kansas."

In this statement by Secretary Moh-ler the way is pointed out for the great-est increase in live stock production that could be brought about in our state. Kafir and the other sorghums have made this good showing in acre returns largely because of their recognition and use as feed crops. Wherever they have been used in the feeding of farm animals they have been converted into meat and other live stock products with good round profits to the producer. As yet the matter of utilizing these crops to the fullest extent in this direction has hardly been more than suggested. Through the enlarging of our silo capacity throughout the state, the equipping of farms with breeding stock and the more general adoption of the sorghums as the chief feed crop instead of relying on corn, would make Kansas one of the great meat-producing states of the nation.

There are no wider possibilities opening up to the young farmer at the present time than those lying in the direction of seriously taking up the matter of live stock production and depending largely upon the sorghums for feeds. Even the hog need not be neglected in

this capacity, and the hog has generally been recognized as one of the most profitable farm animals grown. Hogs have always made money where they have been given a reasonable chance, and by paying careful attention to the pro-duction of the grain sorghums the necessary grain feed can always be grown.

We noticed recently in an interview

given by E. C. Pile, a stock farmer of Seward County, as he was marketing two carloads of cattle in Kansas City, that there were twenty carloads of mile on the train on which he came in. He stated that all through his section kafir had been yielding forty bushels to the acre of grain and some of his neighbors had raised as much as fifty bushels of feterita. Where such yields of grain can be produced, the hog can be made a most profitable farm animal, and to the poor man or other men of small capital the hog especially commends itself because of the small investment required in breeding stock and the rapidity with which they reproduce. The hog need not be confined, by any means, to what is commonly called the corn belt.

Feeding the Pregnant Sow. One of our readers in Riley County writes to ask whether it is advisable to use tankage in the ration of the sow due to farrow in the spring. Probably more breeders and farmers make mistakes in the handling of brood sows than in any other phase of the hog business. The first important consideration is the proper selection of the sow which is to bring the pigs for the next year's feed-ing. The feeding of these sows through the pregnancy period is oftentimes responsible for bad results. It is absolutely essential that they be fed a balanced ration. The development of the unborn young requires plenty of bone and muscle-making material. This must be applied in the form of protein and necessary bone-making material in the feed given to the sow during this period.

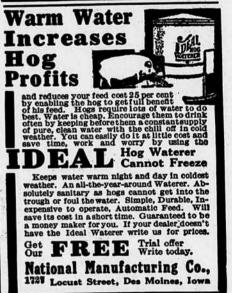
Corn is deficient in both of these elements and this grain alone is most un-satisfactory. Wherever alfalfa is raised an ideal brood sow ration will be found in a combination of alfalfa and corn. Plenty of good alfalfa hay available at all times with about one pound of corn per hundred weight of sow is as cheap and efficient a ration as can be desired. With a ration of this kind, tankage or other high protein concentrate is not necessary, unless in the case of the immature gilt still making growth. The gilt can hardly handle a sufficient amount of alfalfa to meet her own requirements for growth and those of the developing pigs. It is not usually desirable to feed mature brood sows and gilts in the same pens for this reason. If this practice is followed it results in a failure of the gilts to grow out as they should, and if continued in for any length of time the size of the breeding stock is sure to be reduced and the animals made less

vigorous.
Where the alfalfa is not available, the corn ration must be supplemented with some protein supplement. One part of tankage to fiftten of corn is a good pro-portion for a brood sow, or one part of oil meal to eight or nine parts of corn. These rations are very concentrated, and it is always desirable to supply bulk in some way. Oats may be made a part of the ration where they are available, substituting them for part of the corn. Bran may be used where oats are not available.

There is another most important consideration in handling a brood sow during this period, and that is the need of exercise. It is usually almost necessary to compel sufficient exercise, at least during the cold winter weather. Scattering the shelled corn fed, or the oats over a considerable area keeps the sows on their feet and thus enforces exercise. Feeding them a considerable distance from their sleeping quarters is another means of encouraging sufficient exercise.

When the snow is on the ground is a good time to spread straw. The straw will help to hold the snow and thereby increase the chance for the crop. It is oftentimes more convenient to spread straw when the ground is covered with snow than at other times. The straw spreader is the implement to use.

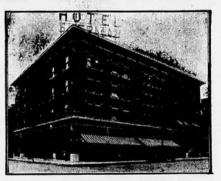






When writing to advertisers, please mention Kansas Farmer.

HOTEL SHERMAN



"Kansas City's Newest Hotel" European plan, \$1 up. Moderate priced cafe. Convenient to shopping district. E. W. SHERMAN, PROP.

Ninth and Locust Sts., Kansas City, Mo. Ask your dealers for brands of goods advertised in KAN-

SAS FARMER.

HOME CIRCLE



When packing away white goods wrap them up in dark blue paper or cambric. This will prevent their turning yellow.

When you have to mend a garment or article made of sheer material, the work will be greatly facilitated if you place the work in embroidery hoops. In this way all danger of puckering the work is overcome and the work is much easier

Delicious Sour Cream Pie.

Delicious Sour Cream Pie.

Mix together one cupful of sour cream, one cupful of sugar, half a cupful of chopped seeded raisins, one heaping tablespoonful of flour or cornstarch, the well-beaten yolks of two eggs, a little grated nutmeg, one-fourth of a teaspoonful of ground cloves and half a teaspoonful of ground cinnamon. Blend thoroughly and bake in an under crust. Make a meringue of the stuffy whipped whites of the eggs mixed with two tablespoonfuls of powdered sugar, spread this over the pie and brown delicately in a moderate oven. Buttermilk may be in a moderate oven. Buttermilk may be

used instead of the sour cream if one teaspoonful of butter is added.

Peanut-Butter Candy.

This is such a simple recipe that it is just the thing for children to use. Blend together two cupfuls of sugar, half a cupful of milk and two tablespoonfuls of peanut butter. Boil for five minutes; remove from the fire and beat steadily until cool. Pour onto buttered plates and mark into squares.

Caramel Rice Pudding.

This will be found a delicious, nutritious dessert and one that is very easily tious dessert and one that is very easily digested. Beat until light the yolks of two eggs and add a tiny pinch of salt, one and a third cupfuls of milk, two cupfuls of cooked rice, one cupful of very dark brown sugar and half a teaspoonful of vanilla extract. Mix well, turn into a greased pudding mold and bake about thirty minutes in a moderate oven. This pudding may be served either hot or cold pudding may be served either hot or cold and is delicious if accompanied by a whipped cream sauce.

FASHION DEPARTMENT — ALL PATTERNS TEN CENTS

This department is prepared especially in New York City for Kansas Farmer. We can supply our readers with high-grade, perfect-fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompanies each pattern. When ordering all you have to do is to write your name and address plainly, give the correct number and size of each pattern you want, and enclose 10 cents for each number. We agree to fill all orders promptily and guarantee safe delivery. Special offer: To anyone ordering a pattern we will send the latest issue of our fashion book. "Every Woman Her Own Dressmaker." for only 2 cents; send 12 cents for pattern and book. Price of book if maker. To peka, Kansas.



No. 6972—Ladies' Dress: This stylish gown has a separate guimpe to which the sleeves are attached. The outer tunic is a "chemise" form, straight from shoulder to hem and forming a panel in the center front, where the closing is placed. There is a three-gore foundation skirt and to this the lower skirt section is attached. The pattern, No. 6972, is cut in sizes 34 to 42 inches bust measure. No. 6974—Ladies' Waist: A new idea is shown in this charming waist in the back, which is in cape form, although this part may be omitted and the plain underback used alone. The front is plain, with center closing and open neck with high turnover collar in the back. The pattern, No. 6974, is cut in sizes 34 to 44 inches bust measure. No. 6991—Ladies' House Dress: This is essentially a serviceable frock. It has a side front closing with ornamental tab arrangement. There is a tuck at each shoulder in front, but the back is plain. The skirt has seven gores with reversed plait in the center of the back. The pattern, No. 6991, is cut in sizes 34 to 44 inches bust measure. No. 6970—Girls' Dress: A handy slip-on frock is here shown made with the neck cut out in front and back and with small box plaits extending the full length of front and back. This frock has no opening except at the neck and is slipped on over the head. With it is worn a one-piece guimpe, fastening in front. The pattern, No. 6970, is cut in sizes 6, 8, 10 and 12 years. No. 6969—Ladies' Skirt: Made with the waistline a trifle raised, this skirt has a deep yoke, closed in front and to this the box-plaited lower portion is attached. This skirt may serve as a walking skirt; just as shown, or it may be shortened and used as a tunic. The pattern, No. 6969, is cut in sizes 22 to 32 inches waist measure. No. 6967—Girls' Dress: This smart little frock is admirable for combinations of material as suggested. The blouse is a separate garment, with very deep armholes, front closing and wide collar at the neck. The tunic section overhangs the skirt, which is separate, plaited al

SCHOOLS AND COLLEGES

CHRIST'S HOSPITAL

TRAINING SCHOOL FOR NURSES

Christ's Hospital offers to young women a three years' course of theoretical and practical training in Nursing. NO CHARGE FOR TUITION. Board, Uniforms, Shoes, Laundry are provided by the Training School Free of Charge. For complete information address tion address MISS ESTHER O. WEST, R. N., Supt. of Nurses, Christ's Hospital, Topeka, Kansas.

10th & Oak Sts., KANSAS CITY, MO.
47th Year. \$100,000 College Building has 15 Rooms, including Auditorium and Free Gymnasium.
SHORTHARD, TYPEWRITING, BOEK-REEPING, TELEORAPHY AND ENGLISH. DAY & NIGHT SCHOOLS.
Write to-day for FREE Catalogue "O".

Bargains in Land

WE SELL OR TRADE ANYTHING, ANYWHERE, BRALTY EXCHANGE CO., NEWTON, KAN.

Buy or Trade with us—Exchange book free Bersie Agency, Elderade, Ea.

FARM FOR SALE

Which has been rented for past ten years and paid owner 10 per cent net income. Sell on terms. SOUTHERN REALTY CO., McAlester, Okla.

GOING SOUTH? OUR LIST OF TRUCK and stock farms and plantations in Louisiana may include your wants. Write for catalog. Galbreath Bros., Memphis, Tenn.

FOR JEFFERSON COUNTY or Northeast Kansas farms, any size, where alfalfa, blue-grass and corn are the staple crops, at from \$60 to \$100 per acre. Write or see The Harman Farm Agency, Valley Falls, Ks.

NOTICE—We are making exchanges of all kinds of property, no matter where located. Send your description at once and get terms. No fees.

MID-WEST REALTY EXCHANGE,
Dept. 6. Riverton, Nebraeks.

FOR SALE 210 ACRES

120 in cultivation, bottom land; fine location; fine improvements; an ideal home, 8 miles from Manhattan, ½ mile from railroad town. Price, \$25,000. Terms to suit. S. A. BARDWELL, Owner, Manhattan, Kan.

DOUGLAS CO. BARGAIN

160-acre stock farm in Douglas County; 120 acres good native pasture, 40 acres plow land. More can be plowed. Improvements. Write owner for particulars. N. F. FLORA, OVERBROOK, KAN.

LOOK HERE | So-Acre Farm in garden spot of Kay Co. Five-room house, miles woven wire fence. Easy terms. Quick sale, \$4,000. O. K. Realty Co., Newkirk, Okla. SPECIAL SNAP

Eighty acres, improved, well located, in Southeastern Kansas. Terms, \$800 cash, balance in small payments from 2 to 10 years. Price very low. Fine climate. Big erops. Send for illustrated booklet. Ad-dress. THE ALLEN COUNTY INVESTMENT CO., Iola, Kansas.

MANHATTAN RESIDENCE

Eight-room modern house, Manhattan, Kan. Corner lot, 75x150 feet, facing city park. Built by owner for home. Leaving city reason for selling. One of the choice locations of the city. Write for photos and further information. Address

W, KANSAS FARMER, TOPEKA, KAN.

IRRIGATED ALFALFA LANDS

IRRIGATED ALFALFA LANDS

In the wonderful Pecos Valley of Texas.

Most profitable farming in the world; 5 to
7 cuttings annually with average price above
\$14 five years past; finest fruit in America;
better climate than Kansas; cheapest water;
lowest taxation and freight rates; best and
cheapest irrigated land anywhere; will sell
20 acres or more on terms to suit, or accept choice city or farm realty in payment.
Special inducements to colonies. Write for
full particulars. full particulars. STRATTON LAND CO., Wichita, Kansas.

COME TO THE BIG OATS COUNTY.
Labette leads Kansas in oats, is a coming alfaifa county, raises big wheat, corn, timothy, clover; fine markets, schools and cities. A dandy 160 at \$5,500. Write for illustrated land list.
D. H. WALLINGFORD, Mound Valley, Kan,

ARKANSAS A new section of Arkansas has been opened by the Missourier of the farmer, merchant and timber man; good land at low prices; there is no malaria, in this section; an abundance of good spring water; land values are increasing daily; this is in the high lands of Arkansas. Write for free booklet, "Oak Leaves," containing full information.

JAY KERR, G. P. A., Harrison, Ark.

When writing advertisers, please mention Kansas Farmer.

FOR SALE OR EXCHANGE

\$50-Acre Grain and Stock Farm, Ford Co., Kansas, two miles from railroad stations; seven-room house, frame barn, all fenced part in cultivation, thirty acres alfalfa, mortgage \$3,000. Will exchange equity for eighty acres in Eastern Kansas, fruit farm or suburban tract of equal value. Price, \$35

W. T. COOLIDGE, TOPEKA, KANSAS.

TEXAS RANCHES

Texas ranches in any size you want, in any part of the state. Also colonization tracts. Years of experience in handling farm lands and ranches. Inspection reports made on Texas property. Have a few good tracts that owners will accept part in trade. Greatest demand in the history for Texas ranches. In writing, state what size tract you want.

J. WALTER DAY, 215 Finance Building, Kansas City, Mo.

Sacrifice For Quick Sale \$10. Acre tract (all under fence), fine level laying irrigated and shallow water Arkañsas Valley land two miles from McColorado, in fine stock and dairy country. Adjoins irrigated alfalfa farms valued at \$50 to \$100 per acre. 160 acres of tract has Fort Lyon Canal, water right. Price, \$10 per acre. Encumbrance, \$2,500, 7 per cent, balance cash. No trades. Write for plat, map and full details. Greatest land bargain ever offered.

BOX 7, LAMAR, COLORADO.

SEND FOR BOOKLET, "PROFITABLE Poultry Selling," issued by Kansas Farmer. Topeka, Kan.

LOWER YAKIMA VALLEY.

Ten acres highly improved irrigated land at Richland, Benton County, on the Columbia River, in the early fruit belt of the Northwest. Eight and one-haif acres in commercial apples five years old with 200 peach fillers, all in bearing. The place is well fenced, flumed and leveled, the land very productive; 6½ acres of orchard in alfalfa, 1 acre in strawberries, 2½ acres ready for planting early potatoes. No buildings. Trees are in fine condition. Trade for Kansas land near Topeka. Owner. sas land near Topeka. Owner, J. KLEIN, Kansas Farmer, Topeka, Kan.

DO YOU READ the Small Ads in the **Classified Section?**

Many of these "Want" Ads contain information that will prove valuable and profitable to you. You ought to read them every issue.

Good pay and permanent business connection for one man in each county in Kansas to look after established business.

Twenty-six dollars or better per week at start, working small towns and rural routes. Good chance for rapid advancement. Farmers and farmers' sons with a little spare time especially wanted. Previous experience not Write at once

J. H. YETTER, SALES MANAGER, 625 JACKSON ST., TOPEKA, KAN.

ARE YOU INTERESTED

In selling Breeding Stock and Eggs to the best advantage? Send for

PROFITABLE POULTRY SELLING ISSUED BY KANSAS FARMER

If you are planning to find sales for surplus stock and eggs you should have this booklet. A post card will bring it to you by return mail.

Classified Advertising

Advertising "harpain counter." Thousands of people have surplus items of stock for sale—limited in amount or numbers hardly enough to justify extensive display advertising. Thousands of other people want to buy these same things. These intending buyers read the classified "ads"—looking for bargains. Your advertisement here reaches over 250,000 readers for 4 ceats a word per week. No "ad" taken for less than 60 cents. All "ads" set in uniform style, no display. Initials and numbers count as words. Address counted. Terms, always cash with order.

SETUATIONS WANTED ads, up to 25 words including address, will be inserted free of charge for two weeks, for bona fide seekers of employment on farms.

HELP WANTED.

AGENTS WANTED—FALLS CITY NURSery, Falis City, Neb.

RAILWAY MAIL CLERKS, CLERKcarriers and rural carriers wanted. I conducted examinations—can help you. Trial examination free. Ozment, 44-R, St. Louis.

MOTORMEN-CONDUCTORS; INTERURban, cara \$30 monthly; experience unnecescary. Qualify now. State age. Details free. Dept. Q. Kansas Farmer.

FIREMEN AND BRAKEMEN, \$100 monthly; experience unnecessary; hundreds needed by the best railroads everywhere. Particulars free. 801 Railway Bureau, East St. Louis, Ill.

MEN BETWEEN 18 AND 35 WANTED. 375.00 month. Government rallway mail clerks. Examinations likely announced everywhere January 15. Full description free. Franklin Institute, Dept. O32, Rochester, N. Y.

SALESMEN WANTED FOR FULL LINE fruit and ernamental trees. No experience necessary. Full or part time as you prefer. Prompt pay each week. The Lawrence Nurseries, Lawrence, Kan.

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

MEN 20 TO 40 YEARS OLD WANTED at once for electric railway motormen and conductors; \$50 to \$100 monthly; no experience necessary; fine opportunity; no strike. Write immediately for application blank. Address Manager, B167 Dwight Bldg., Kanass City, Mo.

REAL ESTATE.

PECOS VALLEY IRRIGATED FARMS.— G. M. Brown, Artesia, New Mexico.

OZARK FARMS AND PASTURE LAND at lewest prices and liberal terms. Write for list. Avery & Stephens, Mansfield, Mo.

ITS \$5,000.00—185 ACRES WELL IMproved; 3 miles this town. Terms suit. J. P. Donahue, Mound Valley, Kan.

WANTED—TO HEAR FROM OWNER OF good farm or unimproved land for sale. C. C. Buckingham, Houston, Texas.

1,280 ACRES TEXAS PANHANDLE, near railroad; best grade of land for general farming and stock raising; \$7.50 per acre. Henry Sayles, Jr., Abilene, Texas.

FREE LISTS OF NESS COUNTY GRAIN, stock and alfalfa land. Fine land at \$10 to \$15 per acre. Easy terms. West, Ransom, Kan.

FOR SALE OR EXCHANGE FOR KANsas or Missouri farm, fifteen-acre tract in orchard, improved, ¼ mile from city limits of Roswell. W. W. King, Roswell, N. Mex.

FOUND—HOMESTEAD NEAR FT. MORgan. 329 acres rich farm land, not sand. Price, \$208, filing fees and all. J. A. Tracy, Fort Morgan, Colo.

REAL ESTATE WANTED—SELL YOUR property quickly for cash, no matter where located. Particulars free. Real Estate Salesman Co., Dept. 77, Lincoln, Neb.

NICE LEVEL 320-ACRE HOMESTEADS in Oregon. Best of soil, water and climate; soil eight feet deep, no stone. Send \$1 for map and literature to locator. Frank Marrill, Ontario, Oregon.

FARMS WANTED—WE HAVE DIRECT buyers. Don't pay commissions. Write describing property, naming lowest price. We help buyers locate desirable property Free. American Investment Association, 48 Palace Bidg., Minneapolis, Minn.

KANSAS CITY BUSINESS PROPERTY, 150x50 feet, corner Fifth and Troost Ave., must be sold to settle an estate. A rare bargain in the fastest growing city in the West. Address K. C. Property, care of Kansas Farmer.

FOR SALE—STOCK FARM, 760 ACRES, 7 miles from Woodston, Rocks County; 180 acres creek bottom, 230 acres in cultivation, 50 acres alfalfa, two sets good improvements. Price for quick sale, \$27.50 an acre. Good terms. Cedar Bluff Stock Farm, Woodston, Kan.

WANT TO SELL MY PROPERTY IN Conway Springs: 2½ acres, 6-room house, good barn, chicken house, some fruit and shade trees; all fenced with 4-foot woven wire; only 2½ blocks from high school. Would be an ideal place for chicken ranch. Bargain, terms. J. E. Jackson, Detroit, Kan.

FOR. SALE AT A SACRIFICE BY THE owners, two improved farms in most favored section of rich and rapidly developing state, Northeast Arkansas. Very productive, no crop failures. Also 280 acres unimproved iand. Business changes necessitate sale. Easy terms. Write T. J. Ellis, Jonesboro, Ark., for further particulars.

CATTLE.

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

FOR SALE—ONE REGISTERED HOLstein buil nine months old. J. A. Forth, Overbrook, Kan.

FOR SALE — OUR REGISTERED HOLstein herd bull and two young bulls. P. Haverty, Hollenberg, Kan.

FOR SALE—THIRTY-FIVE HEAD OF one, two and three-year-old fawn colored Jersey heifers, also a few cows. Also two one-year-old registered Jersey bulls. A nice lot. R. F. Hodgins, Silver Lake, Kan.

SITUATION WANTED.

WANTED—WORK ON WELL EQUIPPED live stock farm, either salary or on shares. Can give good references. Roll R. Passmore, Urbana, Mo.

WANT A JOB ON FARM AS MANAGER or will rent a fully equipped farm on shares or will buy on shares. J. W. Beles, Fredericksburg, Iowa.

TREES, SEEDS AND PLANTS.

WRITE J. E. WARRICK, HASTINGS, Neb., for feterita seed.

SUDAN GRASS SEED, GUARANTEED free from Johnson grass, 50 cents per pound. Walter Jenkinson, Pond Creek, Okia.

SUDAN GRASS SEED. — NORTHERN grown Sudan grass seed for sale. Write for prices. Fred Leidigh, Box 28, Hutchinson, Kan.

MISCELLANEOUS.

WHEELBARROWS, FARMER'S PRIDE. King of all barrows. Hand made, freight prepaid. Send for circular. N. H. Parkinson & Sons, Kent, Ill.

BUY YOUR LUMBER, DOORS, WINdows, shingles, etc., direct from mill, saving 25 per cent. Payment after examination, your town. Powell Land & Lumber Co., Rusk, Texas.

MAKE YOUR FRIENDS THINK YOU are visiting St. Louis. Will mail city view cards from St. Louis to your friends with your message, 5 cents each. Acme, B. 706, St. Louis, Mo.

FARMERS, DO YOU NEED MONEY? We negotiate for farm loans, five years at 5 per cent, dealing direct with borrower; 2½ per cent straight commission. Correspondence solicited. Security Farm Loan Assn., 20 E. Jackson Blvd., Chicago, III.

FREE FOR SIX MONTHS—MY SPECIAL offer to introduce my magazine, "Investing for Profit." It is worth \$10 a copy to anyone who has been getting poorer while the rich, richer. It demonstrates the real earning power of money, and shows how anyone, no matter how poor, can acquire riches. Investing For Profit is the only progressive financial journal published. It shows how \$1100 grows to \$2,200. Write now and I'll send it six months free. H. L. Barber, 431-28 W. Jackson Blvd., Chicago.

DOGS.

COLLIE PUPPIES. U. A. GORE, SEWard, Kan.

SCOTCH COLLIES FOR SALE. A. W. Toews, Inman, Kan.

ONE RUSSIAN WOLF HOUND AND registered greyhounds for sale. Chas. Branson, Waverly, Neb.

THOROUGHBRED WHITE RUSSIAN wolfhounds, old and pups, \$5 to \$25. J. R. Cox, Plainville, Kan.

FOX TERRIERS, ALL AGES. BEST RAT, pet or watch dogs. T. H. Kaldenberg, Pella, Iowa.

HONEY.

HONEY—FANCY LIGHT AMBER, \$10.00 per two 60-pound cans, amber, \$9.00 per two 60-pound cans. Single cans, 25 cents extra. Bert W. Hopper, Rocky Ford, Colo.

PURE HONEY DIRECT FROM BEE farm to you, cheaper than sugar. Sixty-pound can, \$5.00; case of two cans, \$5.00. Special price on larger lots. All f. o. b. Hotchkiss, Colo. Sample free, but send 10 cents to cover mailing charges. Frank H. Drexel, Crawford, Colo.

