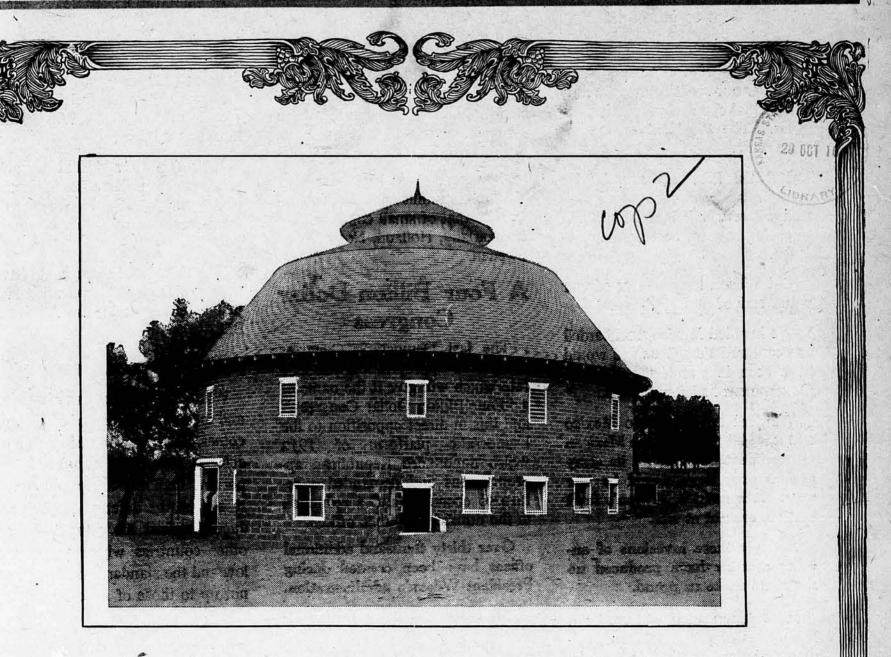
KANSAS FARMER For the improvement

Volume 54, Number 44. TOPEKA, KANSAS, OCTOBER 28, 1916. Established 1863. \$1 a Year



HE labor of caring for dairy cows may be reduced one-half by housing them in a carefully planned barn.

An expensive or elaborate structure is not necessary. An expenditure of fifty dollars a cow is enough to provide a sanitary, comfortable, convenient and substantial barn. This investment in a well planned barn will return good interest on the money.

It is of primary importance that the dairy barn be easily cleaned and be well lighted and ventilated. In making stalls, floors, stanchions, and mangers, the comfort of the cows should be considered. The barn should also be planned to save steps in feeding and in caring for the milk.

It is easy to make serious mistakes in building a barn and for this reason much thought and study should be given to the planning before starting to build. G. C. Wheeler KANSAS FARMER

The "War" Catch-phrase and the Falsity of It —The Real Issue

The Democratic campaign has been framed on the catch phrase, "Wilson kept us out of war."

It is not true, and is absolutely at variance with facts.

Under our constitution, the only power that can declare war is Congress. The President cannot declare war.

But the President can, by his policy, place our country in a position where war is inevitable if the opposing country accepts the challenge.

Did Wilson keep us out of war with Mexico?

We invaded Mexico, bombarded and captured Vera Cruz and would have been in war if the Mexican Government had fought back.

We sent an army into Mexico and it is still there. If the Mexican Government dared to pit its army against ours there would be war now. It is not Mr. Wilson's fault that we are not at war.

And yet these invasions of another country have produced no results to make us proud.

More American lives have been lost—lives of private citizens, soldiers and marines—in this Mexican "peace" than were lost during the Spanish-American war. We have submitted to humiliating conditions and awful outrages without resenting them, and yet we have paid the price of a war.

We could have prevented every outrage and saved thousands of lives if we had had a firm Mexican policy.

Did Wilson keep us out of war with any European nation?

Not at all.

No European nation would fight us. The same condition kept us out of war that kept Holland out of war and Switzerland, and Spain, and Norway, and Denmark. None of them wanted to get into war and neither did the United States. No nation involved in the European struggle wished to add us to its list of enemies.

Our foreign policy has been weak and humiliating to us, in contrast to that of small countries like Switzerland, Holland, Norway and Sweden.

A Four Billion Dollar Congress

The last Democratic Congress has passed appropriation bills at a rate which will give it the name of a "Four Billion Dollar Congress," and this in direct opposition to the Democratic platform of 1912 which denounced Republican appropriations and demanded a return to economy and a reduction in the number of public offices.

Over thirty thousand additional offices have been created during President Wilson's administration.

Mr. Hughes stands for the constructive policy of a budget system against "Pork Barrel" methods; he is in favor of a reduction in expense, and economy in government.

Aside from the great issues that are temporary at this time, there is no greater question involved than that of making our government careful in appropriations and clean in expenditures.

The Farmer Pays the Adamson Bill

The Democratic party expects to gain votes through the Adamson [POLITICAL ADVERTISEMENT] Bill, which is merely a measure to postpone trouble, passed without consideration or investigation. It will place a burden of millions of dollars in future years upon the farmers of the country, who in the end must "pay the freight." The plea is made for Mr. Wilson that he raises wages.

It is fair to add that he also raises expenses, increases taxes and places the burden on the people for a proposition which is purely political.

The threatened strike could have been avoided by an arbitration law just as easily as by the Adamson Bill.