PATENTS.

PATENTS PROCURED OR FEE REfunded. Official drawings free. Send sketch for free search. Patent Exchange, Jordans Bldg., Washington, D. C.

THE STRAY LIST

E. F. JESSEE, COUNTY CLERK, NEMAha County. Taken Up—By George Payne, on the 22nd day of November, 1914, one red heifer, yearling, red, notch in left ear. Appraised value, \$30.

IRA WHIPPLE, COUNTY CLERK, Greenwood County. Taken Up—By C. E. Hammond, on the 21st day of Nevember, 1914. one steer, 950 pounds weight, red with white face. Appraised value \$75. Crop off right ear, notch in left ear.

GEO. H. HUNGERFORD, COUNTY Clerk, Riley County. Taken Up—On the 11th day of November, 1914, by Walter J. Wood, Manhattan, Kan., 1026 Kearney St., one female hog, dark red, tip of one ar froze off, ring in nose, weight about 225 pounds. Appraised value, \$14.59.

HORSES AND MULES

SHETLAND PONIES—CHARLES CLEMnons, Coffeyville, Kan.

YOUNG JACK, EXTRA GOOD, TO Exchange for young stock. W. J. Strong, Moran, Kan.

SHETLAND PONIES SUITABLE FOR Christmas presents. C. H. Clark, Lecompton, Kan.

NINE PERCHERON MARES COMING two years old; three mules, one young jack. Priced to sell. F. U. Dulton, Penalosa, Kan. When writing advertisers, please mention : Kansas Farmer.

POULTRY

If your poultry house is not warm enough to prevent the combs of your hens from being frosted, it is not warm enough for they for laying purposes.

Breeders of fancy poultry as a rule do not care to have their hens lay many eggs in winter, for they know if they do so they will not have many eggs in the hatching season; the hens will have laid themselves out. But those who raise poultry for commercial purposes want eggs in winter time, and want them badly, for them it is that they get the best prices. But no eggs can be expected in a cold house, especially if it is cold enough to freeze the combs of the fowls.

The State Fair Association of Topeka has just finished paying all premiums won at the fair last fall. They succeeded in putting on the best stock show ever held in the state, but owing to bad weather fair week the attendance was not as large as expected and therefore reduced the receipts. Otherwise the premiums would have been paid long before now. But the money came in good season—just in time for the Christmas holidays.

The Kansas State Poultry Federation held its second annual show at the Auditorium, Topeka, December 7 to 12. It was a fine show of about 1,500 birds of extra good quality. The displays of White Wyandottes, Buff Cochins, White Leghorns, Barred Plymouth Rocks, Silver Wyandottes, Buff Orpingtons, White Orpingtons, Rhode Island Reds and Buff Plymouth Rocks were exceptionally fine, and such an aggregation of superior birds is rarely seen in one show. At this writing we have not seen the list of awards and therefore cannot name the winners. The weather during the week was miserable and in consequence the attendance at the show was very small. We understand, however, that financially the show will come out all right.

Some very interesting facts can be gleaned from the report of the National Laying Contest, just completed at Mountain Grove, Mo. The ten highest pens and the number of eggs laid by each were as follows: Single Comb White Leghorns, 2,296 eggs; White Wyandottes, 2,047; White Wyandottes, 2,006; Single Comb Reds, 1,996; Barred Plymouth Rocks, 1,867; Single Comb White Leghorns, 1,821; Barred Plymouth Rocks, 1,784; Silver Wyandottes, 1,764; White Plymouth Rocks, 1,752. Both of the highest pens were from England and owned by the same man. The hens in this contest averaged 159 eggs. There were several hens that did not lay an egg during the entire year. The average of all White Wyandottes was 190 eggs per hen for the year. Barred Plymouth Rocks averaged 176; Single Comb White Leghorns, 172; White Plymouth Rocks, 171; Single Comb Rhode Island Reds, 171; Buff Orpingtons, 163; Anconas, 162; Black Minorcas, 160, and Campines, 139. One hundred and fifteen hens laid over 200 eggs each; the highest of all, a Single Comb White Leghorn, 286 eggs.

The poultry shows are now in full swing, and many will be the men and women that will be stricken with "chicken fever." This is not a fever to be afraid of, nor ashamed of, but one devoutly to be wished; for it is a desire to perform something useful and profit-able. All persons who go into the poultry business should have some well defined ideas as to what they want. One may desire to supply his home table with meat and eggs; another to supply meat and eggs for the general market, and still another may like to go into the business just for the love of having fancy poultry. Now it may be possible to secure all these ends in one combina-tion but it is not always done and it tion, but it is not always done, and it is better to have one definite object in view and follow that persistently. If you are planning to supply your family with meat and eggs, get some breed that lays well and at the same time will dress a suitable weight for eating. The American class of fowls can be relied upon to furnish all that is necessary in this line. If you aim to go into the business for commercial purposes, then the enterprise becomes one of great importance and you must take lots of time to study the

breeds as well as the markets that you intend to cater to. If you intend to go into the work with the view or raising a few choice birds for exhibition and for love of the fancy, then your own tastes and inclinations are to be considered before anything else. This is a worthy purpose and will prove a constant pleasure and recreation. It is to be supposed, however, that the person attempting to do this has other business which provides for his family needs. To make such a start some money must be invested in good stock. The class of stock purchased must necessarily be high grade, for anything else would defeat the purpose of your work. In fact, the very best obtainable stock should be purchased. With such a start you would be in a position to breed good birds. Then as you make selection of your stock for the show room, you will be reasonably sure that they would stand as good a chance as the rest of the birds in competition. Quality counts, however, no matter along what line you work. Get the best stock you can, for the purpose for which you want it. By doing this you will obtain the desired and hoped for results. But don't expect to make much money for a considerable time, if you take up this latter part of poultry work, for the fancy poultryman must devote lots of time and lots of money to the cause before he gets any returns. But the pleasure and recreation a man may get out of the business ought to count for considerable, especially if it proves a means of taking his mind and cares away from a too-engrossing business for a period. A business man at times needs something to take his mind away from business worries and nothing will do this like taking care of some fancy poultry for a few months.

Big Poultry Meeting.

What is expected to be the largest poultry meeting ever held in the state of Kansas will occur at the Kansas State Agricultural College, December 30-31 and January 1. It will be a field meeting of the Kansas State Poultry Federation at which experts in judging, feeding, breeding and the general care of poultry will give the benefit of their experience and study. This information will be given out in the form of short, snappy lectures. There will be a poultry show and free judging school in connection with the field meeting. Liberal cash premiums have been provided for all standard varieties of chickens, and the special cash premiums of \$5, \$10 and \$15 on several varieties give promise of attracting a splendid display of birds which will be used in the free judging school. Judging from the inquiries, the classes of dressed poultry and eggs will attract considerable attention. It will be possible for someone to win \$25 on five dozen eggs and \$15 on the best dressed carcass in the show. Competition is open to everybody in the state. For further information and premium list, address the Poultry Department, Manhattan, Kan.

Lessons Learned from Contest.

All previous records have been broken in the national egg-laying contest which closed December 1 at the Missouri State Poultry Experiment Station, Mountain Grove. Lady Laymore, hen No. 611, a Single Comb White Legborn from Nebraska, tied the world's trapnest record for an egg-laying contest. She laid 286 eggs in twelve months. She beat Lady Showyou's record by five eggs. The English pen of S. C. White Leghorns won the grand championship by laying 2,297 eggs. Every one of the pens in this pen event one laid over 200

the grand championship by laying 2,297 eggs. Every one of the pens in this pen except one laid over 200 eggs.

Why is it that some pens have a single hen in the pen of ten hens that will make a very high record and the remaining birds in the pen will be below the average? We think it is due to the fact that a poultryman like Barron has given much thought and much time to the question of selection and breeding for egg production. Such breeders have done some trapnesting, some pedigreeing, and they know the kind of males and females that they are breeding from. Such poultrymen have selected and bred from 200-egg males; that is, males bred from hens with 200-egg records, so long that they have fixed the egg-laying characteristics and the egg-laying ability in the entire flock so nearly so that practically all their hens average well and make good

PURE BRED POULTRY

LEGHORNS.

TIP TOP R. C. BEOWN LEGHOENS AND others. Write your wants. J. E. Wright, Route 2, Box 5, Wilmore, Kan.

SINGLE COMB BROWN LEGHORNS— Fifty full-blood cockerels from my best pens, both matings. W. J. Roof, Maize, Kan.

850 SINGLE COMB BROWN LEGHORN hens, pullets and cockerels, 75c to \$2 each. Address E. D. Dooley, Selma, Iowa.

SINGLE COMB BROWN LEGHORNS— Fifty full-blood cockerels from my best pens, either mating. W. J. Roof, Malze, Kan.

THE BEST SINGLE COMB WHITE LEG-horn cockerels we ever raised, \$1.50, \$2 and \$5 each. Dave Baker, Conway Springs, Kan.

SINGLE COMB BUFF LEGHORN COCK-erels, \$1 to \$3. Mrs. Frank Wempe, Frank-fort, Kan.

S. C. BROWN LEGHORN COCKERELS, extra quality, six for \$5. Mrs. L. H. Hast-ings, Thayer, Kan.

FOR SALE—CHOICE R. C. B. LEGHORN, R. C. R. I. Red cockerels, at \$1 each or six for \$5. Mrs. John M. Lewis, Route \$. Box 18, Larned, Kan.

SINGLE COMB WHITE LEGHORN bockerels, White Runner drakes, priced right, satisfaction guaranteed. A. L. Buchenan, Route 3, Lincoln, Kan.

SINGLE COMB WHITE LEGHORNS— Egg-type cockerels, \$3, \$5, \$7.50; grand exhibition males, \$10 up. Free catalog and sales list. W. H. Sanders, Box E275, Edgewater, Colo.

FAMOUS PEARL STRAIN SINGLE COMB White Leghorns.—To make room I am offer-ing one hundred pullets and hens at \$1 apiece; cockerels \$1.50, bred from trap-nested stock. Cockerel free with each dozen females. Order direct. Money's worth. R. W. Bradshaw, Ellsworth, Kan.

RHODE ISLAND REDS.

ROSE COMB RED COCKERELS, \$2.50 each. Satisfaction guaranteed. John Carlisle, Vera, Okla.

LARGE DARK VELVETY R. C. RED cockerels, \$1 to \$5. Bourbon Red turkeys. Charles Sigle, Lucas, Kan.

RHODE ISLAND WHITE—COCKERELS for sale. Prices reasonable. A. N. Peter-son, Waterville, Kan.

FIFTY SINGLE COMB RED COCKER-els, the kind that win. C. E. Florence, El Dorado, Kan.

SELECT ROSE COMB RHODE ISLAND Red cockerels, \$2 each. Julia Baxter, Blair, Neb.

SINGLE COMB RED COCKERELS — Early egg producers. Type, size and color. \$1.50 to \$5.00. Mrs. C. P. Zimmerman, Pleas-ant Hill, Mo.

WALKER'S STANDARD STRAIN S. C. Reds. Why raise mongrels? Get our prices on fine thoroughbred stuff. Walker's Poultry Co., Chillicothe, Mo.

FOR SALE — SINGLE COMB RHODE Island Reds. A nice bunch of early-hatched cockerels and pullets, also cocks and hens. The best blood, priced right, Moore & Moore, 1239 Larimer Ave., Wichita, Kan.

LARGE R. C. RED COCKERELS THAT are red, from \$2 to \$4. Satisfaction guaranteed. Weigh from 5 to 8 pounds. No culls. Also a few show birds at \$5 apiece. E. H. Hartenberger, Route 4, Box 1, Newton, Kan.

ROSE AND SINGLE COMB RHODE Island Reds. Big bones, dark velvety red, trapnested and bred to lay. Sell cockerels cheap, hatched from eggs costing \$20 per setting. Eggs in season at low price. Ava Poultry Yards, Ava, Mo.

ORPINGTONS.

KELLERSTRASS ORPINGTON COCKER-els, \$1.25. Ira Frantz, Skidmore, Mo.

SEVENTY-FIVE WHITE ORPINGTONS, also White Langshans, Buff Rock cockerels. Mrs. Wm. Mumpower, Chillicothe, Mo.

MY BUFF ORPINGTONS GROW FASTER and lay more than others. Big cockerels reasonable. L. S. Weller, Salina, Kan.

WHITE ORPINGTON COCKERELS FROM trap-nested stock, \$1.50, \$2. Mrs. Geo. Coble, Cleveland, Mo.

NICE LARGE WHITE ORPINGTON hens, one and two years old. During December, in lots of three to five, \$2 each. W. G. Langehumig, Jackson, Mo.

BUFF ORPINGTON COCKERELS— Twenty-five good ones at a dollar each for quick sale. Twenty-five cents extra where one only is ordered. Mrs. Lillie Underwood, Oskaloosa, Kan.

LANGSHANS.

scoring 94 to 96. Mrs. D. A. Swank, Blue Mound, Kan.

BIG BLACK LANGSHANS, BRED EX-clusively for ten years. Cockerels, \$1.75. Annie Pearce, Kildare, Okla.

BRAHMAS.

LIGHT BEAHMAS, BETTER THAN ever. A fine lot of cockerels for sale. M. & J. W. Schreiber, Sibley, Iowa.

COCHINS.

BUFF COCHINS—I HAVE A FEW SURplus birds for sale, both old and young, and will sell them much cheaper now than in the spring. Quality the best. My Cochins were never beaten in the show room. J. C. Baughman, Topeka, Kan.

SEND FOR BOOKLET, "PROFITABLE Poultry Selling," issued by Kansas Farmer. Free for the asking to anyone interested in poultry. A post card request will bring the booklet by return mail. Kansas Farmer, Topeka, Kan.

PLYMOUTH ROCKS.

BUFF BOCK COCKERELS FOR SALE.— Mrs. C. H. Barclay, Webber, Kan.

BUFF ROCK COCKERELS, \$2 TO \$5 each. Ferris & Ferris, Effingham, Kan.

BARRED ROCK COCKERELS — CHOICE birds. Florence Belle Ziller, Hiawatha, Kan.

EXTRA GOOD WHITE AND BARRED tocks. Sidney Schmidt, Chilicothe, Mo. BUFF ROCKS, PRIZE WINNERS, FOR sale by C. S. Hart & Sons, Milan, Mo.

CHOICE BUFF ROCK COCKERELS, \$1.50

PURE BARRED ROCK COCKERELS-Fine large early-hatched farm raised. Price, \$1.50 each. Mrs. H. Buchenan, Abilene, Kan.

BARRED ROCK COCKERELS ONE DOL-lar each, two weeks only. E. C. Carter, Bunker Hill, Kan.

WHITE ROCKS, SIZE AND QUALITY.— Healthy, vigorous birds. Satisfaction guar-anteed. Write G. M. Kretz, Clifton, Kan.

WAGNER'S BARRED ROCK COCKER-els, \$1 to \$5 each. Mrs. E. C. Wagner, Holton, Kan.

WHITE ROCK COCKERELS AND PUL-lets, extra large; Fishel strain, \$1.50 each. Mrs. F. S. Manning, Friend, Neb.

CHOICE BUFF ROCKS—COCKERELS and pullets. Extra fine stock. Mrs. William Small, Wilson, Kan.

BUFF ROCKS CHEAP TO MAKE ROOM. Satisfaction guaranteed. Freeman Alden, Ellsworth, Kan.

PURE BARRED BOCKS EXCLUSIVELY. eavy laying strain. Cockerels, \$1.50 each. 7. C. Shaffer, Route 6, Burlington, Kan.

FOR SALE—BUFF ROCKS, PRIZE WIN-ners; choice birds at \$2 each. Mrs. John Ainsworth, Lexington, Mo. WHITE ROCK COCKS AND COCKERELS for sale, \$1.50 and up. Nellie McDowell, Garnett, Kan.

ONE HUNDRED WHITE ROCK COCK-erels and pullets, early and late hatched, from prize winning stock. W. T. Blackwill, Quinter, Kan.

SIXTY BUFF AND WHITE PLYMOUTH Rock cockerels of extra merit for breeding or showing, priced at \$1.50 to \$5 each. A. E. Glass, Harrisonville, Mo.

BUFF ROCK COCKERELS AND PUL-lets, the large growthy prize winning kind. Reasonable prices. Geo. Scherman, Olathe, Kan.

IVORY STRAIN WHITE PLYMOUTH Rocks. Large cockerels from my state fair winners, \$1.50 to \$10. Minnie C. Clark, Rocks. Large winners, \$1. Haven, Kan.

BARRED ROCK ROOSTERS AT \$2.00 each. Extra large, evenly marked and fine colors, Eggs in season, \$1 for sixteen. Mrs. A. E. Irvine, Jetmore, Kan.

BARRED ROCK COCKERELS, PULLET-bred; grand breeding birds; dams score 93; have record 250 eggs in twelve months; won many prizes, largest shows. Shipped on approval. Ike Hudnall, Milan, Mo.

WYANDOTTES

CHOICE WHITE WYANDOTTE COCKerels, \$1 to \$2 each. Mrs. Will Beightel, Holton, Kan.

GOOD HEALTHY COCKERELS AND PUL-lets not related, in Silver Wyandottes. H. L. Brunner, Route 5, Newton, Kan.

PRIZE-WINNING SILVER WYANDOTTE cockerels. Satisfaction guaranteed. H. Clabaugh, St. Edward, Neb.

PARTRIDGE WYANDOTTES — GREAT winning at state fair, five firsts, three seconds, four thirds. Correspondence solicited. E. P. Cressler, Peabody, Kan.

SILVER WYANDOTTES EXCLUSIVELY—Farm raised, Tarbox strain, from prize winning stock. Choice cockereis, \$1.50, \$2, \$2.50, \$3. Mrs. Edwin Shuff, Plevna, Kan.

W HITE WYANDOTTES — MAMMOTH Pekin and Buff Orpington ducks, America's finest stock. Mrs. A. J. Higgins, Route 1, Effingham, Kan.

When writing advertisers, please mention Kansas Farmer.

WHITE WYANDOTTE COCKERELS AND pullets, large pure white classy ones, bred from the richest blood lines in America, at one-half their actual value. Exhibition birds a matter of correspondence. N. Kornhaus,

DUCKS

FISHEL WHITE RUNNERS, FIVE DOL-ars trio. Circular. Wm. S. Jordan, Hastings, Neb.

PEKIN DUCKS — LARGE VIGOROUS first-class stock, \$5 per trio, Also White Wyandotte chickens. M. L. Andrews, Bryant, Mo.

INDIAN RUNNERS, FAWN HEAD AND tail. Ducks, \$1.50; drakes, \$1.25. Mammoth Bronze toms, \$5; hens, \$3. Mrs. E. M. Jones, Granger, Mo.

FOR SALE—SEVERAL WHITE RUNNER drakes, from Mrs. Myers' prize-winning stock, winners of all first premiums at State Poultry Show. Price, \$2.00 each. Thomas Owen, Jr., Route 7, Topeka, Kan.

PEN TEN MAMMOTH WHITE PEKIN ducks, one drake, \$10. Large thoroughbred White Holland tom, \$5. Rose and Single Comb R. I. R. cockerels, \$1. E. Stewart, Box 52, Henderson, Iowa.

POULTRY SUPPLIES

BECKER'S AUTOMATIC BROODER makes chicken raising sure. Does everything the hen can but scratch and cluck. Costs nothing to operate. Write for particulars. Agents wanted. Powell Land & Lumber Co., Rusk, Texas,

records, barring sickness, accident, or improper methods of feeding and hous-ing. While the other fellows have bred more or less promiscously and unknow-ingly. Therefore they only get an oc-casional high hen. A good fancier might see an exceptionally beautiful bird excasional high hen. A good lander higher see an exceptionally beautiful bird exhibited by an amateur, but not knowing whether the bird had a line of good breeding back of him, a good fancier would not give much for such a bird to cross on his flock because the bird's good points might not be fixed by years of breeding, and he might not be able to transmit his good qualities. The same is true in breeding for egg production. In some pens practically every bird gives evidence of years of careful selection and breeding, and another pen has only an occasional good bird, which shows that these good qualities are not so firmly and uniformly fixed in the flock. Mr. Poultryman, know the history and the pedigree of at least a few of your best breeding males. It pays.

In addition to the above facts, our records of this contest and the two previous ones lead us to state the following as being true:

vious ones lead us to state the following as being true:

There is an egg type and a beef type in poultry, just as true as there is a dairy type and a beef type in cattle. We find both of these types in all varieties of poultry. And there is also the intermediate, or dual-purpose type. We are not going to attempt to describe these except to say that our best hens are medium-sized birds, and as a rule are considerably under standard weight. They are late moulters and practically They are late moulters and practically free from the disposition to broodiness. They have thin pelvic bones, rather high tails, rather narrow skulls, not a mascu-line head in appearance; large, bright eyes; large combs; long and broad backs carried much higher than that portion carried much higher than that portion nearest the tail; wide behind with plenty of space between the point of their breast bone and the points of the pelvic bones; and they must be good feeders, always active and alert. The good laying hens are nearly always somewhat close feathered; not loosely feathered like the Cochins. We believe that if a White Leghorn with a record of 250 eggs and a Barred Rock with the same record, were both in good health and condition. and a Barred Rock with the same record, were both in good health and condition, and were both killed and picked at the same time, you would find a great resemblance and uniformity in the shape and measurements of the body and bones of the two fowls. You would have to make due allowance for the extra size of the Plymouth Rock, of course.

These contests have also proven that These contests have also proven that

a reasonable amount of beauty and a reasonable amount of eggs can be combined in the same fowl. The Barred Rock, the White Rock, the Buff Leghorn and a number of the other hens which made the highest records this year, were hens which would not disgrace any show room. The Barred Rock which laid 254 eggs was exceptionally good in color and shape. Just as have some of the fanciers shape. Just as have some of the fanciers utterly disregarded egg production in their matings, just so have some of the egg men utterly disregarded color in their matings. We do not believe it is possible to produce a record-breaking layer and pay too much attention to color, neither can you breed the exceptionally high-scoring specimen and pay too much attention to egg production, but we do believe it is possible to breed whole flocks that can average 150 to 180 eggs and have individuals laying from whole flocks that can average 150 to 180 eggs and have individuals laying from 200 to 250 eggs and still have beautiful color and shape, which is not necessarily standard shape. There seemed to be a disposition at the last A. P. A. meeting at Chicago to gradually change the shape of our varieties until they conform more rearly to the egg type and that is what mearly to the egg type, and that is what we should come to. Also the egg men should strive to improve the color of their flocks, and the standard makers should always bear in mind not to make the color requirements so artificially impossible that a good poultryman could not combine a reasonable amount of beauty in shape and color, and at the same time have a productive flock. We are glad to say that the disposition of the standard makers seems to be in that direction more than ever before.-Missouri Experiment Station Bulletin.

In loading a wagon, place the load evenly over the front and hind wheels. If any difference is made it should be on the hind wheels. They are larger and hence do not sink in as deep as the smaller front wheels. The fact that the load is farther from the team does not improve the defer on the wagon. When increase the draft on the wagon. When the team is hitched to something drag-ging on the ground, then the nearer the team is to the load the lighter the pull. This is due to the fact that the nearer the team is the more the pull will be upward, thus helping to reduce the fric-tion between the load and the ground.



Join World's Champions 18 more championships won by ow City hatching outfits. Makes Belle City

21 Times World's Champion
Free Book 'Hatching
Facts' tells whole story.

Trus Sorb Money-Book thereory Betaking
settl shown in actical soince, Jain Peban, Free
Botto City Incushator Co., Box 18

Racino, We

White Plymouth

Again prove their superiority as egg layers in the National Egg-Laying Contest, one White Rock hen laying 251 eggs; 645 hens competing. I have bred White Rocks exclusively for 20 years and have them as good as anybody. Eggs from three high-scering pens, 22.00 per 15; \$5.00 per 45, delivered free by parcel post or express. Safe delivery guaranteed. A limited number of eggs from a specially fine mated pen, \$5.00 per 15. You will get what you order, or money refunded.

THOMAS OWEN.

Station B.

Topeka, Kansas.

PURE BRED POULTRY

TURKEYS

TWO MAMMOTH BRONZE TOMS, \$5 ach. Lawrence Tiff, Haddam, Kan.