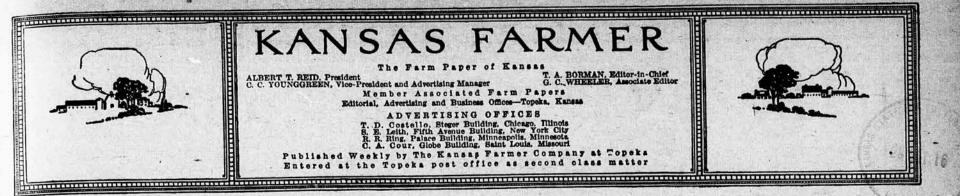
The Real Issue

When the European war is ended and the re-adjustment of conditions comes, America will need a line of defense which will be no less important than the army and navy. It will be the defense of our producers against the competition of other countries where prices are low and the standards of living are not up to those of America.

There is only one party that proposes to enact this preparedness into law, and that is the Republican party, which stands always for the protection of American farmers and American trade.

Many of the other issues of this campaign will be settled in a few months, but the consequence of no protection of our producers and our workmen would lead to disaster that would never be overcome.

On this question the Republican party deserves the support of every man who produces and who labors.



DAIRY MEETING AT MULVANE On November 10 the Kansas State Dairy Association will hold a meeting at Mulvane. The association has been hold-Mulvane. The association has been hold-ing annual meetings at Manhattan dur-ing Farm and Home Week for a number of years, but the attendance has not been as large as it should be. This idea of having several sessions during the year at different points in the state, was proposed at the last annual meeting, and the officers were instructed to arrange programs for these meetings. The sug-gestion was that they be held at points in the state where dairy interests were

This idea of taking the program to the dairyman was given its first trial at Abilene last April. Dickinson County has made considerable progress in developing the dairy industry, and it was hoped that many of its dairymen would take part in the meeting. The officers who planned the meeting were not disappointed. The attendance was large, the program was unusually good and there was much enthusiasm.

In the territory around Mulvane there has been a rather remarkable development in dairying during the past five years. We well remember that only a few years ago the farmers in attendance at a farmers' institute meeting would not go across the street to look at a dairy cow. It was admitted that crop yields were falling off and farming con-ditions were not good, but at that time the effort to arouse interest in dairying as a means of overcoming this condition failed to meet with much response. With the starting of a condensery at Mulvane, however, dairying at once began to be the type of farming generally practiced. Dairy cows were in such demand that shipments received late in the day were sorted over in the cars and in relevant sorted over in the cars and in railroad yards by the light of lanterns.

We have no details as to the program for this Mulvane meeting of the State Dairy Association, but judging by the past we feel sure it will be of such character as to make it well worth while for dairymen to make a special effort to be present. A visit to a community that has made such marked progress in its dairying in so short a time is certain to be of interest to dairymen in other sec-tions. Begin at once to make your plans to be present at this Mulvane meeting, November 10.

FUTURE BEEF PRODUCTION

Cattle growers among our readers will be much interested in the article, "Future of Cattle Industry," on page four of this issue. It is a portion of the address given by F. T. Ransom to the cattlemen who visited the Kenses Experiment Stagiven by F. T. Ransom to the cattlement who visited the Kansas Experiment Sta-tion at the close of the winter feeding experiments, June 9. Mr. Ransom is president of the Stock Yards Bank of Wichita, and has made a close study of the cattle business as conducted in the target that the stock of the store of the store

the cattle business as conducted in the territory tributary to that city. This business is undergoing changes of vital importance. The experiments be-ing conducted at the Kansas Experiment Station are pointing the way to a new era in the growing and feeding of cattle. We are practically through with ex-ploiting the use of new land for the cheap production of beef. In fact, we are now in direct competition with beef production of other countries where new production of other countries where new and is being exploited. Cattle produc-tion in this country has reached the point where it must be largely a farm business in which the cheaper feeds and cheaper lands will be used in beef production.

Cattle growers in this country may not realize the strides other countries are making in growing cattle. Argentine has been the great meat-exporting coun-try of South America, but Brazil is now making rapid progress. Numerous pack-ing houses have been established in that country during the past few years. Dur-ing 1915 Brazil exported 8,500 tons of beef, but during the first six months of 1916 its meat exports amounted to over twelve thousand tons, and according to

conservative estimates its total exports conservative estimates its total exports for the year will be around forty to fifty thousand tons, having a value of from eight to ten million dollars. To the breeder of pure-bred cattle this rapid development of the cattle business

rapid development of the cattle business in South America opens a market for pure-bred animals needed to bring about improvement. This demand is now being strongly felt in this country. To the beef producer it suggests the thought of ever-increasing competition in meat pro-duction. It will be some time before production will eatch up with consumpproduction will catch up with consump-tion, but we can have no monopoly on this business of meat production. Cattle are almost essential to market

rough feed and it is up to the beef pro-ducers of the United States to meet this competition by more rapidly improving the quality of the stock grown and thus bring about greater economy in produc-tion. This is the way pointed out by the article referred to in this issue. KILL INSECTS IN FALL

Fighting insects is an important part of raising crops. In a new country this is not so noticeable, but in a section where the land has been farmed a long time, one who would succeed must ever be on the alert to reduce to a minimum the damage done by insects of various kinds.

kinds. Injurious insects are especially preva-lent in orchards and gardens. Fall and winter is the season when these insects can be most successfully destroyed. The bugs are in their winter quarters—the remnants of old plants and other trash and litter that has accumulated about the orchard and garden. Cut out deed the orchard and garden. Cut out dead trees and limbs and use them for firewood and burn up or plow under trash and rubbish.