WHITE HOLLAND TURKEYS—TOMS \$3, hens \$2. Mrs. Ed Dorr, Mahaska, Kan.

WHITE HOLLAND TURKEYS, FAWN White Runners. Zelia Sewart, Hollis, Kan.

BOURBON RED TURKEYS FOR SALE, none better, by C. S. Hart & Sons, Milan, Mo. TWENTY - POUND WHITE HOLLAND turkeys—Toms, \$5. Jessie Crites, Florence, Kan.

PURE MAMMOTH WHITE HOLLAND turkeys from prize winning stock. S. A. Warren, Reger, Mo.

NARRAGANSETT TURKEYS—BREEDING stock unrelated. Sarver's Poultry Farm, Mt. Moriah, Mo.

FOR SALE—BRONZE TOMS FROM 40-bound tom, \$4.50 each. Fishel White Rock tockerels, \$1.25. W. L. Bell, Funk, Neb.

PURE-BRED M. B. TURKEYS—LARGE bone, vigorous and healthy. Also Indian Runner drakes. Sadie Litton, Peabody, Kan.

WHITE HOLLAND TOMS, \$4; WHITE dian Runners, \$2 each, trio \$5. Mrs. E. Dillehay, Agenda, Kan.

BOURBON RED TURKEYS, EARLY-hatched, large bone, good color. Toms, \$4; hens, \$3. A. M. Farmer, Pratt, Kan. OAK HILL FARM—HOME OF THE PURE-bred M. B. Turkeys. High scoring stock a specialty. Route 3, Lawson, Mo.

BOURBON RED TURKEYS, PURE-bred: heavy-boned lusty young toms, nicely marked. Also few good hens. Maple Heights Farm, Route 5, Box 20, Marysville, Kan.

BOURBON RED TURKEYS—BIG, DARK red and correctly marked. Show winners for years. Toms, \$4.50; hens, \$3.50 each. Mrs. Clyde Meyers, Fredonia, Kan.

THOROUGHBRED BOURBON TURKEYS

-Choice early birds. Also Buff Rock cockerels. Prices reasonable. Mrs. Amos Andsley, Miami, Mo.

FOR SALE—HIGH-GRADE BOURBON Red Turkeys; hens and toms. Also high-grade Rhode Island Red cockerels and pul-lets. Write for full particulars. Mrs. Pearl Kern, Springville, Ind.

BRONZE TURKEY TOMS — FIRST SIX letters received containing five and a half dollars gets a ten dollar turkey. Hurry. Late orders returned. Jesse McMahon, Blackwater, Mo.

300 CHAMPION 'BRONZE TURKEYS, sired by sons of my 52-pound champion tom. Large size, fine white edging. Have pleased customers in 25 states. Shipped on approval. Ike Hodnall, Milan, Mo.

BLUE RIBBON GIANT BOURBON RED Turkeys, toms \$5, hens \$3. Old tom weighs forty pounds. Single Comb White Leghorn cockerels, Frantz Yesterlaid strain, \$1 and \$2. Flora Smith, Amorita, Okla.

SEVERAL BREEDS.

ORPINGTONS — PRICE LIST FREE. Single Comb Buff Orpingtons, Toulouse Geese, Indian Runner Ducks. Peter Breim, Harvard, Neb.

TURKEYS, GEESE, DUCKS, GUINEAS, chickens. Leading breeds. Good stock. Reasonable prices. Emma Ahlstedt, Roxbury, Kan.

PURE-BRED COCKERELS, S. C. WHITE nd Brown Leghorns, Red Caps, Silver Span-iled Hamburgs and Partridge Wyandottes, 1 each. Thomas Ohlsen, Whiting, Kan.

ANCONAS.

ANCONA COCKERELS FOR SALE, 75 cents each. John Smutny, Irving, Kan.

ANDALUSIANS.

BLUE ANDALUSIAN COCKERELS, \$1.00 to \$2.00 each. J. J. Getz, Atlanta, Kan.

DUROC JERSEYS

TATARRAX HERD **DUROCS**

Two hundred spring gilts, in lots to suit customer, from one to a carload. Also choice boars. Entire spring crop immunized. Pigs by Tatarrax, G. M.'s Tat Col. and Kansas Col. by Cherry Col. and Tippy Col. Come and see our herd.

BUSKIRK & NEWTON, Newton, Kansas.

WONDER HEADS MY

Col. Wonder, his daughter, Sire, Grandsire and Great Grandsire were Grand Champion winners at Iowa, Nebraska and Missouri State Fairs. No other boar can boast of as many champions backing him. When you buy from my herd you get the best blood. The best lot of boars I ever raised. Special prices to move them. Write or come. CHAS. L. TAYLOR, R. R. 1, Olean, Mo.

Durocs of Size and Quality

Immuned boars, bred glits, from large pro-lific stock. B. & C.'s Col., Superba, De-fender, Perfect Col., Good E Nuff Again King and Ohio Chief blood lines. Descrip tion guaranteed. REED, LYONS, KAN.

CHOICE SPRING BOARS

Prices low-\$15 and \$25. Quality high, ired by Enoch's Choice, dams by Chief Model. ENOCH LUNDGREN, OSAGE CITY, KAN.

IMMUNE DUROC JERSEYS

Twenty-five head immune boars of April farrow. Best of breeding. Good length and plenty of bone. Write for prices.
N. D. SIMPSON, Bellaire, Kansas.

Legal Tender Immune Durocs

Boars, 75 to over 200 pounds; fall year-lings, spring glits bred. All immune. Sales made in seventeen states. Write your wants. J. E. WELLER, FAUCETT, MO.

BON ACORD DUROCS
BRED SOW SALE JANUARY 22, 1915.
Fall yearlings and spring glits. Write for catalog. Only a few spring boars left, but they are good ones.
LOUIS KOENIG, SOLOMON, KANSAS.

GOOD ENUFF AGAIN KING
The Grand Champion of Kansas, 1913.
Crimson Wonder 4th, a second prize boar.
We have a number of herd boars for sale
reasonably.
W. W. OTEY & SON, Winfield, Kansas.

FANCY DUROC BOARS AND GILTS.
Fall. boars by Smith's Graudate by J.
R.'s Col. by Graduate Col., out of best sows.
Choice lot of gilts by J. R.'s Col. bred for
June litters to Gold Medal. Priced for
quick sale. J. R. SMITH, Newton, Kansas.

Twenty-two fell and spring boars by Country Gentleman 132541, Golden Model 4th 161011, and other good boars. Good individuals. Bast breeding, immunized and priced right. Call or write today.

W. R. HUSTON, Americus, Kansas.

HILLCREST FARM DUROCS

A lot of boars ready for service. Price, \$20 and \$25. First order gets choice. All immunized. E. N. FARNHAM, HOPE, KANSAS.

AUCTIONEERS.

C. E. Robbins
Live Stock and Farm Sale Auctioneer.
Made sales last year in Missouri, Iowa, Kansas, Oklahoma, Illinois, aggregating over \$700,000 worth of live stock. Write for sale date.
BUTLER, MISSOURI.

LAFE BURGER LIVE STOCK AND REAL ESTATE

AUCTIONEER Kansas Wellington - -

FRANK J. ZAUN

Stock Auctioneer. Independence, Mo.
"Get Zaun. He Knows How."
Bell Phone 675 Ind.

C. F. Beard Live Stock Auctioneer. Prices reasonable. Parsons, Kansas.

R. L. HARRIMAN Live Stock Auctioneer. Write for dates, terms, etc. Address, Bunceton. Missouri.

J. A. MORINE, GENERAL AUCTIONEER.
Pure-bred Live Stock a Specialty,
Box 155. Lindsborg, Kansas.

Col. Jesse Howell Live. Stock Auctioneer. Write or wire for terms. Herkimer, Kansas.

W. C. CURPHEY Pure-Bred Stock and Big Farm Sales. Saling, Kansas.

Frazier's Polands Please.

E. D. Frazier, of Drexel, Mo., has been able to please the most discriminating customer in his mail order shipments of Poland China breeding stock. He still has a few choice spring boars and to close them out quickly is offering them at bargain prices. He has a fine lot of fall pigs by his great breeding boars, Frazier's A Wonder and Expansion Hadley. Mr. Frazier lost this famous son of A Wonder last summer, but not until he had a lot of big, prolific sows bred to him for fall litters. He is offering a hundred big growthy tops from the fall pigs and, considering the quality and size of these pigs, his prices cannot be beaten. He can supply pairs and trios not related at \$30 for pair and \$50 for trio. Mr. Frazier will put up at public sale on February 10, 1915, one of the best offerings of big tried brood sows that will be made this season. He solicits correspondence and will furnish the most complete particulars regarding the stock he offers. Write him, mentioning Kansas Farmer.

FIELD NOTES

G. C. WHEELER Manager Live Stock Department.

PURE BRED STOCK SALES.

Percheron Horses.

an. 13—Improved Stock Breeders' Consignment sale of Registered Percherons, Fair Grounds, Topeka, Kan. H. W. McAfee,

Manager. Jan. 28—Spohr & Spohr, Wichita, Kan.

Feb. 25—Miami County Breeders' Associa-

Percherons and Other Draft Horses.

Jan. 26, 27, 28, 29—C. W. Hurt, Arrowsmith, Ill.

Jacks and Jennets.
March 8, 1915—G. C. Roan, La Plata, Mo.

Angus Cattle.

Jan. 21, 1915—Consignment sale, Manhattan,
Kan. L. R. Brady, Manager.

Sherthorns.

Jan. 15, 1915—Consignment sale, Manhattan,
Kan. L. R. Brady, Manager.

Poland Chinas.

Jan. 21—J. R. Cline, Iola, Kan.
Jan. 20—Roy Johnston, South Mound, Kan.
Feb. 9—I. E. Knox, South Haven, Kan.
Feb. 10—Agricultural College, Manhattan,
Kan.

Kan.
Feb. 10—E. D. Frazier, Drexel, Mo.
Feb. 10—ira L. Kyle, Mankato, Kan.
Feb. 11—John Kemmerer. Mankato, Kan.
Feb. 18—J. D. Mahan, Whiting, Kan.
Feb. 19—W. A. Baker & Son, Butler, Mo.

Spotted Polands. Feb. 10—H. L. Faulkner, Jamesport, Mo.

Jan. 22—Louis Koenig, Solomon, Kan.
Jan. 23—N. B. Price, Mankato, Kan.
Feb. 8, 1915—J. A. Porterfield, Jamesport,
Mo.
Feb. 9—Agricultural College, Manhattan,
Kan.
Feb. 12—Howell Bros., Herkimer, Kan.
Feb. 18—Buskirk & Newton, Newton, Kan.
Feb. 23—J. R. Jackson, Kanapolis, Kan.
March 11—W. W. Otey & Sons, Winfield,
Kan.
March 12—G. C. Normen, Winfield,

March 12-G. C. Norman, Winfield, Kan.

Jan. 20-William Bartlett. Pierce, Neb.

C. E. Bean, of Garnett, Kan., is offering a high-class lot of Holsteins, including yearlings and two-year-old heifers and aged cows, none over eight years old. His offering of registered Holsteins is a good one and Holstein breeders and dairymen who are on the market for good Holsteins should get in touch with Mr. Bean at once, as he is making prices that will sell his offering in a hurry. Write him for descriptions and prices, mentioning Kansas Farmer.

Don't overlook Clyde Girod's Holstein-Friesian farm at Towanda, Kan., if you are on the market for Holsteins. Mr. Girod always has stock for sale, either registered or high grade. He is now offering stock of all ages, from calves up, either sex. Look up his card in Kansas Farmer and write him for prices and descriptions.

Attention is called to the change in the card of Joseph Baxter, of Clay Center, Kan. Mr. Baxter offers a six-months-old Shorthorn bull and a yearling Polled Durham bull. Both of these bulls are good ones. He also has a number of younger ones for sale, and a few cows and heifers. He recently sold a very fine Polled Durham bull to Henry Kohrs, a prominent breeder of to Doctor McCulloch. It will pay to get his prices before buying.

G. Regier & Son, of Whitewater, Kan., are offering a number of very high class registered Holstein cows that are fresh. They also have a choice lot of bred helfers and some young buils ready for service. The head of their herd is a grandson of the world's record cow from 1904 to 1907, Aggle Cornucopia Pauline, 34.32 pounds butter in seven days. This offering will interest breaders wanting high-class Holsteins at reasonable prices.

J. C. Robison Has Good Sale.

The twentieth annual sale of imported and American-bred Percheron stallions and mares held by J. C. Robison, of Towanda, Kan., December 17. was very satisfactory. The eighteen stallions sold averaged \$655 per head and twenty-four mares averaged \$440 per head. The total of the sale for forty-two head was \$22,375, an average of \$532. The top of the sale was a three-year-old son of Casino, which was bought by John Strother, of Alva, Okla., for \$1,450. Kapitole, the champion mare of the 1914 state fairs, went to W. S. Bowles & Son, of Enid, Okla., at \$800.

Hineman Offers Jacks by Champion.

The firm of Hineman & Son, of Dighton, Kan., has established an enviable reputation in the jack and jennet business. On their ranch in Lanc County are found ideal conditions for growing and developing jacks and jennets of the size and quality now demanded. The best of foundation stock has been secured and with the careful thought put into the proper mating of this stock, jacks and jennets from this ranch always give satisfaction. They own the champion Pharaoh, which jack has never been defeated in the show ring. Some young jacks by this famous sire are now offered. They possess the size and quality which have made Pharaoh famous. Those wanting to secure a high-class jack should by all means correspond with this firm. Kindly mention Kansas Farmer when writing.

Good Proposition for Poland Breeders.

The proposition offered by J. R. Whightsil, of Sandy Creek Farm, Wheeler, Ill., will interest anyone wanting big-type Polands of the best and most fashionable breeding. The herd boars in use in this herd are from the herds of John Miller, M. P. Hancher and Henry Door, three of the noted big-type herds. These boars are high in quality and they are all in the 1,000-pound class. His herd of big-type sows carries the blood of the Mouw and Miller herds. They are a select lot of big easy-feeding prolific sows and as a herd are second to none in the country. Breeding stock from this herd is fed and developed in a way that practically insures that they will make good as breeders. Mr. Whightsil guarantees that every animal shipped will be exactly as represented or no sale. Breeders wanting herd

JERSEY CATTLE

JERSEY CATTLE.

JONES' JERSEYS

Splendid young cows safe in calf. Backed by records; every cow in herd on test. Chief bull in service, Financial Countess Lad. Second herd bull, son of Magnate's Interest. Dams of our three herd bulls average 861 pounds butter in one year. Some of these young cows in calf to such bulls will start you right. Also have a few young bulls at attractive prices.

Our chief herd buil is one of the great bulls of the breed, bringing \$2,500 at 90 days of age and \$5,000 as a two-year-old; was grand champion at Waterioo, Iowa, in 1912. His dam, Financial Countess, was 1908 butter champion with record of 13,248 pounds milk and 935 pounds 10 ounces butter. Magnate's Interest's 12-year-old record was 14,885 pounds milk and 875 pounds butter. Our motto is "Constitution first, production second, beauty third." Write us your wants.

J. E. JONES WESTVIEW JERSEY FARM, Nowata, Okla.

SUNSET JERSEYS

The \$5,000.00 Blue Belle's Golden Roseboy, 85230, heads the herd. His sons and daughters, all ages, for sale. Beauty and production—Jerseys that please. Write your wants. Send for circular giving description of herd, production, breeding, etc.

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

NEW LELAND JERSEYS

Young bulls bred for utility and beauty. Priced to sell.

NEW LELAND FARM, Storden, Minn. BUTTER-BRED JERSEYS

Springing heifers, granddaughters of Noble of Oaklands, and his half brother. All registered. A dozen young bulls. Part time to reliable parties. Write your wants or come.

J. S. TAYLOB, IOLA, KANSAS.

A FEW CHOICE SONS AND DAUGHTERS OF FINANCIAL COUNTESS LAD OF FINANCIAL COUNTESS LAD and other noted bulls; young cows will milk FORTY to SIXTY POUNDS per day, out of richly bred large producing dams. Priced reasonably. Must reduce herd.
W. N. BANKS, Independence, Kassas.

LINSCOTT JERSEYS — PREMIER ERGISTER OF MERIT HERD.

Established 1878.

Bulls of Register of Merit, imported prize winning stock. Also cows and heifers.

R. J. LINSCOTT - - - HOLTON, KANSAS.

TWO JANUARY BULL CALVES, Out of high producing dams; Flying Fox and Golden Fern's Lad breeding; for sale at try low prices.

and Golden Ferne very low prices.
D. A. KRAMER, Washington, Kan.

REGISTERED JERSEYS.

Butter-bred buil calves from heavy producing cows, priced right.

MAXWELL JERSEY DAIRY, Topeks, Kan.

BREEDERS' DIRECTORY The following classified list contains the names of many of the reliable breeders of pure live stock. They will be stock DEPARTMENT, KANSAS FARMER, for further information.

ANGUS CATTLE.

Best Mollysine, Lebanon, Mo.

ANGUS CATTLE.
Bert Mclivaine, Lebanon, Mo.

AYRSHIRE CATTLE. Loveland Farm Co., Omaha, Neb.

HEREFORD CATTLE. H. V. Baldeck, Wellington, Kan.

HOLSTEIN CATTLE.
T. M. Ewing, Independence, Kan.
C. E. Bean, Garnett, Kan.
S. E. Ross, Routé 4, Creston. Iowa.

JERSEY CATTLE.
W. F. Holcomb, Clay Center, Neb.
C. J. Morek, Storden, Minn.
Hunkydory Jersey Farm, Fairfield, Iowa.
Hai C. Young, Lincoln, Neb.
J. B. Porter & Son, Mayetta, Kan.

POLLED DURHAM CATTLE.
J. H. Walker, Lathrop, Mo.
H. F. Gledinghogen, Useful, Mo.

N. H. Gentry, Sedalia, Mo.

SHORTHORNS.
G. A. Laude & Sons, Rose, Kar
C. H. White, Burlington, Kan.

E. C. Holland & Son, Milton, Iowa.

D. O. Bancroft, Osborne, Kan. Judah Bros., Hiattville, Kan. HAMPSHIRE HOGS. H. D. DeKalb, DeKalb, Iowa.

Fred Wille, Columbus, Neb.

POLAND CHINA HOGS.
P. M. Anderson, Lathrop, Mo.
Henry Koch, Edina, Mo.
W. A. Prewett, Asherville, Kan.
Austin Smith, White City, Kan.

SHROPSHIRE SHEEP.
Locust Lawn Farm, Oakland, Ill.

BERKSHIRE HOGS

LARGE ENGLISH BERKSHIRES

Two outstanding fall boars ready for service, \$40 and \$50 each. Twenty spring boars, \$25 to \$40 each. Fifty sows and gilts bred for spring litters, \$35 to \$75. For full in-

H. E. CONROY, Nortonville, Kansas.

MULE FOOT HOGS

BRED MULE FOOT HOGS Solid blacks, \$50. Bred to Cherry Sultan by Old Cherry King. A few choice June pigs, \$20, three for \$50. SULTAN STOCK FARM, Route 7

improvers should look up his card and write him for description and prices. His offer-ing is priced to sell. Please mention Kansas Farmer when writing.

Farmer when writing.

Banbury's Champion Polands.

The attention of Poland China breeders is called to the card of J. C. Banbury & Sons, of Pratt, Kan. This firm owns the famous Banbury pure-bred stock farm noted for its fine herds of Polled Durham cattle and Poland China hogs and its fine flocks of Rose Comb Rhode Island Red, Partridge Rock and White Wyandotte chickens. No stronger advocates of pure-bred stock for the farm can be found in Kansas than the members of this firm, and their herds and flocks carry the best blood lines of their respective breeds. Their offering at this time will interest Poland China breeders. Their herd is made up of representatives tracing to world's champions. Look up their card and write them, mentioning Kansas Farmer.

Farmer.

Garrison Sale Later.

Mr. Garrison writes us that the principal reason for postponing his sale, which was advertised to be held at Summerfield, Kan., December 17, was that the cattle were not getting into proper condition as rapidly as he had hoped, and he felt that all would be better pleased to come at a later date when the offering would show to better advantage. The cattle will all be sold, so the catalogs sent out should be preserved by those interested. In about six weeks from the date originally set Mr. Garrison expects to hold this sale. The exact date will be given as soon as it can be decided upon. Meanwhile anyone interested in good useful Shorthorn cattle should write Mr. Garrison for a copy of the catalog and watch for the date of the sale. Kindly mention Kansas Farmer when writing. Farmer when writing.

When writing to advertisers, please mention Kansas Farmer.

SHORTHORN CATTLE

4

SHORTHORN HERD BULL

Good News, grandson of Choice Goods. Can use him no longer. This bull is a great bargain.

Also three young bulls one to two years old. Prices reasonable. Come and see me. JOHN REGIER, WHITEWATER, KANS.

HIGH-CLASS

Five bulls, 10 to 13 months old; five young cows close to calving; five young heifers. These cattle are all of good quality, in good condition, and are a clean, healthy, useful lot of cattle. Priced to sell quick.

C. H. WHITE, BURLINGTON. KANSAS.

CEDAR LAWN SHORTHORNS

They are going fast. Only four year-ling bulls left, also four calves. Four of them pure Scotch. Can spare three good S. B. AMCOATS, CLAY CENTER, KAN.

SHORTHORN BULLS

Two real herd bulls—one red, one white. Cumberland's Last, a Cruickshank Victoria, and Prince Valentine 4th by Gallant Knight. Also some bull calves at weaning.

DR. W. C. HARKEY, LENEXA, KAN.

SHORTHORN SHOW BULL

Roan Major, a five-year-old, low set, wide and smooth and full of quality. Price, \$250. Coung bulls, \$100 to \$125. JEWELL BROS., HUMBOLDT, KANSAS.

Shorthorn Bulls & Heifers

Brawith Heir, a Brawith Bud by Gallant Knight's Heir, heads herd. Choice young stock priced to sell. Inspection and correspondence invited.

E. E. "EACOCK & SON, Hartford, Kansas.

CEDARWYLDE POLLED DURHAMS AND SHORTHORNS.
One six-months old Shorthorn bull, one yearling Polled Durham bull. Both good ones. Some younger ones and good cows and helfers. Priced right, JOSEPH BAXTER, Clay Center, Kansas.

When writing to advertisers, please mention Kansas Farmer.

HORSES AND MULES

BRILLIANT blood, jet blacks, rich greys. Registered Percheron studs, 1, 2, 3 and 4 years old. I grow great big fellows with big bone and heavy quarters—I love a good horse. Visit my Percheron farm. I have the goods, and lots of them. Don't let anyone tell you they have Percherons like Fred Chandler's. Just above Kansas City.

FRED CHANDLER, ROUTE 7, CHARITON, IOWA.



SHETLAND PONIES HERD BEING DISPERSED

Thirty head, not a cull in the lot, all ages, sizes and colors, mostly mares. Our farm is sold and ponies must go by February 1. For fifteen years we have bred ponies. Write

J. C. THOMPSON, JAMAICA, IOWA.

FAIRVIEW STOCK FARM



JACKS AND JENNETS



For quick sale, fifteen large mature jacks, all large bone, good colors, 14% to 16 hands standard, guaranteed and priced to sell. I have a large herd of jennets and will price a few reasonably. Come and see me if you mean business. Phil. WALKER, Moline, Elk County, Kan.

FIFTY JACKS FIFTY



Large black mammoth jacks, 15 to 16 hands standard. Guaranteed and priced to sell. Also good young Percheron stallions. Reference, any bank in Lawrence. Forty miles west of Kansas City, on Santa Fe and Union Pacific Rallroads.

AL. E. SMITH, LAWRENCE, KANSAS.

A. Latimer Wilson, Creston, Iowa. Home-bred draft stallions \$250 to \$650. Imported stallions cheaper than anywhere else. Come and see.

HOLSTEIN CATTLE

HORSES AND MULES.

I have just received a new shipment of twenty stallions, and now offer

80 -- HEAD -- 80 STALLIONS - MARES FILLIES and COLTS

Write for prices.

C. W. LAMER Kansas Salina

FROM THE BREEDERS



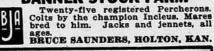
Registered and mares, also standard-bred stallions and mares. Thirty-five head to select from. Prices reas-

onable.
E. P. HAMILTON & SONS,
Garden Grove, Iowa.

REGISTERED PERCHERONS

Choice stallions, one to four years old, blacks; also a few choice mares, to sell cheap. J. T. SCHWALM, Baldwin, Kansas.

BANNER STOCK FARM



HOLSTEIN CATTLE.

26 Head - Registered Holstein Cows - 26 Head

All have A. R. O. records; A. R. O. dams or grand-dams. Two years old and up.

Nearly all freshen in next three months. All bred to grandson of Pontiac Korndyke. Will
sell one to fifteen of these, buyer to have the pick of the herd, \$150 to \$600. Four-year-old
herd bull for sale cheap, a grandson of Pontiac Korndyke; gentle, sound, sure breeder,
seven-eighths white. Have thirty of his daughters to breed and must change bulls. All
these will be given an A. R. O. test when they freshen. On bull will consider a trade for
span of young draft mares or registered-Holstein helfers or helfer calves. Also have three
young bulls five and six months, nothing older, A. R. O. dams or granddams.

S. W. COOKE & SON, MAYSVILLE, DE KALB COUNTY, MISSOURI.



Purebred Registered

HOLSTEIN CATTLE

With thirty common cows, each giving 3,000 pounds of milk per year, introduce a pure-bred registered Holstein bull. In two years, you'll be milking grade Holsteins yielding 4,000 to 5,000 pounds. In five years, you'll have 6,000-pound cows and will need to keep only fifteen cows to get the same amount of milk. In ten years, you'll have 8,000 to 9,000-pound cows and a ten-cow herd will produce as much milk as your thirty cows do now. Quite a saving in labor, feed, and equipment, to say nothing of the increased value of your cows and calves. Send for FREE Illustrated Descriptive Booklets.

The Holstein-Friesian Ass'n of America, Box 114, Brattleboro, Vt.

SATISFACTION GUARANTEED

HIGH-CLASS REGISTERED POLANDS.
Some show prospects, \$15 and up. Weight,
100 to 600 pounds. Blood of state and national winners Visitors met at depot.

PANBURY'S HORNLESS SHORTHORN
AND POLAND CHINA FARM
Route 1, Phone 1602. Pratt, Kansas.

M. E. MOORE & CO.

CAMERON, MISSOURI.

BULL CALVES FROM A. R. O. COWS.
Sired by Sir Kornryke Imperial 53683.
Calves suitable for heading registered herds.

Butter Bred Holsteins

For Sale—Cows and heifers; heavy springers. Prices very reasonable. Write today. These bargains will not last long.

J. P. MAST, SCRANTON, KAN.

Golden Belt Holstein Herd

Prince Hadria at head of herd. He has 26 A. R. O. sisters, 21 brothers and several daughters. Extra choice young bulls for sale out of 600-pound A. R. O. dams. Farm near town. W. E. Bentley, Manhattan, Kan.

Choice HOLSTEIN Cows

Well-bred cows, two-year-old helfers and choice helfer calves, all good colors. 25 choice hetter Prices reasonable. GEO. F. DERBY, Lawrence, Kansas.

HOLSTEIN FRIESIAN FARM

ALWAYS HAS HOLSTEINS FOR SALE From calves up. Registered or high grade. Write your wants. CLYDE GIROD, TOWANDA, KANSAS.

Holstein-Friesian Bulls. — Very attractive prices for next four weeks on a two-year-old herd bull and several other registered bull calves that are younger, one a son of a 90-pound cow, his granddam a 101-pound cow.

Higginbotham Bros., Rossville, Kansas.

HOME FARM HOLSTEINS.

Nicely bred bulls, serviceable age. Write
r pedigrees and prices, stating age and
reeding wanted. W. B. BARNEY & SONS, CHAPIN, IOWA.

CHOICE YOUNG HOLSTEIN BULLS
Backed by Records. Priced to Sell.
JOHN RENSINE, Boyden, Iowa.

HOLSTEIN BULL CALVES
Always on hand, and worth the price.
H. B. COWLES, Topeka, Kansas.

HOLSTEIN HERD BULLS MY GREAT HERD BULL

Sir Woodcrest Mechthilde Lad 71539, fine breeder, gentle disposition, calves have been 75 per cent helfers, cannot use him longer. Also choice buil calf sired by this buil, dam Lady Abbekerk Mechthilde 161139, produced 15 pounds butter fat on grass without grain. Priced to sell.

J. N. GEORGE, HOPKINS, MO.

The DELLS STOCK FARM

Holstein Cows—Sixty-three head to select from; yearlings, two-year-olds and cows, none over eight years. Write or come and C. E. BEAN, GARNETT, KANSAS.

CHENANGO VALLEY HOLSTEINS.

For quick sale, 100 head high-grade nicely marked cows and heifers, due to freshen in September and October; also fifty fancy marked yearlings, all tuberculin tested.

Prices reasonable. Prices reasonable. F. J. Howard, Bouckville, Madison Co., N. Y.

EDGEWOOD HOLSTEINS—Ten heifers 4 of wks. old, 15-16ths pure, \$20 each crated or shipment. One registered yearling bull, 100. Edgewood Farm, Whitewater, Wis.

FRESH HOLSTEIN COWS—Bred heifers, young bulls. Herd bull grandson world's record cow 1904-7, 34.32 lbs. butter 7 days. G. REGIER & SONS, WHITEWATER, KAN.

RED POLLED CATTLE

COBURN HERD RED POLLED CATTLE
AND PERCHERON HORSES
Twelve extra good young bulls. Some extra fine young stallions, among them first prize and champion of Topeka Fair. Also young cows and helfers.
GROENMILLER & SON, Pomona, Kansas.

RED POLLED CATTLE

PLEASANT VIEW STOCK FARM.
Polled cattle. Choice young bulls

OHIO IMPROVED CHESTERS

SUNNYSIDE HERD O. I. C's

Eighty boars and gilts of spring farrow, ready for service, sired by Bode's Model No. 31295, Gage's Pride No. 38933. Best of breeding and priced right. Large-boned prokind. W. H. LYNCH, Reading, Kansas.

HEREFORD CATTLE

PLEASANT VIEW STOCK FARM HEREFORD CATTLE. A few choice young helfers. Also registered Percherons and Duroc Jersey hogs. In-

M. E. GIDEON, EMMETT, KANSAS.

AYRSHIRE CATTLE.

FERNDALE AYRSHIRES.—Choice young took, both sexes. Willowmoor Robinhood 29th heads herd. Prices reasonable.

HERMAN CHRISTENSEN, Milltown, Wis.

Helstein Herd Bulls.

Anyone wanting a Holstein herd built hat is good enough to head any herd should get in touch with J. N. George, of Hopkins, Mo. He is offering his great herd buil. Sir Woodcrest Mechthilde Lad 71539, for sale. This buil is bred right. He is a fine individual, one of the best breders now in service, of gentle disposition, and 75 per cent of his calves have been helfers. He is only four years old and, as Mr. George cannot use him longer he will be sold worth the money. He is also offering a choice buil calf sired by this buil and out of Lady Abbekerk Mechthilde 161139 with a record of fifteen pounds butter fat on grass without special care. This calf is a fine individual and was first and champion at the Nodaway County Fair in a strong show. Mr. George is pricing these buils to sell quick. The granddam of his new herd header recently purchased has a seven-day record of 35.38 pounds, and his twenty-six nearest dams have records of 32 pounds or better. Write at once for prices and descriptions. Please mention Kansas Farmer.

mention Kansas Farmer.

Heacock Son's Shorthorns.

Shorthorn breeders should investigate the offering of E. E. Heacock & Son, of Hartford, Kan. They are offering a nice lot of young buils and helfers that have been bred and developed to make good. For years they have systematically selected breeding stock with one purpose in view, and that was to build up a herd of Shorthorn cows of the dideal type that can always be depended upon as a paying proposition. As a result of years of careful selection they now have a choice herd of over forty head of Young Marys, Rose of Sharons, Rubys, Red Roses, White Roses, Brittania's Victorias and Pomonas, all regular breeders and profit producers. The young buils now offered for sale are a uniformly good lot. Among them is a twenty-months-old buil that has been used in the herd. He is one of the low-sprung rib, good head and horn, and has proved a sure breeder. Also a fine sixteenmonths-old calf of larger type, five buils ranging in age from eight to twelve months, five buil calves and a number of good heifers. Write for prices and descriptions, mentioning Kansas Farmer.

"WAS A SURE GETTER"

Blackwater, Mo., Dec. 13, 1914. Kansas Farmer, Topeka, Kan.

Sirs—Enclosed find check for \$4.40, amount due for my ad for turkeys. It was sure a "getter." Orders poured in and I have added about 100 satisfied customers to my list, and booked some egg orders. Respectfully.

MRS. JESSE T. McMAHON.

..... When writing advertisers, please mention Kansas Farmer.

Double Standard Polled Durham Cattle.

We wish to call our readers' attention to the ad of C. J. Woods, of Chiles, Kan., one of the oldest breeders of Double Standard Polled Durham cattle in the West. Mr. Woods has spent all his life with this breed, having grown up on a farm at Gardner, Ill., where his father owned one of the good herds of this breed. Mr. Woods has owned a number of valuable sires. Roan Hero, the grand champion, was used for a number of years in the herd, and from him he got a fine string of heifers and also Roan Cholce, now used at the head of the herd. Mr. Woods also purchased from the Kansas Agricultural College at Manhattan a fine young bull. Matchless Avon, by Matchless Dale, by the great Avon Dale. Mr. Woods has a number of good bulls for sale, one being a two-year-old road bull by Roan Hero. His dam was a daughter of the show bull, Gallant Knight, and his second dam was a daughter of Imp, Thistle Top. He also offers a few choice cows and heifers. If interested in this bread of cattle you can make no mistake in buying from the kansas Farmer.

Marsh Creek Durocs.

R. P. Wells, proprietor of the Marsh Creek herd at Formoso. Kan.. has decided to sell his bred sows this winter at private treaty. His offering is a good one and he is going to sell them so any farmer wanting good breeding stock can use them. They will be sold less sale expense, Mr. Wells writes, and no man buying will have to bid against another man's judgment. The fall yearlings are all by Buddy O. K. whose sire was Buddy. K. 4th by Wide Awake. The gilts are by Crimson Defender, Model Hero, R. & S.' Crimson Wonder, and Royal Climax. The offering will be bred to Crimson Defender except the gilts by this sire. These will be bred to Model A by Model Hero, by Golden Model. This young boar is a fancy pig having a finely arched back, full deep ham, deep smooth body, straight legs and the best of feet. Mr. Wells has selected this boar for this cross, feeling that the result is certain to produce some high-class Duroc pigs. The older boar, Crimson Defender, is of the large meaty type, with heavy bone, of good length, full and heavy in the ham and with fancy head and ear. Mr. Wells is preparing a circular giving the history of his herd and other important information for those in the market for good Durocs. Write him for this circular and kindly mention Kansas Farmer.

Volume 23, Angus Herd Book.

troductory pages of Volume 23 of the American Aberdeen Angus Herd Book, furnish considerable light on the increased interest being taken throughout the county in well-bred beef cattle. The southern states have taken large numbers of pure-bred Angus cattle. Excluding the states of Iowa, Illinois and Missouri, Mississippi during the past year has purchased more Angus cattle than any other state. Montana has also been a heavy buyer of Angus cattle.

The first forty or fifty pages of this volume contain a great deal of information of value to not only the breeder of Angus cattle, but to anyone interested in the development of the beef cattle industry. The volume contains 12,000 pedigrees. The price to non-members is \$3, members paying \$1. The secretary of the association is Charles Gray, of Chicago, Ill., to whom all orders for the book should be sent.

GUERNSEY CATTLE



BUY GUERNSEYS FOR PROFIT

Your investment in GUERNSEYS will return a larger profit than that from any other dairy breed. Write for literature.

GUERNSEY CATTLE CLUB

PETERBORO, N. H.

POLLED DURHAM CATTLE

POLLED DURHAMS FOR SALE Herd headed by Roan Avon. Young stock, both sexes, for sale. Prices reasonable. Come and see my herd. C. J. WOODS, CHILES, KANSAS,

POLLED DURHAMS AND SHORTHORNS

PRIVATE SALE TO DISSOLVE PARTNER—SHIP.

Entire herd, double standard Polled Durhams and Shorthorns. Cows with calves and young heifers. Also double standard herd bull Sir William. Priced to sell. Come or write. COLTHAR & STEIN, Smith Center, Kansse.

GALLOWAY CATTLE

CAPITAL VIEW GALLOWAYS

Bulls from 6 months to 2 years; also a few females of modern and quick maturing type. G. E. Clark, Topeka, Kan.

HAMPSHIRE HOGS

BRED Gilts, serviceable boars, January and Febru-ary pigs. Best breeding, well marked. Singly, pairs and trios. Satisfaction guaranteed. Prices reasonable. S. E. SMITH, Route 5, Box 18, Lyons, Kan



For Hampshire hogs, Dutch Belted cattle, Arabian stallions, Collie dogs and goose feath-ers, write C. Weisenbaum, Altamont, Kansas.

POLAND CHINAS

POLAND CHINA SALE January 21, 1915

Forty Bred Sows and Gilts sired by or bred to Tecumseh Hadley 61410, Long King's Equal 2d 68928, and Glosford 68796. Write for catalog early and arrange to attend. Sale held right in Iola, Kansas. For catalog write

J. R. CLINE, CARLYLE, KANSAS.

POLAND CHINA BOARS

Fifteen choice early spring boars—big husky fellows, ready for use. Priced, \$25.00. First check gets choice. L. V. OKEEFE, BUCYRUS, KANSAS.

BARGAINS IN FOLANDS

Few choice spring boars left, all immune. Fall pigs, both sexes, by Frazier's A Wonder and Expansion Hadley, out of big prolific sows. Pairs and trios not related, \$35 and \$50. These pigs are tops and the price cannot be beaten, quality considered. Bred Sow Sale February 10, 1915. Correspondence solicited. Sale February solicited. E. D. FRAZIER, DREXEL, MO.

BIG SMOOTH POLANDS

Big Litter. Big Bone. Big Quality.
Boars, bred gilts and sows. No better bigtype breeding offered. Fall pigs, either spx.
If not as described, no sale.
SANDY CREEK FARM, WHEELER,
J. R. Whightsil, Proprietor.

POLAND CHINAS

Both sexes, of breeding age, sired Jumbo King 64655, Sir Bredwell 67036. Alsopigs. Sow herd represents the best blood lines. Farmers' prices.

R. F. HOCKADAY, Peculiar, Mo.

Faulkner's Famous Spotted Polands We are not the originator, but the preserver, of the Old original Big-Boned Spotted Polands.

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

POLANOS UALITY

Frank offers Polands of size and quality. He will send you a boar worth the money. His circular gives full information. Write for a copy. BEN FRANK, Jefferson City, Mo.

MOORE & SONS—POLANDS.
For thirty days, special price of \$20 for fine male pigs, herd header prospects included. Sired by Choice Goods and Wedd's Long King, two of the best big-type boars living.

living.
F. E. MGORE & SONS, Gardner, Kan.

SPOTTED POLANDS — Few spring gilts; ome nice fall pigs. Prices reasonable.

A. S. ALEXANDER, Burlington, Kansas.

When writing advertisers, please mention Kansas Farmer.

INCREASE YOUR FARM PROFITS



"I wish your book could be read by every farmer and business man in the sorghum belt territory. The use of the suggestions would yield millions of dollars of increased profits to farmers."—C. M. Sawyer, ex-State Bank Commissioner of Kansas, now Governor New Federal Reserve Bank, Kansas City District.

SURE FEED IS SURE MONEY

The grain sorghums are the surest and MOST PROFIT-ABLE crops in the Great Southwest. T. A. Borman, editor of KANSAS FARMER, has written a book pointing out the cash value of grain sorghums to the farmers of the Southwest.

For twelve years in Kansas kafir has been 23 per cent more valuable than corn! That is the kafir record for 1901-1912, inclusive. Think of the difference in favor of kafir of \$2.12 per acre! The kafir was planted on the poorer and drier soils, too. This is a comparison of the poorer lands with the best.

The big live stock county of Kansas grows one-fifteenth of the state's total grain sorghum acreage. Because of the surest feed crops—the sorghums—that county has the feed to make it a great live stock county. Stock of any kind must have feed and the sorghums afford the most certain feed supply. On every farm each year is planted in a haphazard way, a little patch of sorghums. Why not learn sorghum growing and grow it in a way that will assure the feed you need?

THE BORMAN SORGHUM BOOK is an interesting and valuable book showing how kafir, milo and cane, fed to livestock of all kinds, will increase your farm cash and feed income. It discusses EVERY PHASE of sorghum farming, selecting seed, planting, cultivation, types, sectional growing seasons, effect on land, best methods of planting, feeding, handling, etc., and hundreds of other important things that have never heretofore been put into book form.

The proper use of grain sorghums will increase the value of every acre of land in Kansas. It will do this because they will provide feed for all kinds of live stock every year if the planting and cultivation methods are right. The book tells why this is so.

The book is not one of statistics. Of course, it contains some figures, but they are woven into an interesting, readable and instructive story. The experience of hundreds of sorghum-growing farmers is condensed therein.

This book tells of every phase of grain sorghum farming. There is not a thing you can think of that has not been touched upon. The planting, harvesting, feeding, varieties, and the sections adapted to each sorghum, are a few of the important topics.

This is a new book about a kind of farming not yet fully understood. Sorghum farming is a promising hope for the Great Southwest. It is a sure money-making book.

Mr. Borman's book of 310 pages is printed on a fine quality of book paper, is full of pictures and is neatly and substantially bound, and the price is \$1.25 per copy KANSAS FARMER subscribers who renew their subscriptions a copy of the book will be sent with a year's subscription to Kansas Farmer, for only \$1.50, postpaid. To order, fill out the coupon, sending your remittance by personal check,

KANSAS FARMER COMPANY,625 Jackson Street, Topeka, Kansas Gentlemen:-I enclose herewith \$1.50, for which please send KANSAS FARMER one year and a copy of Mr. Borman's Book on R. F. D Post Office. State

draft or money order. Make all remittances and address all letters to Kansas Farmer, 625 Jackson Street, Topeka,

What They Say About This Book

"It is a practical work, for practical farmers, by a prac-

tical man."—J. C. Mohler, Secretary Kansas State Board of Agriculture.

"It is the most practical, up-to-date, comprehensive and helpful book of its kind."—F. A. MITCHELL, Bermuda Stock Farm, Chandler, Okla.

"If this book could be put in the hands of every farmer in Kansas, Oklahoma and Texas, and they could be induced to read and study it, seasons like 1913 would have lost most of their terrors."—JOHN FIELDS, Editor Oklahoma Farm Journal.

"I am certain that it is a valuable contribution to the agricultural interests of Kansas."—Otis L. Benton, Farmer and Banker, Oberlin, Kan.

"I have found it very interesting and full of valuable information. It will prove a helpful guide to any farmer in the Plains country."—GEORGE BISHOP, Farmer, Cordell,

"It is thoroughly readable and a sane discussion of the subject. It is sure to prove of great value to farmers as well as to the student. It is a distinctly valuable addition to the agricultural literature of the country."-W. M. JAR-DINE, Director Kansas Agricultural Experiment Station.

"It is the most practical, the most thorough and the most readable book written on forage crops."—H. M. COTTRELL, Agricultural Commissioner of Rock Island Lines.

KANSAS FARMER TOPEKA, KANSAS 625 JACKSON ST.

KANSAS FARMER

For the improvement

of the Farm and Home

INDEX TO VOLUME FIFTY-TWO OF KANSAS FARMER, NINETEEN HUNDRED FOURTEEN

ANSAS FARMER is now in it's fifty-third year. We are proud of the part we have taken with those who have made the Kansas of today. Ours has been a labor for the advancement of the farm and the farm home. We have labored honestly and unceasingly and have endeavored to merit the appreciation expressed and manifested by Kansas Farmer folks. It is our hope that we may assist in directing the further upbuilding of Kansas agriculturally. We believe in Kansas and her people.

52 Years Old

Copyright, 1915, by Kansas Farmer Co.

Editorial Staff of Kansas Farmer



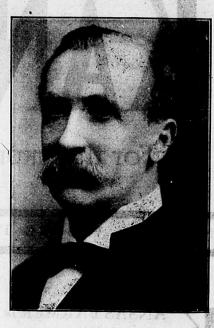
ALBERT T. REID, President



T. A. BORMAN, Editor in Chief



G. C. WHEELER, Associate Editor



THOMAS OWEN, Poultry Editor

BOVE are the men who are behind the editorial guns of the great farm paper of Kansas. They are constantly striving to further the interests of the farmers of Kansas. Information in Kansas Farmer will always be found reliable, accurate and truthful. Kansas Farmer is edited by real farmers—

reliable, accurate and truthful. Kansas Farmer is edited by real farmers—men of practical experience—men whose sole interests are for the betterment and increased profitableness of the agriculture of the state. Kansas Farmer is not edited to satisfy political ambitions, and it never recommends anything to further its advertising columns unless it is to the best interests of its farm readers.

Kansas Farmer is fifty-two years old, and in fifty-two years the paper has grown wonderfully and has been a big positive force in the development of Kansas agriculturally. It has been the teacher and guiding spirit for the improvement of the farm homes of Kansas ever since it started, and today it is stronger than ever in business policy and editorial strength. You will find the writings and teachings in Kansas Farmer to be accurate in every detail and the result of careful study, and not of a "slapstick" kind, catering to the whims of advertisers. Kansas Farmer has hundreds of long-time readers. Kansas Farmer has for many years been a welcome visitor in hundreds of farm homes, which should be an assurance and inspiration to new readers. It is certain that the reader cannot help but thrill with pride in the Kansas of today as compared with the Kansas of yesterday. Not another such state as Kansas has been builded in so few years, and not another state like it will ever be builded. No other state has such people as Kansas. The state like it will ever be builded. No other state has such people as Kansas. The state has been builded as only such a people could make.

KANSAS FARMER has performed its share in the creation of this exceptional

commonwealth. It has directed, and at the same time has carried its share of the burden. KANSAS FARMER is proud of the part it has taken with those who have made the Kansas of today.

The spirit of Kansas Farmer has always been optimistic. We have believed in Kansas always. We have believed in its possibilities and its people and we still

Ours has not been an exaggerated enthusiasm, but a level-headed labor for the advancement of the farm and farm home. Our aim has always been honest, to give good measure and to merit the appreciation and compensation due for the work well done. The weekly issues, in which are printed kind words of loyal readers and friends, and in which appear an ever-increasing number of advertisers, are proof that the appreciation and compensation have been received.

On this platform and on this record Kansas Farmer has prospered and expects to continue to prosper. It is a long step from the little 6 x 9 paper of fifty years ago, with no mechanical equipment and no patronage, to the Kansas Farmer of today, with its complete and extensive publishing and printing plant, and with columns filled with absolutely clean and reliable advertising.

KANSAS FARMER'S great plant and excellent organization is maintained for the exclusive publication of only one paper—KANSAS FARMER. The concentration of such effort has only one object—that, the publishing of a real farm paper, which is not only wholesome reading, but which contains information upon which its readers can rely and farm by in the future as well as in the past.