According to T. J. Talbert of the Mis-According to T. J. Talbert of the Mis-souri Agricultural College, this cleaning up about the orchard and garden will destroy a dozen or more of our most destructive pests. The plum curculio is now wintering as a full grown beetle in the trash and litter along the fence rows or about the trees. The codling moth will be found in the worm stage within a silken concom tucked away under the a silken cocoon tucked away under the shelly bark of dead trees and dead limbs. The fruit tree bark bettles or shot-hole borers are wintering mostly as adult beetles in dead or dying trees.

Under the old stalks and rubbish in the garden and about the borders will be found the adult asparagus beetle, bean leaf beetle, harlequin, cabbage bug, flea beetles, the striped cucumber beetle, and the chrysalis of the cabbage worm If you want to kill these pests, pile and burn dead tomato and pea vines and other remains of vegetation in the gar-den and along the border. Deep fall or early winter plowing will also destroy many insects. This is es-

also destroy many insects. This is especially true of the cut worms, potato beetles, white grubs, and wire worms which are now hibernating in the soil. Late fall or early winter plowing will turn these insects up near the surface and expose them to an attack of birds, poultry, and other animals. At this season of the year the insects are in a dormant or semi-dormant condition and when brought up near the surface of the ground they are unable to go deeper in the soil or to construct new cases or cocoons and they are killed by being subjected to excessive weather conditions and to the alternate freezing and thawing.

COLD CHECKS HESSIAN FLY

The wintry weather that swept over Kansas last week effectually checked the spread of the Hessian fly infestation. The fall has been so warm that a second brood of the flies has been laying eggs. The first brood found volunteer wheat in many localities and due to the un-usually warm weather the period of development was so shortened that mature fies were emerging and laying eggs in wheat fields that had not been sown until after the fly-free date. These fields would have been free from any fly in-

festation ordinarily, although liable to spring infestation if there happened to be early sown fields or volunteer wheat

be early sown fields or volunteer wheat in the vicinity. "This emerging of a fall brood is un-usual," says George A. Dean of the Kan-sas Agricultural College. It is most fortunate that the cold spell came when it did. The eggs of the fly cannot stand cold at all, and the maggots seldom get through the winter alive. Unless they reach the flaxseed stage before cold wanther they are almost sure to perish. weather they are almost sure to perish. This fall infestation of the fields of those who took all the precaution pos-sible, further emphasizes the importance of co-operation in checking the work of this insect.

SUDAN GRASS VALUABLE CROP SUDAN GRASS VALUABLE CROP Again Sudan grass has shown its ability to withstand dry weather and make good growth. It is rapidly being recognized as a staple, dependable feed crop for Kansas. In a recent bulletin entitled "Sudan Grass in Kansas," G. E. Thompson, its author, reviews its intro-duction into the state and tells of the success with which it is being grown.

success with which it is being grown. In so far as Kansas is concerned, points out Mr. Thompson in this bulle-tin, Sudan grass is adapted to practi-cally all soils except those which are very wet and poorly drained or those which are extremely alkaline or sandy. Soil conditions generally favorable to Sudan grass are similar to those favorable to the other sorghums. It yields best in rich loam to sandy loam soil that is well drained. Thinner and poorer soils nec-essarily produce lighter yields, although Sudan grass, like the other sorghums, is an extensive feeder, and is one of the Sudan grass, like the other sorghums, is an extensive feeder, and is one of the profitable crops on thin, poor upland soils. Being a native of a hot, dry climate, it is naturally adapted to the relatively dry conditions of Western Kansas, and it is in this part of the

state that it will prove of most value. Sudan grass can be used readily in any ordinary farm rotation. It is an annual, and can be substituted in the average rotation for corn or any other sorghum crop, or it can be grown in the longer rotations instead of the perennial hay or pasture grasses. It is not a legume, and will therefore not add nitro-gen to the soil, although its extensive fibrous root system contributes to the supply of organic matter. Careful study of its moisture requirements under field conditions and examinations of the root system at all stages of growth show that Sudan grass can draw moisture from greater depths of soil than millet, but it does not draw its moisture supply from as great a depth as do the ordi-

nary sorghums. Sudan grass is a crop that matures quickly and can often be used as a catch crop. Because it makes a much better sod than the ordinary annual grasses, and because its growth of foliage is rank and rapid, it has been, and no doubt will be, used to a considerable extent for pas-

ture purposes. .* * *

We heard a farmer in Eastern Kansas make the statement that this could never be a good dairy country because we could not depend on pasture for a long enough period of the year. If this man had by chance been farming in Wisconsin, we can imagine hearing him com-plain that the winters were too long and severe for dairying to be practiced successfully. It is largely a matter of the "man behind the cow" in making dairy-"man behind the cow" in making dary-ing a profitable business. Kansas, with her abundant supply of alfalfa, cheaply-grown silage, and mild winters, should appeal to the real dairyman as an ideal location. The lack of pasture is more imaginary than real. Hundreds of cows are milked every winter that graze on wheat pasture throughout the season.

. . Milk that has a bad flavor often ac-quires this after it is drawn from the cow. It is more often due to such influences than to the feed the cows have had.