Advertising pays Feb. 21 3 Use the right address Feb. 28 14 Low price for calf result of not advertising pays farmer June 6 9 Advertising pays farmer June 6 9 Advertising pays farmer June 20 2 ALFALFA. Reseeding edge of alfalfa field Jan. 3 4 Alfalfa helped this stockman Jan. 17 13 Alfalfa as horse feed Jan. 17 14 Alfalfa as horse feed Jan. 17 14 Flax to precede alfalfa Feb. 14 7 Alfalfa market widening Feb. 21 2 Grinding alfalfa for hogs Feb. 21 2 Grinding alfalfa in cane stubble. March 14 5 Cultivate alfalfa March 21 3 Alfalfa premier crop April 4 5 Alfalfa in the stock April 4 14 Poor economy to disk alfalfa April 11 24 Alfalfa crop big June 20 5 Alfalfa for boys June 20 5 Alfalfa for much trouble June 20 13 Alfalfa rop big June 20 5 Alfalfa seeding July 11 5 Grimm's alfalfa again July 11 5 Grimm's alfalfa again July 11 5 Grimm's alfalfa again July 18 3 Cut second crop Aug. 1 4 Handling hell-damaged alfalfa Aug. 1 4 Bister beetle and alfalfa seeding Spring or fall alfalfa seeding 14 16 Spring or fall alfalfa seeding 15 Date Page age. Aug. 1.4 Aug. 1.4 Age. Aug. 1.4 Andling hall-damaged alfalfa. Aug. 1.4 Spring or fall alfalfa seeding again. Aug. 1.4 Spring or fall alfalfa seeding Aug. 1.7 Do not sow alfalfa in orchard Aug. 8.4 Grinding alfalfa field. Aug. 8.4 Grinding alfalfa fon the farm. Aug. 8.4 Advisability of sowing alfalfa. Aug. 22.7 Garden web worm attacks alfalfa. Aug. 22.7 Garden web worm attacks alfalfa. Aug. 29.4 Advisability of sowing alfalfa. Aug. 22. 7 Garden web worm attacks alfalfa. Aug. 29. 4 Large acreage of alfalfa. Sept. 5.10 Pasturing alfalfa—California view. Sept. 19. 2 Sinkholes in alfalfa fields—Sept. 19. 7 Increase in alfalfa acreage—Oct. 31. 3 No "pure" seed label in Kansas. Oct. 31. 6 Fall pasturing of alfalfa. Nov. 21. 4 Rain damages alfalfa hay Nov. 28. 7 On pasturing alfalfa. Dec. 5. 5 Growing alfalfa. Dec. 26. 9 ASSOCIATIONS AND SOCIETIES. Stock breeders' program—Jan. 3 Jackson county breeders' banquet. Jan. 3 Jackson county breeders' banquet. Jan. 3 Jimproved crop men meet. Jan. 3 Limproved crop men meet. Jan. 17 Kansas state dairy association. Jan. 17 Kansas state dairy association. Jan. 17 National live stock association meets in Denver Agricultural convention February 3-4. Breeders hold successful meetling. Jan. 24. 8 Breeders in Allen organize. Jan. 24. 8 Breeders in Allen organize. Jan. 24. 8 Breeders hold successful meeting. Jan. 24. 8 Breeders in Allen organize. Jan. 24. 10 Mohler succeeds Coburn Jan. 24. 5 Wichita finances dry farming congress. Jan. 24. 6 S. H. Trent, president of Top

TO VOLUME FIFTY-TWO KANSAS FARMER

| | Subject | Date | Pa | ıg | е |
|---|--|------------------|-------------------|-----|---|
| | Notch Farming Congress Meeting of Nebraska Dairymen's | | 7. | | 3 |
| | Association | Feb. | 7. | | |
| | Association. Meeting of Galloway Record Association. Work of Secretary Mercer Illinois live stock organizations disagree. | Feb. | 7. 14. | . 2 | 9 |
| | disagree. Shorthorn breeders' futurity. Kansas Bee Keepers' Association. Shorthorn association employs | Feb. | 14. 14. 21. | . 1 | 5 |
| | Shorthorn association employs Kinzer. | Feb. | | 2 | |
| | Stock association needs more members | arch : | 14. | . 1 | 2 |
| | | | 14. | . 1 | 2 |
| | Cattlemen's meeting of House | A | 25. | | 3 |
| | Stock breeders get hearing Percheron Association meeting Percheron Society specials | May May | 16. | ! | 6 |
| | Kansas State Horticultural Society elects secretary Texas Cattle Raisers' Association goes after railroads. | June | 6. | | 3 |
| | tion goes after railroads The value of county agricultural | June 2 | 27. | | 4 |
| 1 | Meeting of the Farmers' Society of Equity. | Aug. | 2 | | 8 |
| | agents. Meeting of the Farmers' Society of Equity. Kansas a leader National live stock commission company. | Aug. 1 | 15. | | 3 |
| 1 | National live stock commission company | Sept. Sept. | 5 | 2 | 7 |
| | Horticultural society programs "Open forum" for Kansas | Nov. | 28 28 | | 6 |
| | A big Guernsey show | Nov. 2 Nov. 2 | 8 | | 8 |
| | Angus association at Chicago Annual meeting Kansas State | Dec. | 19. | (| 6 |
| 1 | A big Guernsey show Big farmers' meeting Angus association at Chicago Annual meeting Kansas State Dairy Association January 1 Swine breeders meet Breeders' association meeting Breeders' association meeting Annual meeting of Kansas State | Dec. 1 | 19 19 | 10 | 0 |
| | Draft horse breeders meet Breeders' association meeting | Dec. | 19. | 1 | 0 |
| • | Annual meeting of Kansas State Board of Agriculture to be held at Topeka | | 0.6 | | , |
| | AUTO-FARM. | Dec. 2 | | • | 0 |
| d | Kansas City auto show January | Jan. | 24 | 1: | 3 |
| | care of automobile casings and mileage. | Feb. | 21. | 1 | 0 |
| | 16-22. Care of automobile casings and mileage. How to avoid automobile back. Half million monthly for motors. Priming device of Presto pump. Motor car values and preservation. | Feb. | 21 | 10 | 0 |
| | Motor car values and preserva- tion | arch 1 | 4. | 1 | 6 |
| | transmission inpricationM | arch 1 | 4. | 1 | 6 |

| How to save on the bills March 14. To keep brakes in good condition. Lise of vulcanizers April 4. Casings better than ever before. April 4. Keep cooling system in order April 4. Working roads play now April 4. Manufacturers insist on education April 18. Foreign engine builders can't compete April 18. No 1914 license yet May 30. All develop plenty of speed June 20. | ag | |
|---|----------------------|---|
| Use of vulcanizers April 4. Casings better than ever before April 4. Keep cooling system in order April 4. Working roads play now April 4. Manufacturers insist on education. April 18. Foreign engine builders can't compete. April 18. No 1914 license yet. May 30. All develop plenty of speed June 20. Bulcate April of Speed June 20. | 1 | .6 |
| tion | 1 | 0 |
| Compete. April 18. No 1914 license yet. May 30. All develop plenty of speed. June 20. Rules for right driving. July 18. Kansas sixteenth in motors. July 18. Farmers' auto trip. Sept. 5. To get out of a mudhole. Sept. 5. | | 6 |
| Kansas sixteenth in motors. July 18. Farmers' auto trip Sept. 5. To get out of a mudhole Sept. 5. To get best wear out of cases. Sept. 5. To avoid road accidents Sept. 5. Strength of pneumatic tire. Sept. 5. Sale conditions increasing. Sept. 5. Be supplied with oil Sept. 5. Two great highways across the state Sept. 5. The moderate car in demand. Sept. 5. The moderate car in demand. Sept. 5. Hints for touring by motor Sept. 5. Hints for touring by motor Sept. 5. Luder-inflation damaging to tires Sept. 5. Anti-freezing radiator mixture. Nov. 7. Thirty days without tag Nov. 17. Motor car utility certain. Dec. 12. | .1.2.2.2.2.2.2.2.2.2 | 6 4 4 9 2 2 2 2 2 2 2 2 2 2 2 |
| state. Sept. 5. The moderate car in demand. Sept. 5. "Brake and Clutch" Sept. 5. Hints for touring by motor. Sept. 5. Under-inflation damaging to | .2 | 2 2 2 2 |
| "Brake and Clutch" Dec. 19. Carbon is burned cylinder oil Dec. 19. Repair motorcycle casings Dec. 19. Winter care of tires Dec. 19. Not so funny after all Dec. 19. | : 1 | 2 2 2 2 2 2 2 2 2 |
| Some automobile sale figuresDec. 19. Tires leak twenty pounds per week | ٠ | 2 2 2 |
| Bee keeping for studentApril 25. Some important meetingsNov. 28. | | 3 7 5 |
| Sugar beets in Neosho CountyJan. 24. Sugar beets as feedFeb. 14. | :2 | 5 3 |
| acre. Nov. 28. BERRIES AND SMALL FRUITS. Regarding strawberry plants. Feb. 28. Berry patch on every farm. Feb. 28. What to do with strawberry plants until ready to plant them. Feb. 28. Prune your grapes March 28. Plant a few strawberries. April 4. | .1 | 1 3 |
| them | .1 | 6 1 0 |

| BERMUDA GRASS. Bermuda as pasture grass Jan. Bermuda grass for Kansas Jan. Bermuda grass for Kansas Jan. Bermuda grass for Kansas Feb. The Bermuda class March Bermuda inquiry answered March Bermuda inquiry answered March Bermuda information March Bermuda information March Settling Bermuda April Bermuda for hog pasture. April Bermuda inquiries answered April Plow to start Bermuda. April BOOKS AND BULLETINS. Volume 81, Shorthorn herd book Feb. Volume 15 Percheron Stud Book of America Feb. | rage |
|---|--------|
| Bermuda as pasture grass Jan | 21 9 |
| Bermuda grass for KansasJan. | 81 . 4 |
| Bermuda habits of growthFeb. | 14 9 |
| The Bormuda grass for KansasFeb. | 21 7 |
| Bermuda inquiry anamana | 721 |
| Barton County Bormude and March | 12112 |
| ence. | 00 |
| Bermuda information March | 2813 |
| Setting BermudaApril | 4 4 |
| Bermuda for hog pastureApril | 11. 15 |
| Bermuda inquiries answered April | 255 |
| Plow to start BermudaApril | 25 5 |
| Volume 21 Shortham BULLETINS. | |
| Volume 15 Percharan Stud Book. Feb. | 2113 |
| Volume 15 Percheron Stud Book Feb. of America Feb. Volume 22 American Aberdeen- Angus herd book March "The International Review" March Women in magazine club March Prof. McKeever's new book March Prof. McKeever's new book April Bulletin worth reading April Title of Mr. Borman's Book April Holstein-Freisian booklet April Department bulletin No. 57 May Book containing plans for barns June The year book of the Federal | |
| Volume 22 American Aberdeen | 2814 |
| Angus herd book March | 7 14 |
| "The International Review" March | 7 14 |
| Women in magazine club March | 7 14 |
| Drainage bulletin March | 14. 5 |
| Prof. McKeever's new bookMarch | 1418 |
| Bulletin Front horsesApril | 1112 |
| Title of Wr. BornardsApril | 1124 |
| Holstein-Freisian beeklast | 18 5 |
| Department bulletin No 57 | 2511 |
| Book containing plans for | 3011 |
| barns | 6 8 |
| The year book of the Federal | 0 0 |
| Dept. of AgricultureJune | 20 3 |
| Regarding the sorghum book June | 20 3 |
| Album of international cham- | |
| New hools on shareJune | 2010 |
| Guide book on sneep feedingJuly | 11 4 |
| Shorthorn herd book | 13 |
| Bulletin issued by Follon | 2210 |
| New Percheron stud book Oct. | 38 |
| American Hereford Journal Oct | 10 0 |
| Album of international champlons New book on sheep feeding. June New book on sheep feeding. July Guide book for gardeners. Aug. Shorthorn herd book. Aug. Bulletin issued by Folker. Oct. New Percheron stud book. Oct. American Hereford Journal. Oct. The bulletin on humus & Soil not to be printed in German. Oct. A history of Kansas. Oct. Volume 23. Angus herd book. Dec. Breeder philanthropist. Jan. Collecting bull fees. March Pure-bred bulls to Argentine. April Brown Swiss cattle. April Care of the farm sire. April Breeding the horns off. April Study breeding records. May Cull out pedigreed scrubs. May Eligible to registry. May Fraudulent pedigrees. May Bulls fraudulently registered. May Pure-bred importations. May Swat the scrub. May Swat the scrub. May Reliable breeders furnish pedigrees Beliable breeders furnish pedigrees | 10 |
| not to be printed in GermanOct. | 17. 3 |
| A history of KansasOct. | 3111 |
| Brooder 23, Angus herd bookDec. | 2615 |
| Collecting bull form | 3 4 |
| Pure-bred bulls to Argonting | 714 |
| Brown Swiss cattle | 415 |
| Care of the farm sire | 412 |
| Breeding the horns off April | 17 7 |
| Study breeding records May | 2 . 6 |
| Cull out pedigreed scrubs May | 9 3 |
| Engine to registry | 16 3 |
| Bulls froudulently and May | 16 4 |
| Pure-bred importations | 16 6 |
| Swat the scrub | 16 6 |
| No demand for grade bulls May | 23 3 |
| Reliable breeders furnish pedi- | 30 3 |
| grees | 303 |
| The breeders' directoryAug. | 303 |
| improvement in horse breed- | |
| Hold broading hards | 29 2 |
| Selecting the hoar | 5 3 |
| Selecting brood sowSept. | 19 3 |
| No demand for grade bulls May Reliable breeders furnish pedi- grees May The breeders' directory Aug. Improvement in horse breed- ing Aug. Hold breeding herds Sept. Selecting the boar Sept. Selecting brood sow Oct. What breed of hogs? Oct. Age to breed fillies Nov. Cane and milo seed wanted Jan. | 17 4 |
| Age to breed fillies | 2412 |
| CANE. | 41 4 |
| Cane and milo seed wantedIan | 3. 4 |
| Storing of sorghum or caneFeb. | 28 4 |
| Cane and milo seed wantedJan. Growing of sorghum or caneFeb. Storing cane roughage for futureJuly Harvesting cane for forageAug. | |
| Harvesting cane for formJuly | 25 4 |
| cane for forage Aug. | 8 4 |

Date Page

| Subject | Date Page | Subject bs led to pure breds ng for dairying and Bro | Date Page March 2110 D | Subject airy cows fed alfalf DAIRY TOPIC | Date Page aDec. 19 8 S—GENERAL. rnJan. 3 6 | Subject Cost of feeding Home-grown profit | a cowMar- feeds for dairy Mar- iing cow testing.Ap on milk flavor.Ap corn and branM | ch 2115 |
|--|---|--|--|---|--|--|--|---|
| Subject Siloing immature cane Fall handling of cane land Cane for brood mares Cured frosted cane not damag ing CATTLE—BEEF. | Dec. 12 8 Valu | rove dairy herd | aMay 16 8 May 23 4 P | dairying | jan. 31 itJan. 171 | Feed influence Substitutes for Feeding milk of Feeding the n Feed the milk | on milk flavor. Appears and bran. Moows in summer. Moows in summer. Moo cow roughage. Offeed | ay 2 4 ay 16 9 ay 30 6 ct. 10 8 ct. 24 8 |
| Aga at the carte and meat imports Fattening steers in short cor years Conservation of the cow | Jan. 1715 Cow | fails to breed | Ow. Oct. 1712 G | horoughness in milk horoughness in milk horoughness in milk high | prices too Feb. 71 | 9 Inquiry concer 3 stein heifer Apple pulp fee | ning feed for Hol- | ov. 2110 |
| Overcoming beef shortage Beef cattle shrinkage in trans Optimism in cattle trade Cattle scarcity—not a theory. | Jan. 31. 5 inti it. Feb. 14. 7 Feb. 14. 16 Dai Feb. 21. 14 Har Feb. 21. 18 Wh | st treatment for barren cuence and effect of re- red bulls. y Room and Care of d separator butter at is speed of your sep pr?. king prize farm butter. king prize farm witter. | Dairy ProductsJan. 312 araJan. 1013 | tial for stock Co-operation in dairy Development of dairy in IIIah. | business. March 7l y industry | Give milk cov Regarding dri ing the win Milk cow rati | ed for milk cows. silage and alfalfa. Now plenty of feed. Donking water durter. on Don Donking to al- s roughage. | ec. 5 8 |
| Baby beeves make cher gains Increasing cattle production | .March 14 7 Cos .March 28 2 To | t of butter production keep cream sweet ight of gallon of milk | March 2114 April 1812 | Cause of slump in b | utter mar- March 14 | Cost of silag | e for twenty-four | Dec. 19 9 |
| Cattle growers encouraged. Warbles in cattle Price of stock cattle vs. finish cattle Dehorning calves Fewer cattle in Flint Hills. Beaf cattle on general farm | May 2 8 Car | use of poor farm butter re of hand separator cre frigerator milk or cream nuine butter | | | March 14 March 14 S each March 21 rom dairy- stock de March 21 stock de March 21 petition April 4 for Kan- | Proper Prop and alfalfa Cottonseed m | ortions of Silage leal for dairy cows. SIS AND OTHER | Dec. 19 9 Dec. 26 7 DISEASES. |
| Scarcity of beef cattle in Argetine tine High priced Herefords Raise feeders at home | en- May 210 De | milk | July 11 | sas. | April 18. | of milk | vs. increased price vs. increased price M tubercular cows states Mai | arch 712 ch 712-13 May 9 3 |
| Feeding baby beef CEMENT. Repair foundations with certe | 9 11 D | ells for cream setore ing. old milk or cream before ing. nk may be used for si cream. urges refrigerator can the use of sour milk effigeration of milk and cit milk during water could milk the delive barns. | Oring July 11 8July 11 8Aug. 1 8Aug. 1 8Aug. 22 4Aug. 22 4 | Making money dair Cost of raising dair Milk from Legumes More dairying in A Increase milk by G | ment May 2. yying May 2. yy stock. May 9. llen county. May 23. deborning. May 23. nan May 30. lices June 13. l. farmers to June 13. l. farmers to July 4 | 6 Cow dealers 9 Pays to stan 6 Cow dealers Paying for 7 Law on test culosis. | scored | Aug. 29. 4 |
| Concrete instruction costs no ing | oth- Oct. 31 7 II Nov. 14 4 L Dec. 26 9 C alkAug. 29 4 P | earn milk quality ause of thin cream roper use of separator first class separator | should gent 512 | Regarding butter pr Financing the dair Effort to induce III grow their own m Colorado should p | ricesJune 13. I farmers to ilk cowsJuly 4 roduce more July 4 | Test for tu Remedy for Dairy cattle | lump jaw | .Nov. 21 8 |
| About burning the bugs K. S. A. C. bulletin about ch bugs Burn bugs soon as grass | inchJan. 17 3 T | alue of the warm skim to improve cream Protect the cream wh | milk. Sept. 12 3 ile in Sept. 12 6 | Progress in dairy | roduce more July 4 hing July 4 July 4 grade July 11 nig in Cali- July 18 re selected July 18 | gress 8 Cow, found success | ation of dry farming | March 14 6 April 25 6 |
| Farmers destroying chi bugs | kafir Sept. 267 | The working of butter Testing for Proceed Dickinson country Belled butter fat r | herdJan. 313 ecordJan. 17 2 | The use of Babco Hutchinson plan | ck testJuly 18 a milk con- July 18 | 8 8 Grows whe Policy for Building for Internation | dry farming or Kansas counties. al Dry Farming Con Wichita | Aug. 22 5 Aug. 29 3 Sept. 5 5 |
| Pight chinch bugs by operation Plan chinch bug burning paign Burning exposes bug weather weather and worm | cam- Dec. 5. 5 | tion | Jan. 17. 12 ireJan. 24. 5 cream Jan. 31. 13 Jan. 31. 5 | Produce the best of material. The enforcing of Rules for purchas grade. | quality of raw cream grading.July 2 | 5 8 Internation gress at Sorghum | Wichita | Sept. 12 5 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- |
| silage CO-OPERATI | ION. Jan 10 9 | Difference in producing ity | Capac- Feb. 1413 Feb. 1413 inFeb. 2116 | Why farmers show | avy creamAug. | 1 8 Dry Farm 1 8 interest 1 8 About dry | in agricultural book farming EDITORIAL. | cs.Nov. 7 3 Dec. 5 3 |
| Co-operation of farmers. Farmers' market | Feb. 2125 d Co- | Fifty-five dollars profit Cows double output | March 21 | produced beef | r productionAug. experimentsAug. entire stateAug. | 111 The preso | Politics"—sure enou- ription fraud 1 lows farm 1 sloss in Chautaug 2 farmers writing 2 farmers writing 3 farmers regard 4 immigrants | Jan. 24 3 |
| Social center does good community Co-operation of farmers | to aMarch 14 8 s andJuly 4 3 | Regarding Dickinson Coing records. New Holstein records Dickinson County Cow | Testing April 181 | Gream and milk Federal Departn | express rates. Aug. nent of Agric. | 1510 Chinese eggs | the Santa Fe regard immigrants eggs vs. Americ es of Kansas mmelina Bubble" g agricultural comm | ngFeb. 21 3 anMarch 14 3March 14 3 |
| Co-operative egg marketi | with | The value of a cow Why testing association | is good.May 21 in OreJune 6 | 1 Commissioner H 8 aminations. Tackson's milky | wayAug. | 29. 5 sioners 29. 9 Loss by | fire in Kansas | April 18 3 |
| How a live community eli ed denominational prob Com. Hine Co-operative breeding m Co-operation in silo b and filling Grain elevator operation Grain elevator operation methods | Oct. 24 3 | Correction of milk rec Big Holstein producer "Lucky Farce" exceed | ordJune 13 ls Jersey June 20 | 9 Experiment in C A lesson by com 8 Wisconsin foret husbandry | ream grading Sept. parison Sept. most in dairy flow of milk Sept. | Guick W 525 Kansas 12 7 desires Mobler | ork sometimes pays | ure oo s |
| Community finds itself. CORN Study corn and sorghum Corn shrinkage | Jan. 31 3 | Milk records for May Dickinson Co. cow to port. | June zv | 9 Wilking come | ed by tempera- Sept. | . 19 9 Value of Too ma | pictures of wheat. Secretary Secretary of shippers, consignations of fat reducing cure. ny commissions of prayer of the Philippines ers should take int wernment affairs | July 4 3 Sept. 12 3 Sept. 26 3 Oct. 3 3 Nov. 7 3 |
| Oil made from corn Ohio seed corn To protect corn from | rats and Feb. 21. 4 | Accordation | | 8 builder | ord should be the Septialk cow as home. | t. 310 Plea fo | r farm inventory the people of Kansa | Dec. 26 8 |
| Scarcity of home-grov corn. What about your seed Fraudulent sales of see | wn seed Feb. 28 3 corn?Feb. 28 3 d cornFeb. 28 3 | May Rlima, the Gue ord cow. Dickinson County Co Association. | rnsey rec- w Testing | . 3 kept on a far Organization of Progress of cr 9 Milking mach | n a farmOc eam gradingOc ines at National | t. 310 Farmer t. 310 engin t. 10 8 The bin Engine | es | Jan. 1713 May 303 June 137 June 209 |
| Seed corn for 1914 pla Early work for corn pa | anting. March 21 3 ays March 21 3 us March 21 3 | Concern | recordsOct. 17. | . 8 To interest Te: The effect of Kansas cheese Nebraska's cre | Australian butteroc againoc eam grading plan | 31. 10 0 | for pumping water | Sept. 12 |
| Argentina corn When to plant corn Depth to plant corn Early cultivation of corn Kan. Rape in corn Should test seed corn Poor seed again | July 11 | The basis for compu production | ting annual Dec. 5 | . 8 Slogan at th | e dairy show in creameries makes ssible. | ct. 24 8 Supt. | more power on farm veather engine stari EXPERIMENT S Hays Experiment S iment station and f imental work in col of Colby sub-station branch station production experimes | eder. Jan. 24.11 en for Feb. 21. 3March 7.10March 7.11 |
| To "lay-by" corn Prospects improved Corn for the winter Corn and oats advance | July 25 Aug. 1 | 7 DAIRY 5 Cost of Dairy Cows Keep profit making Legresse in milk cov | CATTLE. Jan. 17 cows Jan. 17 reb. 14 | The unprofita Made good co Concerning Objectionable denseries. | ream light | oct. 31 8 Busing tion Oct. 31 8 Cattle | men's day at Manh silage wins | attan.April 18 3April 18 4 |
| Inquiries about Argen Seed room vs. corn cr Prices forty years ago | ribOct. 17 | dairy cows 4 High prices of goo | d producing March March March | pork Condensing d Cheese makir | istrict of KansasC | Oct. 31 8 Hays Oct. 31 8 Beef Oct. 31 9 India fov. 14 8 stra | production at Hays na Ex. Station of | lemon- lageJune 27 5 |
| Fall plowing east and Hogging down corn . Clean wormy corn with Sunflowers vs. a corn | d central. Nov. 28 Nov. 28 th sheller. Dec. 12 crop | Butter making not Cows pay farm ext \$35 per cow for six Dairy profit doubtf | profitableMarch 2 ensesMarch 2 monthsMarch 2 11March 2 ayMarch 2 | 121 A silo built 1 124 The interests managers | for one cow | Vov. 14 8 India | meeting affords chi e interesting condi- riment station at Co Home' day at Fort y Hays' methods na exhibit attracts | Mays. Aug. 22. 3 Hays. Aug. 22. 3 Sept. 19. 3 atten- Nov. 28. 10 S AND SHOWS. Stock |
| Cotton & Cottonseed down. Cottonseed meal u hogs. Appeal to governme care of cotton croi | insafe for Sept. 19 | est profits 6 More Holsteins to Milk and beef profits Purchases of | Kansas June 1 ucers June 2 Wis. Dairy | 3 9 Success of in our of in the success of in | ure placed in gal- saddle and Sirloin | Dec. 5 8 Kans Kans | ow. sas Fairs in 1914 sas State Fair Ass'n | annual April 43 |
| Cottonseed as supr | olement to Nov. 14. | o dele door not ches | - andJune | oclumn | into the profitable cream | Dec. 5 9 Po Dec. 5 9 Regg Dec. 19 7 Pa | arding live stock at leific Exposition. | Panama in live |
| Soy beans for centra Cowpeas as catch Hogging off cowpea | & SOY BEANS. 1 Kansas. March 7. cropMay 3. as and fetNov. 14. | sas | olstein calfJuly | 4 8 Milk conder | d ideas | Dec. 26 8 Abo Dec. 26 8 Abo | | Pacific May 9. 9 Panama May 9. 9 tion at sosition. May 23. 3 ma. Pa- May 30. 3 June 6. 29 |
| Creamery business Kansas | in western Jan. 3 March 1414 | .13 Pure-bred cows re 1-15 Disposing of surpl 8 Jackson's milky W | ys onlyJuly equire careJuly us bullsAug. | 18 8 able | of two dairymen EDING DAIRY CATT milk cows | Jan. 3 4 Into | ernational directors | торека 20 2 |
| Buying cream on a Burning of Scott Ci Creameries adopte plan | ty Creamery. July 4. ed grading | Calf eats same11 mother. | feed as its Oct. | 310 Value of si 10 8 Feeding an | llage for milk cows nd caring for dairy milk cows | Jan. 3112 Pre Jan. 3112 Bre Feb. 719 Th | liminary classificati ma Pacific Exposit e Topeka Fair tional Dairy Show | ons Pan- lonJuly 1111 July 253 in OctAug. 1 |
| ing for empty ca Centralizing crean dairying possible | nsOct. 17 neries make Oct. 24 | | unprofitable Oct. od cows Oct. dy milk Nov. Dickinson Co. Ass'n. sold Nov. p Nov. vilcox's sale Nov. calves Nov. | 7 9 Dairymen' | essary for maintaining W. milk cows s need for alfalfa hay | Feb. 2812 Pr. Feb. 2812 Fay. Feb. 2812 Fa | emium list of H Fair | utchinson Aug. 22 Topeka Aug. 29 |
| CROP | and Breeding. Liery men at Nov. 21 DISEASES. wilt | Records help to Records help to Pure-bred busine cox | sell cowsNov ss for Mr. Wil | 7. 9 Dairyman ing Sufficient essentia Year-arou Alfalfa s | feed of right kin l in dairying nd income the thing. | March 1414 To March 2111 A | wo big shows—To Hutchinson. | peka and Sept. 5 Show at Sept. 12 |
| DAIR! Breeds Grading up of dair | and Breeding. y herdMarch | Milking tendency 712 veloped | y should be de- | 59538 | alone for milk pro | | | |