WINTERING STOCKERS

WINTERING STOCKERS Feeders of cattle are more and more following the practice of buying stockers in the fall instead of in the spring or following summer. One reason is that they can usually be bought at fifty cents to a dollar cheaper then than in the following summer. the following summer. The farm feeder can easily afford to

The farm feeder can easily allord to winter stockers for the difference in price, even though he may not be in a position to finish them for market. It affords a market at a fair profit for much of the coarse, unmarketable feed of the farm. Full-feeding where the profit to be made depends entirely on the increase in the value of the steer, is a speculative business. The safer method the increase in the value of the steer, is a speculative business. The safer method of handling cattle is to consider them primarily as a means of marketing cheap, farm-grown feeds. When so han-dled there is a chance for profit at a number of different points in the process. Under some conditions full-feeding or finishing would be out of the question, but cattle that have consumed cheap feeds only can nearly always be mar-keted at a profit.

For wintering stock cattle there is no more effective ration than silage and alfalfa, but even such cheap feed as wheat straw can be used profitably as a part of the ration if the alfalfa and silage is limited. Steers being wintered in open lots should have sheds to shelter them during rough weather. Shelter is cheaper than feed in the long run. Cattle that are being "roughed" through need better shelter than do cattle being fullfed. The fattening steer does not feel the cold, but the stocker without the layer of fat under his skin will suffer unless given suitable protection.

Many Kansas farmers and feeders will have to buy corn this year. It is the height of folly to ship corn back and forth over our railroads as is too com-mon a practice. We have known of instances where feeders were buying corn from central markets, while corn was being shipped to market from near-be town on the same line of railroad by towns on the same line of railroad. Of course, this is highly profitable to the railroads and commission companies, but

the feeder has to pay the freight. It is desirable to supply the needs of Kansas farmers and feeders with Kan-sas grain to the fullest extent possible. The Kansas Grain Dealers' Association has started a movement that should by all means be encouraged. The plan is to get Kansas corn to Kansas farmers and feeders who are short by the most direct route. Practically the only counties in the state having a surplus of merchantable corn are those east of the Blue River and north of the Kaw. Dealers in this section are being asked to furnish their names to the association so that a list can be compiled and sent to dealers in other sections of the state, thus putting them in direct touch with the nearest source of corn supply. Southeast Nebraska will probably supply some corn in this way and the Nebraska mem-bers of the Kansas Association of Grain Dealers are being asked to co-operate in making up this list.

It seems to be the opinion of grain men that Kansas demands of corn can be largely met in this way.

This movement is along the line of greater economy and efficiency in getting standard farm products to the consumer, and we trust it will be successful in bringing about the desired result.

tional Dry-Farming Congress recently held in El Paso, Texas, won the first prize in competition with exhibits from fifteen other states. This exhibit contained various farm products, but its tained various farm products, but its most important feature was the excel-lence of the many grains and forages es-pecially adapted to Kansas conditions. Kansas won first last year also at the exposition held in Denver. The prize consists of \$100 in cash and a loving cup valued at \$500 valued at \$500.

KANSAS FARMER October 28, 1916 FUTURE OF CATTLE INDUSTRY

Beef Production Must Become a Part of Farming to be Profitable

From Address to Cattlemen at Manhattan By F. T Ransom

W E ARE all more or less familiar with the results of the raising and feeding of cattle during the past five years, and we all know that there is something radically wrong. It can be truthfully said that there are but few eattle may concerled of the old few cattle men, especially of the old school, that have not lost money. The farmers and breeders to some extent larmers and breeders to some extent have made money, but as a matter of fact, there has been but little money made that has not been made out of someone that handled the cattle and not out of the cattle themselves. On the face of it, this may appear an abnormal period in the history of the live stock industry, but a careful analysis of the situation will conclusively demonstrate that the tyouble is not in the cattle, not in the industry, but in the ideas of the

in the industry, but in the ideas of the man handling the cattle. It has been clearly demonstrated that large parts of Kansas, Oklahoma, Colo-rado and Texas cannot be successfully farmed without cattle, for the reason that the crons best adapted to the soil farmed without cattle, for the reason that the crops best adapted to the soil and climatic conditions are most profit-able when fed to cattle. The use of the silo, the pasturing on what was formerly waste on the farms, are completely changing the whole system of raising cattle. We have learned that the entire supply of stock cattle in the United States can be carried on what was for-merly waste on the farms, which means at a very small cost. at a very small cost.

at a very small cost. Two years ago our bank made a rad-ical departure from long established methods in the making of cattle loans and declined to even consider loans that were to be secured by aged steers that had been bought by the head. We were criticized in no uncertain terms by persons interested in maintaining those conditions, but we now have the facts and figures from the American Live Stock Association, showing conclusively that there is a loss in marketing aged steers raised in Texas. These figures show that the actual cost of producing and marketing a 1,300-pound steer is \$105.31, while the prive received for the animal while the prive received for the animal ranged from \$87.75 to \$97.50. These figures have no doubt been

carefully compiled by persons in a position to know and may therefore be ac-cepted as reasonably correct as far as they apply to the aged Texas steer, but the evident mistake made by the American Association is in apparently assum-ing that this is the cheapest beef steer that can be produced. Neither do they seem to consider that the marketing of a beef steer is on a competitive basis and they apparently ignore the fact that there has been gradually developing a much better beef steer produced at a less cost. This may have something to do with the market conditions of which they complain and ought also to furnish an object lesson in the cost of production. While it may seem strange, yet it is possible, that the producing of the Texas beef steer has not kept pace with the evolution of the beef steer in other localities. In other words, it may be that through the operations of the natural laws of development, a new beef animal is being produced and that the three- and four-year-old Texas beef steer is no longer in the race.

It may be justly claimed that the Texas aged steer is not much worse off than the same class in Kansas. The trouble with the average three- and fouryear-old Kansas steer is that it has ac-cumulated an expense account, several items of which add nothing to its value but nevertheless increase its cost. When a steer starts to come to market as a calf and changes ownership every six months, there accumulates in freight charges, yardage charges, commissions, shrinkages, unnatural fills, and other exotal ranging f m \$1 per head.

As long as the Texas steer, staying on its home place until shipped to be fed out as a beef animal, was in competition only with this form of Kansas beef animal, there was no cause to worry, but it is the development of this new beef animal, ranging in age from the yearling to the two-year-old, that is eliminating the aged steer. In the pro-duction of this new beef steer these unnecessary expenses must be and are largely avoided, as it should not change ownership until it comes to the market as a beef animal, or at least change own-



WAITING FOR THEIB DAILY ALLOWANCE OF SILAGE

ership but once when it goes into the feed lot where its home conditions are

While there have been several con-tributory, but minor, causes that have led to the marketing of the Kansas steer every six months during his life of three or four years, the two principal reasons are, first, the desire of the borrower to realize his profits, and second, the ma-turity of his loan. There has been a profit, however, in developing this ani-mal from a calf to the beef steer, but one great trouble is that we have been trying to realize every six months all of the profit on the entire life of the ani-mal, so that by the time it enters the feed lot all of the profits have been cashed and there is nothing left for the party full-feeding. This is the meaning of the statement that the large per cent of the profile mode of the profits made has come out of the pockets of someone else, and not out of the cattle. The new methods of pro-ducing beef steers will check this to a large extent, and by eliminating the un-necessary expenses before mentioned, and by cutting down the cost that is incurred by reason of the unwarranted length of time involved in maturing the animal, we will produce a better beef animal and at a profit. As this new beef animal is a farm

product, it must be figured on that has a farm and a fair unit would be that of fifty cows and two bulls. One of the elements of success is the quality of the animal, and consequently high grade cows and bulls are precessive and we will use cows bulls are necessary and we will use cows that cost \$65 per head and bulls at \$125 per head, or a total investment of \$3,-500. The initial investment is therefore approximately 30 per cent greater than the Texas estimate. We will figure the interest at 7 per cent, the average rate in Kansas, rather than 6 per cent as given in the Texas figures. The cost of keeping this herd a year will be as follows:

Interest\$	245.00
Two months' wheat pasture	104.00
Winter feed bill	273.00
Summer pasture	364.00
Death loss	35.00
Taxes	35.00
	- Constrained

Total.\$1,056.00 This cost is figured from weaning time to weaning time. While wheat pasture is not essential and cannot be the cheapest when figured at \$1 per head per month, it is given here, owing to the fact that it is so largely used and is a credit to the farm account. The winter feed bill represents the actual cost in by the icultura but, as here given, it does not include labor, for obvious reasons. Neither is there any interest on the farm included because the farm account is allowed \$104 for wheat pasture, \$4 per ton for kafir silage, \$2 per ton for kafir fodder, and \$1 per ton for wheat straw, so that you can readily see that the winter feed involves the utilization of a large amount of what was formerly waste on the farm.

Where the producer owns his own pasture, this allows a credit to pasture ac-count of \$7 per head, or he can rent a pasture at that figure. The death loss and taxes are each figured at 1 per cent

in order to be safe in our estimate and not because they really amount to that. This grace of cows, handled as outlined, will produce on the average a calf crop of nearly 90 per cent, but taking the average covering every class of cows in the entire state as 80 per cent will give the cost of the calf as \$26.40 as compared with the Texas figures of \$24.93. There is just as great a difference in the value of the calves as there is in the cows, so that the difference of \$1.47 per head is not sufficient to cover the difference in actual value. To carry this calf through weighing 550 pounds, would cost as fol-lows: Cost of calf, \$26.40; two months' wheat pasture, \$1.50; winter feed, \$7.15; interest, 95 cents: death loss, 75 cents total \$36.75.

The winter feed bill is based upon the tests made by the agricultural college and can therefore be easily demonstrated and the farm account is credited with the farm products used. To carry the yearling through its second summer would cost as follows: Pasture, \$7.00; interest, \$1.25; death loss, 35 cents— total \$8.60.

This would make the total cost \$45.35 and the animal ought to weigh at least 750 pounds. Two months of wheat pas-ture at the cost of \$2 would add 125 source at the total of \$2 would all 125 pounds to the weight, making the cost \$47.35, and the weight 875 pounds when it goes into the feed lot. To overcome the natural shrinkage when placed on dry feed, and to add 425 pounds to its weight by a feed of 180 days would east weight by a feed of 180 days, would cost as follows: Fifty bushels of corn at 60 cents, \$30.00; 1,500 pounds alfalfa at \$9.00 per ton, \$6.75; 500 pounds cotton-seed cake, \$9.00—total \$45.75.