| Subject Date Page An early colt showSept. 19 2 International Live Stock Exposition at ChicagoSept. 19 3 | Subject Date Page Household labor savingJan. 173 Scott county farm doingsJan. 2416 Wife well worth whileJan. 247 | Subject Date Page buildings | Subject Date Page Fighting animal diseases Nov. 28 3 Quarantine on hay and straw. Nov. 28 5 No fear of eating meat in quarantined states |
|--|--|---|---|
| Fair great educator Sept. 19. 5 Dairy show at Wichita Sept. 19. 5 State fairs last week Sept. 26. 4 O. I. C.'s at the Topeka Fair. Sept. 26. 11 Public service stallions at Fair. Sept. 26. 11 Shorthorns at Tope ka and Hutchinson Sept. 26. 11 | Cattlemen best farmersJan. 24.10 Iowa girl wins prize for road draggingJan. 24.14 Skunk has farm valueJan. 31.9 Save on blacksmith's billsJan. 31.11 Interest rates may be reduced. Feb. 14.9 Hay making methodsFeb. 14.11 | Concrete on the farm | antined states |
| Butler Kafir Carnival Oct. 10. 3 Achenbach Bros. won at Illi- nois Fair Oct. 10. 7 National Dairy Show in October Oct. 10. 8 Kenses Galloways win at Illi- | Hay making methods Feb. 14. 11 Iowa Agricultural College studying farm buildings Feb. 21. 3 Tobacco for Leavenworth Co Feb. 21. 17 Hedge balls for fuel Feb. 21. 18 Seeking a new location Feb. 28. 12 The farm office Feb. 28. 12 | Wheat and cottonseed meal for fattening steersJan. 1010 Molasses feeds and tankageJan. 17 4 Mineral matter in tankageJan. 17 4 Careful feeding paysJan. 17 4 | Potato improves soil productivity |
| nois Fair | Uncle Sam wants better childer | Save the straw Jan. 17. 18 Alfalfa helped this stockman. Jan. 17. 18 Alfalfa as horse feed. Jan. 17. 14 Fattening steers in short corn years. Jan. 17. 15 Commercial feeds in demand. Jan. 24. 6 Regarding feeding stuff analysis. Jan. 24. 9 | The farm garden Feb. 28. 7 Early garden work Feb. 28. 7 Potato culture bulletin Feb. 28. 18 Cost of good garden Feb. 28. 18 Verstelle verifies for Kaness Eeb. 28. 19 |
| Dairy Show. Oct. 24. 8 Slogan at the Dairy Show in Chicago. Oct. 24. 8 American Royal a breeders' show. Oct. 24. 12 Western Kansas fairs. Nov. 7. 3 Why Topeka and Hutchinson | ture | Experiment station and feeder. Jan. 2411 Ration for fattening pigs Jan. 314 Oil meal for colt | Farmer should provide for Feb. 28.19 Orchard and garden notes March 7.13 Fruit and vegetable garden March 21.21 Village garden contest March 28.20 Planting table for vegetables April 4.22 Mulching garden crops May 9.2 |
| Fairs were held on the same date | Regarding the merits of Com- melina | Argentine grain on market. Feb. 7.14 Feeding out load of cows. Feb. 7.17 Ration for milk cows. Feb. 7.19 Short weight feed Feb. 21.3 Straw as hog feed. Feb. 28.14 Costs in feeding live stock. Feb. 28.14 Short weight feeds. March 7.14 | Mulching garden crops |
| Carlot exhibits at American Nov. 7.10 Regarding live stock at Frisco. Nov. 7.11 Two big shows off | Taxing the Gog March 28.15 About farm loans March 28.24 Education and the farm April 4.3 Long time farm loans April 4.3 More about Commelina April 4.4 Draining lake or basin April 11.8 | Feeding hogs for marketMarch 145 Early feed cropsMarch 213 Feeding from a siloMarch 2123 Regarding costs in feeding live stock | Reed. Jan. 10. 16 All day Grange meeting Jan. 17. 17 Report from Valley Grange No. 736. Jan. 17. 17 The value of organization Jan. 17. 17 Shawnee Grange elects officers. Jan. 31. 15 |
| cago. Nov. 21. 10 Value of National Dairy Show. Nov. 21. 10 Dairy show for west. Nov. 28. 3 Breeders meet in Chicago. Nov. 28. 8 A big Guernsey show. Nov. 28. 8 | Beautifying home groundsApril 1110 Commission rule in rural re- ligionApril 1118 Farm home making don'tsApril 1123 Bulletin board for farmersApril 182 Fur farming in KansasApril 183 | Hominy vs. corn for hogsApril 415 Best ration for early develop- ment of pure-bred pigsApril 255 Ration for brood sow with pigs.April 255 Substitute for skim milk for | Letter from Equity GrangeJan. 3115 The Grange Woman's Work CommitteeJan. 3115 Grange fire insuranceFeb. 723 Hurricane GrangeFeb. 723 Manhattan Grange meetingFeb. 723 |
| Kansas Panama Pacific building Dec. 12.16 Kansas to show pictures at Panama-Pacific ExpositionDec. 26. 3 FARM AGENT. | "Rural welfare work" . April 18 3 Kansas' State debt | Pigs | Jackson County Pomona holds a big meetingFeb. 7.23 National Grange receives relic from GreeceFeb. 14.17 A record serviceFeb. 14.17 Shawnea County Pomona meets Feb. 21.25 |
| gomery county. Feb. 7. 3 County agent organizes clubs. Feb. 14. 21 P. H. Ross will address Alfalfa club. Feb. 21. 3 Work of county agents, Ross & Feb. 21. 3 | How plants feed May 2 . 3 Value of birds to the farmer . May 2 . 6 Farm census in Nebraska May 2 . 19 Value of our building stone May 2 . 17 Swimming pool on farm | Feeding calves skim milkJune 6. 8 Catch feed cropsJune 20. 3 Value of cottonseed mealJuly 1111 Feeding wheatAug. 1. 3 Rve compared with corn in | Valley Grange meeting |
| "Farm Adviser" to "Farm Assistant." | Growing mushrooms | feeding. Aug. 1.4 Take care of the roughage. Aug. 1.9 Hay will be high. Aug. 8.14 Feed silage in addition to pasture to milk cows. Aug. 15.10 Sow rye for pasture. Aug. 22.10 Plant grain feed early Aug. 29.6 | Reviving Dormant GrangesMarch 2127 Suggested program for AprilApril 423 Grange W. W. C. meets |
| Kansas | Eastern Kansas farming meth- ods. June 20. 6 Handling dynamite June 20. 7 Drainage district organized June 20. 14 Hall damage—but insured June 20. 14 Bank stock for farmers. June 27. 5 | Plant grain feed earlyAug. 29. 6 Use forage as both winter and summer feedAug. 29. 6 Reducing grain in stock feed- ingSept. 5.14 Value of balanced rationSept. 5.26 Be specific in your inquiries Sept. 12. 4 | sion |
| west | June crop report July 43 Activity in western lands July 43 Plan for small farm house July 44 Winter Emmer July 46 Keep exchange labor account July 47 Repairing foundations with con- | Difference between air-dried and sunburned hay | Grande news |
| Farm agent wins confidenceMarch 2812 Nucleus of co-operative effort.March 2812 Instills contagious enthusiasm.March 2812 County agent and better live stock | crete | Feeding cattle on kafir. Oct. 3.5 Pointers for feeders Oct. 10.2 Self feeder for swine Oct. 17.4 Bread for horses Oct. 17.7 Feeding alfalfa to horses Oct. 17.7 | ward County Farm Bureau. June 6. 3 Coffey County Pomona Grange items. June 20. 14 'Grange' at Topeka Fair |
| Leavenworth Progressive Club. March 28. 17 Brief life stories | Disk and plow early July 11 3 To "Ground" wire fence July 11 5 To prevent washes July 11 9 Use of summer fallow July 18 2 Helps the farmer July 18 3 Farmers to hold weekly meet | Tankage again Oct. 17. 12 Tankage inquiries Oct. 24. 5 Sorghum crop a supplement to pasturage. Oct. 24. v Preparation of feed Oct. 31. 4 The Tepary bean again Oct. 31. 6 The feeding of fodder silage. Oct. 31. 12 | stroyer. July 4. 2 Grasshopper outbreakJuly 11. 6 Do not use vinegar in bran mash |
| Miami secures capable agentMay 30 9 Nine county agentsJune 6 2 Demonstration on the farmJune 6 3 Solvin view regarding farm | ings. July 18. 3 To minimize labor on farm. July 18. 3 Reorganize cropping plan . July 18. 7 Setting fields with buffalo sod. July 25. 4 Bank stock for farmers July 25. 4 Exclusive grain farming a fail- | Feeding Laby beef | pers. Bran mash still for grasshop- pers. Oct. 31. 7 Bran mash formula extends to other states. Dec. 26. 3 |
| agents | ure | Hogging off cowpeas and Feterita | The Hessian FlyJune 6 3 Disk and plow early to control Hessian FlyJune 6 5 Hessian fly warningJuly 11 6 Hessian fly to be controlled July 25 4 Hessian fly in wheatNov. 21 4 HOG CHOLERA. Great losses from hog cholera. Feb. 14 14 |
| Benefits derived through county agent | If you wish to sell hayAug. 83 In years of plenty provide for short yearsAug. 89 War effect on tradeAug. 89 War effect on farm productsAug. 222 Estimating crop conditionsAug. 224 | corn. Nov. 21. 6 Profits in wintering cattle. Nov. 21. 6 Value of cold-pressed cotton- seed cake. Nov. 21. 9 Inquiry concerning feeds for young helfers. Nov. 21. 10 Apple pulp feed for milk cows. Nov. 28. 5 | Hog cholera spreads Feb. 21.14 Vaccinating brood sows March 7.15 Menace of hog cholera March 14.14 |
| District farmers' meeting Jan. 3. 3 Horton farmers progressive Jan. 10. 9 The week of institutes Jan. 17. 7 Jewell Co. takes the lead Jan. 17. 7 | Plowing to save moistureAug. 225 Divide the acreage between the earlier and later varietiesAug. 296 Farmers must keep more live stockAug. 296 Belgian children kept on farmAug. 2911 | Hogging down corn | cholera. March 21.116 Important thing in eradicating hog cholera. May 16.5 |
| Reviving community life. Feb. 14. 3 Western farmers meet Feb. 14. 3 Farmers' institute a school. Feb. 14. 17 Moyable schools for women. Feb. 21. 21 | Does the Mrs. have a good washer?Sept. 5.24 Do not depend on one cropSept. 5.27 Farms owned by railroadsSept. 12.3 War effect on farmerSept. 12.5 Ease in changing wagon boxes. Sept. 12.9 Which is more profitable crop? Sept 12.9 Block and tackle for butchering Sept. 13.9 | Feeding the pregnant sowDec. 26. 10 Cottonseed meal for dairy cows.Dec. 26. 7 Cottonseed meal for horsesDec. 26. 7 FERTILIZERS. A negro farmer's method of fertilizingMarch 21. 24 Is phosphorous needed? April 25. 8 Bread from stonesMay 2. 7 | Hog cholera prevention May 16. 7 Sanitation and hog cholera May 16. 7 Fight against hog cholera May 23. 4 Regulations concerning hog cholera. May 30. 5 Hog cholera prevention June 6. 9 Fake hog cholera cure. June 13. 10 Pigs may have cholera June 20. 5 |
| Club | Which is more profitable crop?.Sept 12. 9 Block and tackle for butchering.Sept. 19. 9 Varlety reports from ScottSept. 26. 2 Farmers' educational move- mentSept. 26. 3 Keep land at workSept. 26. 3 Dairy barn should be protected | Straw as a fertilizer | Benetoi not choiera cureJune 21.11 Cholera control in TennesseeJuly 4.11 Campaign against hog choleraJuly 1810 Breeders object to present rul- ing |
| About farmers' convention at Oakley | against lightning | Feterita for west | New rules formed |
| Institutes closer to the farmOct. 3 3 The big instituteOct. 31 3 November farmers' instituteOct. 31 7 Make arrangements to attend State Farmers' Institute at Manhattan | Farming complex business Oct. 10. 3 War effect on southern farmer . Oct. 10. 3 Renters making more money than owners | Durra? Prussic acid in feterita July 25 4 Feterita disappointing at Hays Aug. 1 6 Likes feterita and Sudan grass. Aug. 15 6 Reports on feterita Aug. 15 6 Seed in the head best Aug. 15 7 Comparing feterita with kafir Aug. 15 7 | Hog cholera device |
| Annual institute round-upNov. 28. 2 Opportunity for the boys and girlsDec. 5. 3 Three important meetingsDec. 5. 6 Concerning Rago farmers' insti- | Study your business Oct. 24. 3 Preserving fence post Oct. 24. 5 Believes in deep plowing Oct. 24. 7 Fall plowing for insect control. Oct. 24. 7 | Selecting feterita seed Aug. 15. 7 Hold feterita seed in the head .Aug. 15. 7 Heading after two months Aug. 22. 4 Crop diversity on eighty-acre farm Aug. 22. 10 Feterita successful Aug. 22. 10 Feterita in central Colorado Aug. 29. 4 Howarter feterita in central Colorado Aug. 29. 4 | Immunizing pigs |
| tute | Cornstalks and snow | Feterita as silage crop Oct. 17. 7 Feterita adaptability Oct. 31. 2 Feterita in western Kansas. Oct. 31. 2 | Ration for fall pigs Jan. 10 8 Sleeping quarters for hogs Jan. 10 10 To kill lice on hogs Jan. 10 19 |
| Poison pocket gophers | bles. Nov. 7. 6 What profitable farming means Nov. 14. 3 Small concrete buildings Nov. 14. 4 Size of farm and income Nov. 14. 4 Hogs must follow cattle Nov. 14. 5 | Second growth feterita Nov. 7. 7 Feterita and Sudan for west Nov. 28. 6 Feterita for dry and short sea- sons Nov. 28. 6 Feterita in eastern Oklahoma. Dec. 5. 6 FLOWERS. | Hog prices advance |
| rows. March 14. 5 The kafir ant April 18. 2 The "Mysterious" is common cut worm. April 18. 3 The green bug April 25. 3 How to destroy ants in kafir. May 2. 3 Poisoning pocket gophers. May 2. 5 Exterminating rats May 2. 6 | Fall listing for Thomas county. Nov. 14. 6 Every farm needs a hoist Nov. 14. 9 "Get cow, pig and hen" Nov. 21. 3 To keep the young folks on the farm Nov. 21. 3 How to care for the stubble Nov. 21. 4 | About early sweet peas Jan. 31. 7 Canna bed for early yard Feb. 21. 19 The rainbow coxcomb Feb. 28. 9 Making ready for summer flowers March 21. 18 Planting the summer flowers March 28. 20 | Starting in better hogs Feb. 720 Mulefoot hog record Feb. 2114 Brood sow and litter Feb. 286 Hog feeding bulletin Feb. 28. 14 |
| Fight the flies | How to care for the stubble. Nov. 21. 4 Fall handling of cane land. Nov. 21. 6 Barn ventilation essential. Nov. 21. 6 One windmill helps farm income. Nov. 21. 7 Borrowing to buy cattle Nov. 28. 3 Getting into cattle Nov. 28. 4 | Pruning of rose bushes | Keep track of the pigs. March 7. 4 Raising hogs profitably March 7. 9 Mark the pigs March 7. 14 Saving pigs in zero weather. March 7. 14 Feeding hogs for market. March 14. 5 Don't stuff the brood sow. March 14. 7 What will pork be worth? March 21. 2 Government hog tonic March 28. 14 |
| Army worm control June 6. 7 Fighting army worms June 20. 3 Wheat straw worm June 27. 10 Destroying farm pests July 4. 7 A spray for meion aphis Aug. 1. 7 Control of grain weevil Oct. 10. 6 Destroying grain insects Oct. 17. 6 | Storing sweet potatoes for fam- ily use Nov. 28 . 6 Early plowing and plant food Nov. 28 . 6 Fall plowing east and central Nov. 28 . 7 | Bulbs should be ordered soon. July 1112 For the flower lover | Working the hogs |
| Destroying grain insects Oct. 17. 6 Gophers damage alfalfa Nov. 28. 5 Use poison to kill gophers Dec. 5. 3 FARM ITEMS OF GENERAL INTEREST. To keep rats from straw shed. Jan. 3. 6 Herd book records Jan. 3. 10 Farming and capital Jan, 10. 19 Farmer his own butcher Jan. 10. 19 | Fence the farm | No call for panic | cost. April 25.8 Take care of the runty pigs. April 25.10 Weaning pigs. April 25.10 Farming out pigs. May 9.5 Showing pigs at the fairs. May 9.8 Hogs and tuberculin May 16.3 Treating hogs for lice May 23.6 Hot air hog story May 30.10 |