Anyone at all familiar with the feeding of cattle in Kansas will readily ad-mit that this is ample. In addition to this, it will not cost to exceed \$5 to pay the freight, yardage, commission, and other expenses in marketing the animal. Figuring the cost of the animal when it entered the feed lot at \$47.35, a feed bill of \$45.75 and a marketing expense of \$5, would bring the cost of the animal to \$98.10. There is no question but that a responsible and experienced feeder would be able to decrease this total considerably. However, assuming the cost as \$98.10, as compared to the cost of the Texas steer of \$105.31, shows a difference of \$7.21. This is not the only difference, however, between the two animals, as the Kansas steer is worth, at the very least, 50 cents per hundred more than the aged steer, which makes a net difference of \$13.71 per head. This means that figuring the selling price of the Texas steer at from \$87.75 to \$97.50, the selling price of the two-year-old home-grown beef steer would be \$101.46 to \$111.21.

In figuring the cost of production we have charged everything chargeable but have given no credit for by-products. The profits from hogs and chickens are to a considerable extent creditable to the cost account of the steer. Then we have not considered the amount that is chargeable to farm account and a credit to production account due to the fer-tilizing value of the manure. We have

also furnished a market at a good price and on the farm, for its products. There is still another vital element that enters into this question of pro-ducing a beef steer, and that is, the amount and quality of the dressed beef. amount and quality of the dressed beef. These are the important factors upon which the packer must base the market price, and the feeders will find it to their advantage and profit to feed with these in view. This 1,300-pound steer fattened as beef at about the age of 26 months, has been used simply to obtain a better basis for comparison. This is not, however, the ideal beef steer of the future, which will be a younger animal, weighing from 100 to 150 pounds less, produced at a great saving and sold at a higher price per pound because of greater demand for light cuts than for the heavier cuts. the heavier cuts.

The Kansas Experiment Station is now engaged in working out the details of a plan by which practical demonstrations will be started in a few counties, and ultimately in practically every county in the state.

The plan does not contemplate trying out some theory, but it means that the crops produced on a particular farm will be those that practical experience has demonstrated to be best adapted to the soil and climatic conditions, as well as to the cattle. For this reason it involves considerable study and labor on the part of the different members of the faculty because different sections are problems in themselves. For example, what would apply to Greeley County would not apply to Sedgwick or Riley, and the natural laws governing the production of crops in the different sections must be determined and reckoned with.

We have passed the experimental stage of determining the crops best adapted to certain sections and have also demonstrated by these full-feeding ex-periments of the Kansas Experiment Station as well as by the winter feeding of stock cattle that there is a profit in the production and marketing of the best the production and marketing of the beef steer. What is left to be done is to unite in one demonstration the various elements entering into this successful production. That this has been already worked out, in a limited way but in a practical manner, by a number of Kan-sas farmers, is shown by the fact that the new beef steer is coming on the mar-ket in increasing numbers each year. At least one demonstration in every county under the supervision of the agricultural under the supervision of the agricultural college will simply assist in bringing about that which is slowly developing by the irresistible forces of its own logic and success. It is in the readjustment to new conditions that trouble and losses occur, so the sooner we pass through this transition period and establish the cattle industry on the sound basis of logical development, the better it will be for all concerned. We cannot expect the agricultural college to carry out this great work without assistance. What it will require is, of course, for the college to determine, but when these requirements are made known, then it is up to the farmers, bankers, and everyone interested in the success of the live stock industry to see that the requests are granted.

Fall Care of Vegetables Vegetables cannot successfully be stored in an unpartitioned cellar con-taining a furnace.

If no cave or portion of the cellar is available, dig a trench as long as neces-sary and about a foot deep. Providing proper drainage is maintained, cabbige, potatoes, celery, carrots, beets—in fact all of the root crops—may be stored in it. For storing apples the hole should be deeper, and usually the apples are protected by being surrounded by straw before soil is placed on them. The outer leaves of the cabbages should not be re-moved, and they should be placed head downward. Beets, carrots and salsify may be buried as soon as the tops are frozen. Celery may be placed in the trench when mature to be bleached and later stored where it will not freeze. Parsnips may be left unpulled, but if handled. Many persons believe that the flavor of the parsnip is improved by be-ing allowed to freeze before burying.

KANSAS FARMER GENERAL FARM INQUIRIES Something For Every Farm-Overflow Items From Other Departments

A READER in Franklin County asks how late in the fall and how late in the spring red clover can be

safely sown. We would not advise fall sowing at Eastern Kansas where wheat is grown in the rotation, it is a rather common practice to sow clover seed on the wheat early in the spring. On some kinds of soil the seed is sown while it is still program and the surface. freezing and thawing on the surface. This produces a honey-comb condition and the seed settles in the cracks and covers itself. Others sow later when a light harrowing is necessary to cover. The character of the soil must be considered. On some soils the honey-comb condition does not occur and on such soils the seed should not be sown until it can be covered with a harrow.

As a general rule we would advise sowing clover in the spring as early as possible. There is some danger of a late frost reducing the stand by killing the tender plants, but the advantages of the early start more than make up for this risk.

Feeding Flour

A reader asks for information con-cerning "dogwood" flour. He states that he found the term in a formula for a calf meal.

We presume what he has in mind is "red dog" flour. This is a dark feeding flour that generally contains the wheat germs. It differs little in composition germs. It differs little in composition and feeding value from the best grade of flour middlings, or white shorts, as it is called by millers in this section. Kan-sas mills do not as a rule market "red dog" flour. It is a product coming from the northern mills. Our Kansas mills sell the white shorts in competition with the "red dog" flour and in figuring feed-ing values, these two feeds can be taken as practically identical.

Concrete Water Tank

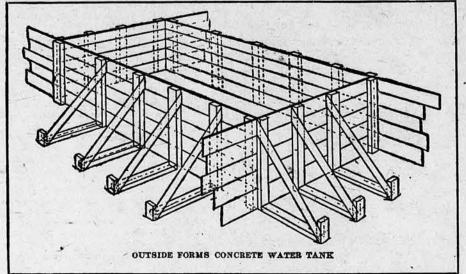
We have the following letter from A.

B., Dickinson County: "Can you give me any information as to the construction of a concrete water tank? I contemplate making such tank six by ten feet, outside measurements. I plan to make the base about eight inches thick, the sides seven inches thick at the bottom, five inches at the top, and two feet inside, making the slope on the inside. This slope is to prevent the tank bursting in case the water should freeze solid. I plan to use halfinch reinforcing rods, placing about three bands around in the sides and some hog netting in the bottom, this to extend up into the sides. What do you think of my plan? I do not want to make any mistakes. How would it be to put a couple of inch water pipes across in the base of the tank?"

Concrete water tanks give the best of satisfaction if properly made of good materials. Since such tank must be water-tight it is important that the concrete be placed all at one time and the mixture should be one part cement, two maxture should be one parts cement, two parts clean sand, and three parts crushed rock or gravel. Bank-run gravel may be used, but this varies so in its proportion of sand and gravel that it is always safest to screen with a sand screen and combine the sand and gravel in the proper proportions.

In the main, your plan is a good one. In building this tank, excavate for the foundation five or six inches deep and fill in with fill in with coarse gravel, crushed rock, or good hard cinders. Do not use ashes. If inflow and overflow pipes are to be put in, they should be placed in the start. The cut on this page shows how to make the outside forms. The inside form is simply a bettemlass hav of the form is simply a bottomless box o right dimensions to give the proper thick-ness of walls. It must be carefully braced on the inside.

In order to have no delays in placing the concrete, the forms should be made and all the materials at hand before mixing any of the material. For rein-forcing it is better to use quarter-inch twisted rods than the larger ones. In a tank 6×10 these rods should be placed nine inches every with an extra one of nine inches apart with an extra one at the top. A good grade of woven hog wire makes safe reinforcing for the bottom. When everything is ready, put the outside form in place and spread six inches of well mixed concrete over the



bottom, tamping it thoroughly. Place the reinforcing, being careful to have it long enough to project up into the side wail, and put in two inches more of the concrete. The surface can be finished with a wood float. The surface the statement with a wood float. Immediately put in the inside form and fill the space between it and the outside form, placing the reinforcing rods the proper distance apart as the concrete is poured in. Have these rods within an inch of the outside these rods within an inch of the outside of the wall. The concrete should be mixed quite thin and a paddle or spade should be used next the forms as the mixture is poured in. Unless this is done there will be rough places or pock-ets in the wall. As soon as the concrete has set enough so the inside form can be taken out paint the surface of the has set enough so the inside form can be taken out, paint the surface of the concrete with a creamy mixture of, ce-ment and water. This gives it a finish and helps to make it hold water. The outside forms should be left in place a week or more. If it should be very dry and windy when the we'k is done keep and windy when the work is done, keep it moist by sprinkling with water and protect from the wind and sun. If the woven reinforcing is carefully placed, there will be no need for putting at the bare place at the better as you

in the large pipe at the bottom as you suggest. In fact, large pipes in such a piece of work are more apt to be a source of weakness than strength.

Growing Broom Corn

J. F., Osage County, asks about the culture and handling of broom corn. Broom corn is very closely related to the sorghums and the methods of grow-

ing it are not much different from those followed in growing kafir or others of the sorghums. There are two types, the standard and the dwarf. The standard grows eight to ten feet high and pro-

duces a long flexible brush. It requires a fertile soil and plenty of moisture. The dwarf grows four to six feet high and produces a shorter, stiffer brush. The dwarf type is raised quite exten-sively in Southwest Kansas and Western Oklahoma. It makes the best brush on a rather light sandy soil. It is planted in rows about three and a half feet apart, with the plants three inches apart in the rows.

The dwarf brush is harvested by pull-ing the heads when they are in bloom. A special type of thresher is required to remove the seed from the brush. The brush should be cured under cover in order to hold its green color and prevent

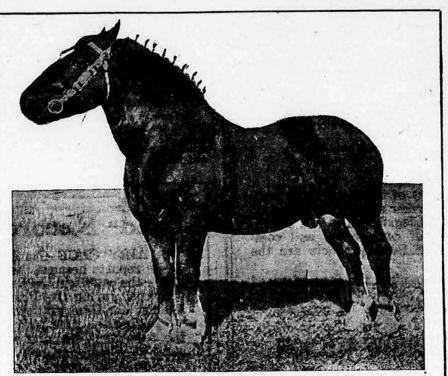
brush should be cured under cover in order to hold its green color and prevent it from becoming brittle. After it is well cured it must be baled for market. There is a great deal of hand work involved in growing and handling broom corn. It is estimated in Southwest Kan-cos that it costs at least \$40 s for to sas that it costs at least \$40 a ton to grow it and get it ready for market. It takes four or five acres of dwarf broom

takes four or five acres of dwarf broom corn to make a ton of brush. The price varies from \$50 to \$100 a ton and occa-sionally goes much higher. It is a good dry weather crop but we would advise our correspondent and others interested in broom corn to learn all they can about handling it before attempting to grow it actorization. attempting to grow it extensively. A bulletin giving full details can be ob-tained by writing to the Federal De-partment of Agriculture, Washington,