| Subject Date Page Hogs in alfalfa pasture June 6. 3 Conserve pig crop June 13. 10 Shade for hogs June 20. 10 Cheap production of pork in July 4. 8 California. | Subject Date To remove rust from stoves April Pass it on | kafir | kafir and Ho | Subject urding dical value of spices freshen dry lemons w to peal pears w to make sponge cake light hat milk is worth whip cream in a hurry | Date Page July 11.,12 July 2512 Aug. 813 Aug. 2910 Sept. 520 Oct. 178 |
|--|---|---|--|--|---|
| Rules on snipment of logs July 4.11 Kansas. July 11.2 New rule for handling stock hogs. July 11.2 Argentina grows hogs. July 11.5 Soaking corn for hogs. July 11.5 Shipping hogs in hot weather. July 11.10 Pararries of nuce-bred sires. July 25.11 | To clear drain pipes | 2. 12 seed for planting 2. 12 Kafir acreage should it 2. 12 Big silage yields from 2. 12 Grow kafir and play s 2. 12 Allen county tests kaf 2. 12 Kafir acreage increasi 2. 12 Kafir outyleids corn | March 14 11 10 10 11 12 15 6 12 18 18 18 18 18 18 18 18 18 18 18 18 18 | whip cream in a hurry scrape new potatoes e meat grinder for cocoanut ble syrup from apples rkey stuffing for thanksglv ing keep icing from running of ok potatoes with skins on LEGISLATURE AND LEGI rm credit in Congress | Oct. 3111 Nov. 714 Nov. 2112 fNov. 2812 Dec. 1911 ISLATION. |
| Feed wheat to hogs | To gather ruffles | 212 African kafir in Okli 212 Kafir brings profits . Kafir makes better av 910 Kafir makes better av turn per acre than 810 Kafir and milo plant KANSAS : Regarding New Year r | AhomaNov. 7. 6 RealowsNov. 14. 2 Curse recornDec. 26. 10 IngDec. 26. 6 LingDec. 26. 6 L | garding interstate commercials. Irrency law expands agricultural credits. ability contracts in Congress gislature to appropriate for twine plant. Ingress to appropriate for Dr. Farming Congress. ve stock freight claims law. | April 18 3 lJuly 4 5 sJuly 4 9 orJuly 11 3 |
| Hogs and cottonseed meal. Oct. 3 9 Pigs not immune Oct. 3 9 Watering device for hogs. Oct. 17 5 What breed of hogs? Oct. 24 12 Western Kansas for pork production. Nov. 7 4 Immunizing pigs. Nov. 7 6 Hogs must follow cattle Nov. 14 5 Rid hogs of lice. Nov. 14 10 Rid hogs of lice. Nov. 28 8 Handling fall pigs. Nov. 28 8 Handling fall pigs. Dec. 26 10 | something new for stuffing something new for stuffing the pillows. Teach children to help May To remove old wall paper May Waging war on household pests. May To wash halr brushes May Read latest books May To make bit for baby May To dry clean lace May To keep carpet moths away May To sharpen blunt needles May To sharpen blunt needles. | 910 Friend of Kansas Far 910 He is strong for Kansas 910 Kansas Farmer see club helps western 1612 Kansas Farmer index 1612 Boys' and Girls' conte 2310 Cost Agricultural Col K. S. A. C. girl wins g | d wheat SI D Carmers. Oct. 3 3 D Carmers. Dec. 26 3 | ve stock freight claims law. secial insurance legislation. istrict court ordered Internitional Harvester Company I dissolved. allion law brings improv ment. ansas hedge and weed law eggrading uniformity of law | a. be Oct. 24 3 |
| Colt show great educationJan. 39 Feed horses silage cautiouslyJan. 322 Proper size in draftersJan. 1714 Colt show leads to good horsesJan. 1714 Watch straw fed horsesJan. 249 Watch straw fed horsesJan. 3111 | To innsh embrodered states | 3012 course in Extension creasing | Dept. in- Jan. 313 DenverJan. 3111 ls by cor- Feb. 723 | ood roads bill | h- Dec. 26 7 .March 711 |
| Good drafters scarce mules Feb. 14 . 8 Statistics on horses and mules Feb. 14 . 14 Value of good stallion Feb. 14 . 14 Horse prices hold level March 7 . 20 Selection of the stallion March 14 . 12 Look to stallion license March 21 . 16 Preparing horse for spring work March 21 . 16 Stallion registration April 4 . 14 The spring stallion show April 4 . 14 The spring stallion show April 4 . 14 | Porch furnishingsJun Summer care of stoveJun How to cause geraniums to branch outJun Jun | 7 30.12 More engineering 3 A. C | t K. S. Harch 14. 3 Harch 14. 3 Lars. March 14. 3 Lars. March 14. 12 King. March 14. 19 Harch 21. 16 | ounty on gopher scalps ligibility to school board og tax law Free seed graft' Inforcement of law regardi handling of meat in interste trade. 'respassing chickens. tallion in pasture | May 9 9 ng ateMay 16 3May 23 5 |
| Percheron pedigree question May 2.5 Watch the work horses. May 2.8 Common horses a drag May 2.8 Working the draft stallion May 5.8 French draft and Percheron horses. May 16.5 May 16.5 May 16.5 May 23.6 | To remove traces of smoke from a room | e 1312 College credit for far e 1312 Appoint of Rev. Walt Concerning commence e 1312 Music in the country | m work April 4.23 Ider Burr April 11.3 Cement day | lew stallion licenses liceders' demand relief lovernment selze short welf goods. reight rates on exhibits law concerning unregistes bull. LIVE STOCK. Water for stock | Oct. 31 3 Nov. 7 9 sht Nov. 21 3 Nov. 28 8 red Dec. 5 7 |
| Chicago's team requirementsMay 3010 Co-operative improvement of horses | cherries. Jur Petticoats that one can't see through. Jur Teach children order Jur Magic writing. Jur Substitute for tape for blouses. Jur What to do with a hat box. Jur | e 2012 Carver lectures in Ki Graduates back to fa e 2012 Ovation to Presiden' e 2012 Preachers study ag e 2712 Model mill opened . e 2712 Rural education wor paigns." | rm April 25 . 16 Waters May 16 . 3 ciculture May 23 . 3 k May 30 . 3 k tural cam- | Just | unJan. 310Jan. 1010 oveJan. 1013 liveJan. 1013 |
| exhibition purposes. Feed work horses carefully July 11.10 Raising horses in Western Kan- sas. Buying horses for British army. Sept. 26.10 Opportunity of American stock man | The jug method Ju To fix flower holders Ju To remove fruit stains from linen. Ju Corn popper aid in camping. Ju Oil your clock Ju Woman's judgment of woman Ju | y 1112 oners. y 1112 Requirements to be of Gamma Pi Gam Waters will return (K. S. A. C. commenc Instructors will visit institutes. | members June 13 3 to Kansas. June 13 3 ement June 20 3 t teachers' June 20 3 | tina. Silage-fed stock. Live stock insurance Live stock sanitary rules. Moving stock to North Dako System in selling stock. Succk farms very fertile. Business methods sell stock Statistics on imported anims Handling vicious buils. | Jan. 24. 10 ta. Jan. 31. 4 Feb. 14. 3 Feb. 14. 5 Feb. 14. 6 als. Feb. 14. 13 |
| Cleaning up the cheap of the consumed by horses. American-bred horses Nov. 7. Feed consumed by horses Nov. 7. Freed consumed by horses Nov. 7. The full use of farm horses Nov. 7. Stallion law brings improvement Nov. 21. Age to breed fillies Nov. 21. Age to breed fillies Nov. 28. | Bestroying black criticals Window curtains Planning your day's work Salad oil from nuts Au To renovate dark serge Au To sew lace on centerpiece Au | Y 25 . 12 Pacific Exposition Y 25 . 12 K. S. A. C. best in Eighth annual conf at K. S. A. C Eighth annual conf at K. S. A. C Eighth annual conf at K. S. A. C Eighth annual conf at K. S. A. C. Eighth annual | the worldJuly 18 3 erence heldJuly 25 3 ibitsAug. 1 3 respondenceAug. 8 3 schoolsAug. 29 2 | Starting in live stock. Why raise live stock Watch vicious buils Demand for pure-bred stock. Live stock industry depen on raising necessary crops. Need revival of live stock building in Middle West. | dent |
| Oats and corn for horse feed. Dec. 5. Cost of keeping a horse. Dec. 5. Improvement of draft horse. Dec. 12. Horse improvement in Jewell County. Dec. 12. | To get rid of cockroaches | g. 813 Pres. Waters of K. ports to Philippin with 520 Will not find sale tions | S. A. C. re- esOct 17 3 for inven- | ing of live stock | April 43 ckApril 411 nearApril 412April 414 iiyApril 2510 May 2 3 |
| Cane for brood mares Dec. 18 Good stallion increase Dec. 18 Cottonseed meal for horses Dec. 26 HOUSEHOLD HINTS Old bath towels Jan. 3 To prevent fires Jan. 3 Guarding against measles and scarlet fever. Jan. 10 To clean spots with gasoline Jan. 10 To extract a spilnter Jan. 10 To keep a veil nice Jan. 17 | International Congress of Farm Women | pt. 1211 pt. 1211 pt. 1910 | about \$70Dec. 195 schoolsDec. 262 /ork of the /ork of | Selling pure-bred stock About prize winning stock Camera sell live stock Live stock students back farm. Wide awake stock breeder Kinds of pedigrees Sell Hindu bulls County agent and live stock landing dangerous bulls. | July 1110 July 182 July 1810 kJuly 1810 |
| To thread a machine needed. Jan. 17. To remove lines from stamped goods. Jan. 17. Advice to those who crochet. Jan. 17. Handkerchiefs with colored borders. Jan. 17. To roll a narrow hem. Jan. 17. To turn a hem in heavy goods. Jan. 17. | Watch baby's milk | pt. 1911 pt. 1911 pt. 2612 pt. 2612 pt. 2612 pt. 2612 roclean eggs Rules of good past | uts soaking Jan. 24.14 rom popping Jan. 24.14 aked cake Feb. 7.12 ry cook. Feb. 7.12 gs Feb. 7.12 | Handling dangerous bulls. The boy's interest in live st Compulsory recording of the fers. Live stock freight claims if Feed the colt. Live stock and war. New stock commissioner Kansas short on live stock why have runts? | law . Aug. 1 9 Aug. 8 10 Aug. 29 13 Sept. 5 3 |
| Some hints on dyeing. Jan. 17. Covering for the bath tub. Jan. 17. Russian crash for dresser scarfs Jan. 24. Save the coal bill. Jan. 24. Choose plain wall paper. Jan. 24. Give baby plenty of water. Jan. 31. To warm a kitchen floor. Jan. 31. | 8 About ladies' apparel | oct. 1012 To keep kettles cless To remove tea chinaware To open a cocoanu | Feb. 21. 8 es of bread. Feb. 28. 16 n March 14. 18 stains from March 14. 18 t easily March 14. 18 | Why have runts? Elling live stock specialist. Help farmers to good stock- Furnish registry papers pro ly. Use of camera in selling stock. Can ship Illinois cattle Give the fall calf a good shippers should demand | mpt- Oct. 1010 live Oct. 1010 Oct. 17 3 |
| What to do for burns | To moisten pie crust with min. To destroy weevil in seed peas. (12 Filling the housewife's silo (13 Rejuvenate the worn bedspread.) 8 Softening hard water A little talk on soaps | About cooking fish | March 14 . 18 starch | cars. Fall care of stock On getting into live stock "Get cow, pig and hen" Profits in wintering cattle Borrowing to buy cattle Getting into cattle Use of term "thoroughbre | Oct. 17. 12 Oct. 24. 12 Oct. 31. 12 Nov. 21. 3 Nov. 21. 6 Nov. 28. 3 Nov. 28. 4 Nov. 28. 9 Dec. 19. 5 |
| To make tips for shoe laces. Feb. 28. To wring sheets and tablecloths. Feb. 28. To keep patterns on the cloth. Feb. 28. To wash and dry woolens. Feb. 28. Medicinal virtue of lemons. Feb. 28. Correct sitting position. March 7 | 16 To keep out moths 16 To keep clothes from freezing 16 How to clean a sick room 16 How to make washable covers 16 for sofa pillows 17 To whiten unbleached table | Iov. 28. 12 Kitchen the mos room | gg beater in | Wide possibilities open to y farmer. MACHINERY AND E Pumps for well irrigation Farm machinery and powe The manure spreader Power for lighting and star Adjusting corn planter Alfalfa mills sell low Farm electric lights Implements for crusted se | Dec. 2610 QUIPMENTFeb. 21 4 erMarch 7 9April 11 5 rting.April 1117 |
| Living on 20 cents a day. March 7. The spring styles | To wash sateen | Dec. 1215 Dec. 1215 Dec. 1215 Dec. 1215 Dec. 1215 Dec. 2611 Dec. 2611 Dec. 2611 To keep a cake m Value of heating a Dec. 2611 To make good pie To fry fish | ble diet. April 25 . 14 ion May 2 . 12 eting May 9 . 10 lemon May 9 . 10 lemon May 9 . 10 crust May 9 . 10 s before using May 9 . 10 | Farm electric lights Implements for crusted serious pointer on running binde Hints on binder operation Lightning rods again Lightning partial to unrabuildings There are few of his kind Lifting water 200 feet Does Mrs. have a good wa | June 13 5 June 20 7 odded July 11 9 |
| To steam out splinters. March 14. Disciplining baby. March 14. To clean lamp burners. March 28. To scour ivory knife handles. March 28. To color faded blue garments. March 28. To remove old paint and varnish. March 28. To remove fresh paint smell March 28. New use of painter's brush. March 28. To keep moths from woolen articles. March 28. Indian meal for the hands. March 28. Indian meal for the hands. March 28. | 20 Grew 2,500 business of appreciate 20 Sub-irrigating vegetable garden. 20 Sub-irrigation in Clark County. Pumps for well irrigation | Jan. 31. 6 Feb. 21. 4 Feb. 21. 4 Feb. 14. 5 Feb. 14. 5 Feb. 14. 5 Feb. 21. 4 | May 9.10 May 9.10 May 9.10 May 16.12 May 16.12 May 16.12 May 16.12 Strainer May 23.10 May 23.10 | Power for farm Ease in changing wagon Irrigation by windmills. Block and tackle for butch Truck motor not plowing Geary farms lighted Lighting dump head from Webbing for treating | boxes. Sept. 12 9 Sept. 19 3 ering Sept. 19 3 motor. Oct. 3 5 Oct. 3 7 well. Oct. 3 9 |
| holes | 20 Irrigation Congress meets at 20 Scott City | Aug. 1 4 Cakes | ourn brightly. May 23. 10 from kitchen gs May 30. 7 gs May 30. 12 taste in bolled May 30. 12 | One windmill helps far come | m in |
| To brighten carpets | 20 Johnson grass and Sudan grass. 20 Law of Kansas on Johnson 20 grass. 20 Johnson grass in Greenwood 20 County. 21 Inquiry concerning Sudan and 22 Johnson grass. 23 Habits of Johnson grass. 24 KAFIR. | Oct. 10. 5 To keep cake fror To kill odor of re Add coffee to sto To cut butter To cook peas Dec. 12. 8 Dec. 19. 4 Making lee cream | tcher | Clean up barnyards now Use of manure on farm I Avoid letting manure ac late in barnyards Green manuring. Rye for green manure | |
| Allow children to helpApril 11 | Kafir seed for 1914 crop | | | | |

| Subject Date Pag Rotation and manuring | Keiffer pears do well | Subject Date Page Chicken Yard and House. Keep the grit box filledJan. 316 Keep clean litter for hensJan. 1014 Paint roosts with hot tallowJan. 1014 Poultry houses and fixturesJan. 1716 | Subject Date Page No egg-producing feedFeb. 1420 Advantages of green feedFeb. 1420 Give chicks plenty of waterFeb. 210 Chickens should have plenty of |
|---|--|--|--|
| Corn and potatoes . April 25. Marketing charges . May 2. Costs of marketing . May 2. Market for sale of cream . June 20. Market cattle statistics . June 20. 10. 10. 10. 10. 10. 10. 10. 10. 10. 1 | Insurance against frost | Coop for hen with chicks Feb. 7.29 Covered run for chickens Feb. 7.29 Inferior fittings for hen house. Feb. 7.32 Keep warm place for chicks at night | grit, etc |
| The meat situation Jan. 3. (Neighborhood meat club Jan. 10. 10. 10. 11. Investigate meat situation Jan. 24. (Argentine meat shipments Jan. 31. E. Consumers cannot expect cheap | Rejuvenating old orchard. May 9.5 Canker difficult to control. July 4.11 To boost orcharding. July 18.3 Winter apple storage. Sept. 26.5 The 1914 apple crop. Sept. 26.5 New orchard movement. | How to make coops cat and rat-proof | Place feed on clean surface. March 14.22 Keep charcoal before chicks March 21.22 Keep charcoal before chicks March 21.22 How to feed the male |
| meats. Jan. 31. 12 Mutton to be scarce Jan. 31. 13 Future of meat business. Feb. 21. 15 Meat at any price. Feb. 28. 28 Decrease in meat supply Feb. 28. 28 Meat shipments Feb. 28. 15 Shipment of beef from Argentine. March 7. 14 | bits. Nov. 7. 4 PASTURES AND PASTURING. Early pasture crops | themselves | Give chickens pienty of water. April 4.24 Cost of feeding laying hens. April 4.24 millet seed for hens |
| Americans not pleased with Argentine BeefMarch 1412 Brand foreign meatsMarch 2814 Still shipping beef from ArgentineMay 305 | Tame grass for pasture | proof. June 6.12 Clean nest boxes Aug. 1.14 How to care for the chicken yard. Aug. 1.14 Induce fowls to change roost- ing place. Oct. 24.10 Time to clean poultry houses. Oct 24.10 Keep chickens comfortably | Green feed secures fertility April 2517 Beware of over-feeding young chickens. April 2517 Salt for chickens May 214 Keep drugs from healthy chickens. |
| Beef prices tend upward. July 25. 30 Outlook for beef, pork and mut- ton. Aug. 22. Demand for veal increases. Oct. 24. 12 Increased meat production. Nov. 7. 5 | Pasture conditions good July 2510 Western Kansas pasturage charges | noused | ens. May 2 .14 Keep chickens busy and hungry May 2 .15 Result of throwing soft chicken feed on ground May 9 .12 Oats for chickens May 9 .12 Variety of feed for poultry May 9 .12 Balanced ration for fowls May 9 .12 Push the young stock May 9 .12 Corn silver for poultry May 9 .12 |
| Farm meat curing | Scarcity of native pastureOct. 246 | How to prevent roup. Feb. 14. 20 Cold and remedy. Feb. 21. 20 White diarrhea in chicks. Feb. 21. 23 To prevent white diarrhea. March 7. 23 Causes of leg weakness. March 28. 22 White diarrhea in chicks. April 4. 25 White diarrhea in chicks. April 4. 25 To get rid of lice. April 4. 25 | Corn sliage for poultry. May 16. 10 Value of alfalfa for poultry. May 16. 10 To break up setting hens. May 23. 11 Health of chicks depends on proper feed. May 30. 11 Milk for chicks. May 30. 11 Eggshell-forming feed. May 30. 11 Wheat for poultry. June 27. 13 |
| MILO. Cane and milo seed wantedJan. 3. 4 Kansas milo grown in 1913March 14. 3 Milo and kafir for fattening hogs | Waters to PhilippinesApril 43 Appointment of Rev. Walter Burr | A new remedy for lice | Feeding fowls June 27.13 Feed chickens plenty of green stuff. July 4.12 Hens should have plenty of bulky food. July 4.12 Use hopper for feed. Aug. 1.14 Do not overfeed. Aug. 8.12 Wheat for chickens Sept. 5.19 |
| Farmer improves milo by selection | ver & Rio Grande April 11 3 Death of Walter Wellhouse May 9 3 Lippincott honored May 3 3 Dietrich dies in Idaho May 30 3 Death of James N. Fike May 30 3 Retirement of C. P. Stone June 6 3 Death of Lou Burk June 13 1 W. L. Blizzard will judge draft | Chicken pox. Oct. 31. 10 For fleas and mites | Charcoal good for chickens . Sept. 19.12 Lay up a stock of green feed for winter . Oct. 3.16 Winter rations for chickens . Oct. 24.10 Economize on feed bills . Oct. 24.10 Save alfalfa leaves . Oct. 11.10 |
| Where licorice comes from Jan. 10. 17 A Burmese marriage superstition Jan. 10. 17 The smallest beast of prey Jan. 10. 19 Impure air dangerous Feb. 14. 9 | horses | ner ducks | Coal ashes for chickens |
| The dangerous hatpin Feb. 14 19 The world's seven Bibles Feb. 21 8 Efficiency for the home Feb. 21 11 Regarding wages of rural mall carriers Feb. 21 15 Kansas death rate March 14 11 Giving an elephant a bath March 14 11 About "Mary and Her Lamb" March 21 18 The boy and his morey. | cultural Society July 4. 3 Elling to succeed Bower as District Agricultural Agent Aug. 29. 3 Pelham as secretary of the State Board of Horticulture Aug. 29. 3 Mr. Kinzer resigns Sept. 19. 3 Sec'y. Houston to address Kansas State Board of Agricul- | Why some Runner ducks do not lay. March 21, 23 Proper feed for ducks, May 2, 14 Duck raising May 23, 12 Ducks cannot walk July 18, 14 Ducks need water for bathing Aug 22, 11 Runner duck breeding Nov. 21, 11 Indian Runner duck record Dec. 12, 16 | charcoal, bran, etc. Dec. 5 . 10 Roosting without evening meal Dec. 19 . 13 Incubation and Incubators. Order incubators early Jan. 17 . 16 Success with incubator Feb. 7 . 6 Tested incubators Feb. 7 . 24 Buy an incubator Feb. 7 . 29 Management of incubators March 14 . 22 |
| In Queen Mary's wardrobe. March 21. 18 Ten great inventions. April 4. 18 Messlah festival. April 4. 18 Should children work? April 4. 21 Chicken thieves shun A. H. T. A. April 11. 17 Eight methods of killing flies April 11. 22 | ture. Oct. 17. 3 Gillette capable judge . Nov. 28. 10 Secretary Houston to address State Board of Agriculture. Dec. 5. 3 Whitney, new secretary of Horticultural Society Dec. 19. 3 POEMS. Brad's bit o' verse Jan. 3. 14 | Indian Runner duck recordDec. 1216 Egg Records and Laying Contests. Egg laying contest, Result ofJan. 316 Egg contest at Storrs, ConnJan. 316 Record of White Leghorn henJan. 316 Some Chinese hens lay large eggsJan. 2416 Importance of time of year | hens |
| Santa Fe | My mother Jan. 3.14 In the land of let's pretend Jan. 24.14 Little mother March 21.18 A seed thought April 11.20 Father's other suit April 25.14 Oh, you May Day! April 25.14 Funston May 30.12 Round father's grip June 20.12 Chores June 20.12 | when eggs are laid | start. Dec. 5 .10 Incubator catalogs ready Dec. 5 .10 Incubator has made a place for itself. Dec. 19 .13 The why of incubator—advantages of artificial incubation Dec. 26 . 5 Poultry Topics—General. Remove sick birds from flock. Jan. 10 .14 |
| Orders issued by Union Pacific R. R. June 20. 14 Farmers' Elevator Organization July 11. 6 Blake's weather forecast. July 11. 7 Weather proof whitewash. July 11. 9 Rainfall in Kansas during June 1914. July 11. 9 College graduates farm July 18. 9 | Breeds and Breeding. | ber. Feb. 7.29 300-Egg hen has arrived. Feb. 7.29 Hens too fat to lay. Feb. 7.29 Weather regulates price of eggs. Feb. 21.20 Seventy-six eggs in January. Feb. 21.20 Packing eggs for hatching. Feb. 21.20 Resarding the egg famine. Feb. 21.20 Marketing eggs | Give the boy a chanceJan. 17. 18 Packers feed chickens sand to increase weightJan. 24. 16 Keep the hens busyJan. 31. 14 Poultry plant a school roomFeb. 7. 12 Better poultry methods by cor- |
| 1914. July 11. 9 College graduates farm July 18. 9 Stockmen's summer picnics July 18. 11 Coburn responsible for everything agricultural in Kansas. July 25. 3 Poison bran mash July 25. 4 now for fish literature Aug. 1. 7 To clean outlet pipe Aug. 8. 4 Why be neighborly Aug. 8. 5 Boys' and girls' photo contest. Aug. 15. 3 | Get books on "Care and Man- agement of Poultry"Jan. 17. 16 Study proper mating of fowls. Jan. 31. 14 Investigate qualities of new breedsJan. 31. 14 Poultry production big business Feb. 7. 3 Takes strong breeds to grow thriving chicksFeb. 7. 3 Breed from hens, not pulletsFeb. 7. 3 Why I breed Buff RocksFeb. 7. 4 | Regarding the egg famine Feb. 21.20 Marketing eggs Feb. 21.23 Cause for infertile eggs Feb. 21.23 Select dark place for hens' nests. March 7.22 Use of nest eggs March 7.22 Eggs for the farmer March 7.22 Cause of infertile eggs March 14.22 Get best eggs for hatching March 14.22 Get best eggs for hatching March 14.22 National egg laying contest March 14.22 | respondence. Feb. 7.28 Comb is indication of fowl's health. Feb. 21.20 Care for chicks during cold spells. Feb. 21.20 Facts about farm chickens. Feb. 21.20 Facts about farm chickens. Feb. 21.20 Poultry in high school Feb. 28.21 |
| Burr busy in "social service". Aug. 22. 5 War will benefit us | Single Comb Legnorns Feb. 7. 4 Barred Plymouth Rocks Feb. 7. 4 Buy cockerels early Feb. 7. 4 Why we raise White Wyan- dottes. Feb. 7. 4 Which is the best breed? Feb. 7. 4 | Getting winter eggs March 14.22 Egg production from large flocks vs. small flocks | February weather bad for young chicks. Raising geese for profit |
| trons. Aug. 29. 11 The charm of good English. Aug. 29. 11 Newspapers should interest country readers. Sept. 5. 24 Missouri suffered for lack of rain. Sept. 19. 3 Kansas rainfall during August, Sept. 19. 12 Drainage of overflow lands pro- | Light Brahmas as utility fowls Feb. 7. 15 Why White Rocks are the best. Feb. 7. 15 The why of the Leghorn. Feb. 7. 15 S. C. White Leghorns Feb. 7. 19 Mongrels do not pay Feb. 7. 19 Small breeds and egg size. Feb. 7. 19 Mature hens for breeding Feb. 7. 31 Ever popular White Wyan- | Gather eggs often April 1122 Gather eggs often April 18.16 Shipping eggs by parcel post. April 2517 My success in shipping eggs. April 2517 Value of eggs as food May 1611 Egg selling record for Lyon | Setting hens need exercise. April 18 16 Plums and poultry |
| gressing | dottes. Feb. 7 32 Buff Wyandottes. Feb. 7 32 Mating of breeding pens. Feb. 14 20 Breeding from immature fowls Feb. 14 20 Too many hens for one male. Feb. 14 20 New variety of fowls. Feb. 14 20 Barred Plymouth Rocks Feb. 14 20 Poultry that pays me best. Feb. 21 21 Get rid of weak, deformed | County. May 3011 Has size to do with egg production?June 6.12 World egg-laying contest at Panama ExpositionJune 1311 Egg-laying contest in Missouri. June 1311 Fresh eggs for family useJune 2011 Operate an egg carJune 2012 | chickens. June 6.12 Pullets should receive best of care. June 6.12 Make friends with your chickens. June 13.11 Swat the rooster June 13.11 Growing chicks must have exer |
| Rainfall over Kansas Oct, 1914 | Regarding haphazard mating Feb. 28.20 Regarding prize winners March 7.22 Observe the fowls closely March 14.22 Advantages of exercise for | Operate an egg car. June 20 12 Contest report for May. July 4 12 Improving quality of eggs. July 4 12 Facts about egg formation. July 11 14 Artificial fertilization. July 18 14 Co-operative egg association at Oklahoma. Aug. 1 14 Use egg candler Aug. 8 12 Double-volked eggs | Examine chickens to see if they have lice July 4.12 Chickens should have plenty of fresh air at night. July 4.12 The hen that lays in July July 11.14 Warning agging left with the should have been should have plenty of the should have been shoul |
| Fall care of lawn | A new breed for the farmer March 11.22 Regarding best breeds March 28.22 The best layers March 28.22 Selection for breeding stock April 11.14 To build up • an egg-laying | Summer egg loss preventibleSept. 1212 Market eggs during the winterOct. 1014 Find suitable market for eggsOct. 2410 Why bad eggs? | Hints in dressing poultry. Aug. 1.14 Give pullets best of care. Aug. 1.14 How to make hens molt early Aug. 1.14 Fowl's comb should be red. Aug. 8.12 Get rid of old hens. Aug. 8.12 Market poultry fat Aug. 8.12 |
| Statistics on horses and mules. Feb. 1414 Oat farming | Marketing or male bird after hatching season | How to raise the standard of egg production. Nov. 21. 11 Contest records broken Dec. 5. 10 Ducks break egg record. Dec. 12. 16 Report of National Egg-Laying contest. Dec. 26. 12 | Do your work well |
| OLEO. June 27. 3 OLEO. Increase in output of oleoJan. 3.12 Test to determine oleoMarch 7.5 The butterine caseApril 18.12 Oleo questions and answersApril 25.18 Oleo manufacturer sentenced. | Sell hens not needed for breeders. June 27.13 Sell surplus roosters June 27.13 Selecting hens for breeders. June 27.13 Time of year to buy good breeding stock. July 4.12 Stock at heaven stock. | Clover or alfalfa for fowlsJan. 3.16 Advantage of dry mash over the wet mashJan. 3.16 Give chickens plenty of waterJan. 10.14 Oat-sprouts for chickensJan. 10.14 Warm breakfast for bene | Have regular time for chores. Oct. 2410 To boost poultry. Oct. 313 Poultry should pay for more than grocerles. Nov. 2111 Raise broilers to counteract high prices of beef. Nov. 2811 Moulting period in fowls. Nov. 2811 Fall sale of cockerels. Nov. 2811 |
| penttentiary | bred fowls July 11 . 14 Keep your early pullets | variety of feed to produce eggs. Jan. 17. 16 About feeding sprouted oats. Jan. 24. 16 High prices of feed Jan. 24. 16 Some facts about poultry food. Jan. 24. 16 How to supply lime Jan. 31. 14 Don't forget the meat ration. Jan. 31. 14 Importance of balanced ration. Feb. 7. 17 | War to affect prices of poultry and eggs |
| Grew 2,500 bushels of apples Jan. 3. 5 New spraying schedule Jan. 31. 7 Kansas orchard doctor busy. Feb. 14. 19 Latest spraying schedule Feb. 28. 8 To improve next season's fruit | Early layers Nov. 7 . 12 Early winter laying | Cottonseed nulls in rationFeb. 7.25 Follow hen's method of feeding chicksFeb. 7.25 Sour milk for hensFeb. 7.29 Poultry fattening establishment in connection with creamery.Feb. 7.29 Milk to make hens lay | About poultry exposition at San. 17.16 Francisco. Jan. 24.16 Fine weather for poultry shows.Jan. 31.14 Tendency of shows in the past. Feb. 7.4 Kansas State Poultry Show. Feb. 7.29 Kansas poultry federation Feb. 7.29 Leavenworth poultry show. Feb. 7.29 Contests at Buffalo poultry |
| New idea in fruit growingFeb. 2813 | Must have some well defined ideas | | show |

| Subject Barred Plymouth Rock club. Kentucky and Tennessee roost | C THE STATE OF | Subject cess. Some of the things worth in making school plan | noting July 25 8 | Subject County. llo for taking care of ne year's feed. lio widens farmers horizon | | Subject seding sweet clover in rychy he prefers to raise sclover in rows clover varieties described | Dec. 19., 5 |
|---|---|--|---|---|---|--|---|
| day. Push young stock for fair. Convention of American Poult Association. Take your chickens to the fasend your fowls to the Tope | July 412 ir.Aug. 114 | high schools | Aug. 1 3 E. C. C. C. C. C. School- | tio widens farmers' horizon conomic value of silo oming of the silo egarding use of alfalfa silo ory fodder in silo ory fodder in silo | in Jan. 10 4 D | isking stalk ground ultivation conserves moist reaking sod in Gray Coun | HODS. Jan. 31 4 April 412 .tyApril 1111 |
| Fair. Panama-Pacific Exposition promium list ready Poultry at the Topeka Fair. Kansas State Poultry Feder | re- Sept. 519 Oct. 316 | house | n ruralNov. 21 3 s | in silo | Jan. 105 Em.:Jan. 1016 U | arly disking and plowing se of summer fallow lowing to save moisture. elieves in deep plowing. all plowing for insect co | June 13 5 |
| torium | Nov. 2111 Nov. 28 5 Nov. 2811 | Now neighborhood scho Big idea in farmers' sc School children make survey of district | olsNov. 28 2 hoolsDec. 26 2 a socialDec. 26 3 | silo. Juncut forage in pit silo Illos in Reno county | March 715 F March 14 5 F March 21 9 | all plowing for insect co- all plowing again | |
| show. Entries for Central Kan Poultry Ass'n show close. Kansas State Poultry Show | sas Dec. 1216 Dec. 1216 | Cane and milo seed w Seeding rye and oats it Kafir seed for 1914 cr Seed for spring planting Demand for spring see | antedJan. 3 4 1 n cornJan. 3 8 2 opJan. 17 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | Teeding from a silo | ney. March 2819 F | all plowing east and cen | tralNov. 28 7 |
| remiums. Kansas State Poultry Federat show at Auditorium Turkeys. Grasshopper fed turkeys | ion Dec. 2612Jan. 1716 | county | tigomeryJan. 31 3 seedJan. 31 8 g goodFeb. 716 | Plastered 2x4 silo | Way 9 7 C | Pall disking of sod | armApril 1123 |
| Pure-bred M. B. turkeys grades. Turkey drives in Texas Grasshopper plagues help t key raisers. Points in turkey culture | Feb. 729 Feb. 1420 | Sweet clover seed from tucky | m Ken- Feb. 213 of seedsFeb. 2810 cropsFeb. 2810 | Why continue to waste? Way to study the silo Silo observations Farm investments Silo for every farm | June 27 2 1June 27 3June 27 3 | Starting catalpa trees And evergreens An evergreen wind-break Frees for Western Kansa | Feb. 14 3 Feb. 21 4 sFeb. 28 4 |
| Protect turkeys from storms. No turkeys at Topeka St Fair | ateOct. 316 | Seed testing pays Free testing of seed Purchase of alfalfa see side buyers | | One of the greatest advants of silo What kind of a silo? The pit silo Silo badge of honor | ages June 27 3 June 27 3 June 27 3 | Evergreens. Rules for planting windbr Planting Maple, Persimmo Sassafras seed | eaks.March 1411 on andMarch 2112March 2811 |
| Cheese Croquettes | Jan. 17 8 Jan. 2414 Jan. 2414 hJan. 31 6 | Seeds may be sent b post | April 1118 | Seven experimental silos i trated | June 27 4 June 27 8 June 27 8 | Trees beautify home Do not prune evergreens Planting trees in Kansas Care of young trees Shade trees for Reno CO | April 1123 SApril 183April 2519 untyNov. 285 |
| Good imitation of pistar flavoring. Home-made soap. To roast a flank steak | Feb. 712 Feb. 726 Feb 21 8 | Carbolic acid for milo erita. | and fet- | The season's silo outlook Number of silos in U | July 4 7 nitedJuly 4 8 | Why trees die in Reno co Trees for West Central K VETERINA Treatment for heaves Ringworm on cattle | ansas. Dec. 19. 5 MRYMarch 2813March 2814 |
| New way to prepare a n loaf. Pleasing variety in the way | neat Feb. 2816 y of Feb. 2816 | Better seed wheat Free seeds again Seeds wanted for catt Should test seed corn Poor seed again Free examination of se | h cropJuly 115 | four silos | July 119 onJuly 1110 Aug. 8 2 | Splint and distemper ment | April 414 April 116 April 258 April 2511 |
| St. Patrick's cream Corn good food for men Boston brown bread | Feb. 2816 March 716 March 716 March 2118 | The seed of sorghums Turkestan alfalfa seed Get seed before hard | Oct. 3. 4 | acre. You need a silo | Aug. 8 7 Aug. 15 3 Aug. 15 4 Aug. 15 4 | Cows sick on wheat pas Scours in little pigs Prevention of navel ill A remedy for bots | May 2 8May 9 8May 16 6 |
| Odd little sponge cake French meat loaf Honey popcorn balls Honey ger mustard | March 2121 March 2820 April 1120 | No "pure" seed label sas. Marketing the seed of Seeds should be to | miloNov. 14 6 ested for Nov. 21 6 | Do not overlook the silo year. Gas in pit silo dangerous. Through use of silo 35 will produce much feed | this Aug. 15 4 Aug. 22 4 acres | To remove warts from teats. | cows'June 6 8June 13 2June 2010 |
| Chili con carne Recipe for government wi wash Buttermilk biscuit Fresh strawberry flos | May 910 | Treating seed of swee Farm crop seeds Kansas pure seed pri | t cloverDec. 55 Dec. 193 merDec. 194 fallDec. 195 | Use of water in silo filling The silo as an economizer. Value of pit silo Why build silos Depth and diameter of sil | Aug. 29 4 Sept. 5 3 Sept. 5 6 loSept. 5 6 | Cattle bloat | TJan. 3 8 |
| island | June 1312 June 1312 | Anti-cholera serum . State control of serum Proper place to injec | | Silo good investment for farmer | dairySept. 12 7Sept. 19 3 wSept. 19 3 tsSept. 19 6 | The yield of a single swheat | han in Jan. 24 8Feb. 720 |
| To preserve berries whole. Strawberry jam. Cherry butter. Berry muffins. Fruit biscuits. Plain water ice Pineapple water ice Passparry hombe glace | June 1312 | Serum manufacture Personality in serum Care in serum makin Selection of serum | making | Pit silo is satisfactory First silo in Michigan 187 Capacity of silo Needs another silo Co-operation in silo bu | 75Oct. 10 8 Oct. 24 5 Oct. 24 5 | Making hay from wheat Wheat and soil fertility | tApril 18 8 |
| Steamed raspberry dumpl | insJuly 1112 | | ts | co-operation in sile but and filling. The disadvantage of a sile | quare Nov. 7 4 | wheat and flour tests. Wheat condition high Record breaking wheat Get ready for wheat h Conserve the wheat cro Wheat outlook in gene | |
| Chicken with rice and per Apricots in Jelly | Aug. 112 Aug. 2910 | Silage for sheep Sheep as meat prod mals | ucing ani- Jan. 3111 .bsMarch 2815 | Reinforcing concrete silos Silos at Panama-Pacific. Build silo for summer use Pit silo dangers | Dec. 12 9 eDec. 19 8Dec. 26 9 | Wheat vs. other crops. Argues for early prepa. Selling and sowing Wheat acreage in Thom | June 6 6 rationJune 13 3June 13 3 nas CoJune 13 3 |
| Canning peaches without s | ugar Sept. 1911 | Regarding sheep raise Dogs and mutton su New book on sheep What breed of sheep | pplyJuly 11 4 feedingJuly 11 4July 11 5 | Soil conditions Potato improves soil printing tivity. Humus, the life of the solutions | roduc- Jan. 247 ilJan. 2410 | wheat produced on wheat production Arrange ahead for wheat ing Dollar wheat possibility Map showing annual | June 13 3 |
| Sliced cucumber and pickle. Raisin sandwiches. Tomato sandwich. Banana sandwich Farm meat curing Turkey stuffing | Nov. 715 Nov. 714 Nov. 145 Nov. 2112 | Farm flock pays Opportunity to start Sheep on eighty-acre Why not feed some Karakules in Kansa | Aug. 8 | How to supply humus Soil robbing vs. soil build Rough land won't blow | Jan. 3113 dingFeb. 14 8Feb. 1411 | Early disking and ploy Metal bin for storing Everybody talking whe | wingJune 13 5 wheatJune 13 6 atJune 13 6 |
| Farm meat curing Turkey stuffing Economical table syrup Apple marshmallow pie Fried parsnips. Cider in roasting Hot potato salad Scalloped onlons. Delicious sour cream pie. | Dec. 1215 Dec. 1911 Dec. 1911 Dec. 1911 Dec. 1911 | Sheep for the small | farmerNov. 710 | soil? | oilsFeb. 21 4 March 21 9 to soil.April 413 | Regarding next year's Regarding talk about b | cropJune 13 6 ig wheatJune 13 7 |
| Caramel rice pudding | Dec. 2611 | Sheep to test various Sheep cost nothing of SII Cane and kafir for | AGE. silageJan. 34 | Storage and use of soil ture. Humus and soil fertility Liming soil Soil washing Truth about soil analys | mois- May 26 May 163 May 165 | Twenty-one Kansas whe Pointer on stacking w | eat crops.June 207 heatJune 2014 |
| Landlord and tenant a: Landlord and tenant as: Renters having difficulty cure farms. Secret of the landlord and ant success. Tenancy hurts sale produc | Feb. 21 3 | Amount of sliage to Feed horses silage of Silage for sheep | cautiouslyJan. 322 Jan. 107 Jan. 108 ennsylvania.Jan. 108 | Soil need not blow Soil survey of Cherokee of Bulletin printed in Germ | county.Sept. 123 | Advantages of stack ing". Lookout for higher pr Stacking is storage. Hold the wheat | icesJuly 4 2 July 11 3 |
| Improve principal roads | firstJan. 17 Jan. 31 roadsFeb. 141 | Experience in feeding Weed seeds in silage Silage from sugar because of the control of the contr | Jan. 10.11 Jan. 10.14 g silage. Jan. 10.16 e killed. Jan. 24.9 eeet tops. Jan. 24.9 tover. Feb. 7.3 | The soil survey No need worrying about SORGHUI Sorghums 'safe and sure Value of sorghum crops i | Jan. 10 8 | Yields of wheat and or Reserve wheat seed . Hold wheat for better Benefit of pasturing v How to retain moistur | ats nightJuly 11 5July 11 7 pricesJuly 18 6 wheatJuly 18 6 |
| Pointers on road work The log road drag Farmers' good roads clu Road making by mail | Feb. 212 bFeb. 212 March 14 | Price of silage Feeding frozen silage Silage for horses Silage replaces past | eFeb. 1423 eFeb. 214March 75 ireMarch 2110 e cropApril 118 | ham county | Feb. 14 4 | Prepare as large ac possible | reage asJuly 187 eldsJuly 1811 pricesJuly 253 wheatJuly 253 |
| About permanent road w Good roads demonstration Dragging dirt roads Road work that counts | orkMay 30 nJuly 41 July 11 Sept. 12 | Kafir silage wins Silage for summer Oats for silage Alfalfa and rye sila | feedingMay 93 | Never-failing sorghums. Plant early and thin Kind of grain sorghum to Tests with sorghum Likes row planting o | Aug. 8 4 | No gain without effor To investigate the wheat | price ofJuly 25 3 |
| Good roads improve social ditions | Dec. 12 Dec. 12 oadsDec. 12 gDec. 12 | Red clover silage On catch crops Alfalfa for silage Silage for horses Beet tops for silage | May 23 5 ge May 30 5 | ghums | Aug 15. 3 | Fumigate wheat bins. Wheat in pork production for | Aug. 15 ctionAug. 16 wheatAug. 82 |
| Country preacher and control of the | ountry Dec. 12 esDec. 121 | 2 When to feed silage Feeding of silage | July 4 2 | Importance of sorghums Sorghums in Butler Importance of grain sorg Advantage of growin ghums Is cured sorghum poiso | rhums. Sept. 26 6 | prices_indicate hold | groundAug. 8 3 groundAug. 8 3 rol wheat ling prof- |
| Get road making on b basis | Dec. 121Dec. 121Dec. 121Dec. 121Dec. 121 | 3 Elevating sliage 10 Charge of cutting s When to put up si Siloing of immature Crops should be m | cropsAug. 8 6 | Pasturing frosted sorgh Sod crops in Wichita C | numsNov. 1410 | Wheat for milk cows Preparing for wheat . Wheat farming in | Aug. 15 3 |
| able | minous | The value of dry ma | ut corn for | Sudan grass in Harvey Sudan grass and sorghu Johnson grass and Suda | County. Oct. 3 5 ms Oct. 10 6 in grass. Oct. 10 6 | High prices promised Observe fly free date. Save the straw | Aug. 22 3 Aug. 22 4 countyAug. 22 5 |
| Bread from stones Reans for Western Kans | asMay 2 | 7 silo | to construc | Sudan grass for forage Sudan grass in McPhers County | Oct. 24 5 | Preparing the ground Early preparation ad Is plowing better than How to get your seed Save seed wheat | visableAug. 22 6 n diskingAug. 22 7 l wheatAug. 22 7Aug. 23 3 |
| Rotation for Colorado I. Cronving methods for M Rotation essential for all SCHOOL New life for the old schools to the country. | oolroom. Jan. 3 | 6 Silage for horses . Figuring value of s 18 Avoid silage cutter Value of kafir sila | llage per ton Sept. 5 accidentsSept. 51 geSept. 12 | Johnson grass Sweet clover question. | OVER. Feb. 1423 | Prepare for 1915 when a preparing the seed by Sowing wheat in Dec. From an old friend. To farmer holding wheat the seed of the | at cropAug. 29 4 edAug. 29 7 atur CoAug. 29 7Aug. 29 7 heatSept. 5 3 |
| Movable schools for now | womenFeb. 21 Feb. 28 | silage and soil fer Silage and soil fer On watering silage Watering roughage | tilitySept. 12 Sept. 12 Sept. 26 e for silage . Oct. 31 | tucky | through- March 710 er with | What experiment st done for wheat gr dustry Weedy land for whea | stureSept. 510 tation has rowing inSept. 12 3 atSept. 12 4 |
| from Emporia Normal Agriculture in county schools mbitious but confident | highMarch 14 March 14 Yosleyan | 3 Late crops for \$10 Silage as summer Regarding waterir silage The feeding of for | feedOct. 24 g of fodderOct. 31 Ider sliageOct. 31 | 7 Sweet clover for hav Sweet clover and alfalf Sweet clover again 2 Sweet clover in several | Tuno 6 | cron | on which sept. 12 7 g methods. Sept. 12 8 pects Oct. 10 3 seed wheat. Oct. 24 7 |
| Business College | erlooked | 18 Siloing immature | | Harvesting sweet clover Several years necessary sweet clover Sweet clover hav and n Sweet clover for Kansa | pastureAug. 1 | 6 Corn land for wheat 4 Kansas' 1914 wheat of No cause for alarm | on hand. Oct. 31. 3 wheat Nov. 14. 6 Nov. 14. 7 rrop Nov. 28. 3 Dec. 5. 3 op less. Dec. 19. 3 |
| Plosed for the summer School for rural leaders | uly 10 | Interest in silos | in Barber | Treating seed of sweet | cloverDec. 5 | next-years wheat cr | Op 1650Dec. 10 0 |

YOU SHOULD HAVE A COPY OF TOM BORMAN'S BOOK

"SORGHUMS: SURE MONEY CROPS"

YOU cannot afford to be without Tom Borman's great book—"Sorghums: Sure Money Crops." It is being sold direct to the public by THE KANSAS FARMER COMPANY. This book is designed to induce greater appreciation of the grain sorghums to the end that a greater dependence may be placed thereon for grain and forage. For the sorghum belt farmers it is intended to reveal:

1—Why he should grow more sorghums.2—How he should maintain and develop their usefulness.

3—How to make the most money from them.

Tom Borman says:

I confidently believe that a careful reading of what is printed in my book and observance of the recommendations presented, will aid in the development of a more prosperous agriculture throughout the sorghum belt.

READ WHAT THESE MEN HAVE TO SAY

From H. M. Cottrell, Agricultural Commissioner, Rock Island Lines: "I have read, three times, your book, "Sorghums: Sure Money Crops.' It is one of the most fascinating books I have ever read, and thoroughly practical. You have created a book that will be of permanent value to the farmers of the Southwest. It is so strong and so practical that I am certain that it will prove to be an important factor in helping the majority of the farmers of the Great Southwest to make more money, raise sure feed crops every year, and to establish more comfortable homes and better communities. You have always done good work. This book is the best work you have ever done. You should be proud of it."

From J. C. Mohler, Secretary of Agriculture: "Mr. Borman's book on Sorghums is by far the best volume on the subject ever written. This book may be regarded as a guide for the farmers in the sorghum belt. The book is a valuable contribution to modern agricultural literature, and is worth its weight in gold to any farmer in the great sorghum country."

From Charles M. Sawyer, Bank Commissioner, State of Kansas: "I have just finished reading your book, 'Sorghums: Sure Money Crops,' and want to congratulate you upon the comprehensive and entertaining way you have covered the subject. Your book should be read by every farmer and business man in the sorghum belt territory, for if the information it contains was utilized it would yield millions of dollars of increased profit to the farmers of that section."

From A. L. Haecker, the well-known Nebraska dairyman: "I have your good book on Sorghums and am much pleased with it. It is a storehouse of useful information on the subject of growing sorghums and making proper use of them. I am sure this book will be well received, and that you will have a good sale for it."

Mr. Borman's book is printed on a fine quality of book paper, is full of pictures and is neatly and substantially cloth bound, an othe price will be \$1.25 per copy. To KANSAS FARMER subscribers who renew their subscriptions, or for new subscribers, a copy of this book will be sent with a year's subscription to KANSAS FARMER, for only \$1.50, postpaid. The first orders to be received will be filled first. To order, fill out the coupon, sending your remittance by personal check, draft or money order, Make all remittances and address all letters to KANSAS FARMER, 625 Jackson Street, Topeka, Kansas.

KANSAS FARMER, TOPEKA

| RANSAS FARMER, IUPERA |
|---|
| KANSAS FARMER COMPANY, Topeka, Kansas. |
| Gentlemen: I enclose herewith \$1.50, for which please send KANSAS FARMER one year and a copy of Mr. Borman's Book on Sorghums, postpaid. |
| NAME. |

HE book is in great demand and you should have your copy before the first edition runs out. Mr. Borman is one of the best authorities on grain sorghums in the country, and this book is the last word on this subject.

Be among the first to profit by this remarkable book, written by a man who has achieved a reputation of being one of the foremost authorities on farming and kindred subjects in the country and who knows how to write in a clear, concise, straightforward manner. In this remarkable new book, Tom Borman, a well-known farmer of Kansas, whose word is final on farming in all its phases, says that with a larger acreage of sorghums for grain, feeding assurance can be greatly increased. In fact, that with the use of sorghums, there need be no feed shortage, and that sorghums and live stock, with a sane acreage of wheat, will make a farmer more permanently prosperous.

Every farmer should own this complete informative book, endorsed and recommended by the foremost farming experts throughout the United States.

Mr. Borman's new book is a work of great significance to every farmer. No farmer can afford to be without this book. It should be read and re-read by every farmer in this country.

SORGHUMS: SURE MONEY CROPS

By TOM BORMAN Editor of Kansas Farmer

is the concrete experience of a man and of hundreds of farmers who have made a lifetime study of this subject, and is now offered to you in book form at a nominal price. When you get this book, you will have, according to authorities, the greatest book on grain sorghums ever written. It is the world's authority on the subject and the tremendous scope of the book is indicated at a glance over the following chapter heads:

- 1-The Land of Grain Sorghums.
- 2-Development of the Sorghum Belt.
- 3—Grain Sorghums in General.
- 4-Grain Sorghum Yields and Values.
- 5-Sorghum Area Defined.
- 6—Grain Sorghum Farming.
- 7—Better Grain SorghumCrops.
- 8—Feeding Grain Sorghums.

Look over this list and note how many ways Mr. Borman has touched your own work, then sit down and fill out the coupon in the lower left hand corner of this page. Be among the first to get this monumental work. Send for this book now. It is essential that you place your order early, because we have no way of anticipating the demand. The books are going fast, and if you send in your order at once you will get in on the first edition. Do not wait until the supply is exhausted.

KANSAS FARMER CO., Topeka