Partnership in Farming

P. M. C., Franklin County, sends in

the following problem: "A and B jointly own a farm and all its equipment, including live stock. A moves back to town while B remains and



MERONDE MERCHU, GBAND CHAMPION BELGIAN STALLION AT KANSAS STATE FAIB, HUTCHINSON .- OWNED BY DAVID COOPER & SONS, FREEPORT, KANSAS

runs the place. Both share the expense equally. Under these conditions what is a fair division of the crops and pro-ceeds from the sale of farm produce, live stock included? Is A's share of the live stock which has been accumulated since be bed the form the same as it is in he left the farm the same as it is in

that which was here when he was here to help take care of it?" As long as these two parents were putting in the same amount of labor in handling the farm and live stock jointly owned, they should have shared equally the medite main action of the shared equally owned, they should have shared equally the profits, providing each owned a half interest in the investment. Now that A has moved to town, the amount he has in the business is reduced by the value of his labor. The simplest form of settlement would be to agree upon the value of this labor and deduct it from A's share of the profits If the from A's share of the profits. If the expense of operation includes any labor hired to take the place of that orig-inally furnished by A, he should be given credit for the portion of this labor for which he is charged.

When two partners operate a business of any kind in which each has the same investment, each is obliged to stand half the expense of operation. If one partner works and the other does not, the only way to make them equal is for the nonworking partner to pay for an equal amount of labor. In the above instance when this has been done they are on an equality and can divide the proceeds from the sale of crops or live stock equally.

If any of our readers have had any experience in working out partnership problems in connection with farming, we would be glad to hear from them. Such problems are constantly coming up and the experience of those who have worked out satisfactory plans will be valuable.

Leaf Hoppers on Wheat

C. B. S., Labette County, writes that there are "millions of little insects about a quarter-inch long on the leaves of the a quarter-inch long on the leaves of the wheat. They jump and fly some little distance. They have hind legs some-what like a cricket and greenish-brown wings slightly longer than the body." He asks if these are Hessian flies, and what-ever they are, how to proceed in infested communities.

Prof. George A. Dean, entomologist of the Kansas Experiment Station, answers as follows:

"The little insects that you are finding on the leaves of your wheat plants are not Hessian flies. I am very sure from the description you have given of them that they are the little leaf-hoppers. These insects are usually common on wheat at this time of the year. They have bred in weeds and grasses that grow in the fields. As soon as frosts come, which usually kill the weeds and grasses, they move or migrate to green vegeta-tion, such as wheat and alfalfa. I do not believe that they will do any serious injury, although they are probably suck-ing some sap from the plants. These insects have been common for a number of years and as yet I have not found them seriously injuring wheat."

Oiling Wagon Wheels

B. H., a Texas reader, asks how hot linseed oil should be for dipping wagon wheels, also how long the wheels should remain in the oil and whether they should be dried thoroughly before being dipped dipped.

he purpose of dipping wheels in oil is to keep the moisture from penetrat-ing the wood and thus make it last longer. Oil has no true preservative action in that it can arrest decay. It is only as it keeps the water out that it preserves the wood.

An old carriage maker told us that careful tests had been made in their shop and these failed to show that dip-ping wheels in hot linseed oil was any more effective than applying good paint or oil with a brush. The important point seems to be to keep the wood coated with a layer of oil or paint mixed

in oil so water cannot get into the wood. Whatever method of applying the oil is used, the wood should be dry and clean. The exact temperature of the oil is not important except that it should not be hot enough to scorch or burn the fibers of the wood. Leaving the wheels in the oil a minute or two will thoroughly coat the wood.

MR.FARMER

Stand by the party which has stood by you. Laws for your relief and benefit have been enacted and put'in operation by President Woodrow Wilson and the Democratic Congress. Such laws for instance, as:

> THE FEDERAL RESERVE BANKING AND CURRENCY ACT THE FEDERAL FARM LOAN ACT THE GOOD ROADS BILL VOCATIONAL EDUCATIONAL LAW **INCOME TAX LAW**

and many similar measures which make for the best interest of the rural community.

Remember Where Your Interests Lie

Don't forget, Mr. Farmer, that through your Farmers' National Congress, National Grange, National Farmers' Union, American Society of Equity, and similar organiza-tions you have for years importuned Republican administrations for legislation you needed.

WHAT DID YOU GET?

Through all the years since 1864 the Republican Party was deaf and blind to the farmer's financial needs. This in the face of the fact that successful systems of Rural Credits were in operation throughout Europe for a century.

Was it because you were not Big Interests? You were, many of you, highly financed, and High Finance held the mortgage-and to that extent you belonged to High Finance. But you paid big interest to associate with Big Interests. A stack of wheat wasn't as good collateral as a sheaf of scraps of paper held by a stock gambler! When the Wilson Administration forced action and the Rural Credits Bill as a Democratic measure was put to vote in the Senate on May 4, 1916, only five Republicans dared vote against it! Three of them were on the sub-committee who wrote the

Republican Platform of 1916. THE PROMISES OF THE DEMOCRATIC PLAT-FORM OF 1912—written in courage and honesty and with sympathetic understanding of the needs of every honest American interest—HAVE BEEN KEPT! The Republican party refused to do these things, which

the prosperity of the American Farmer required.

The Republican presidential candidate, Charles E. Hughes, denounces the Democratic Party and President Wilson for having done these things.

WHERE DOES YOUR INTEREST LIE?

What the Democratic Party **Promises the Farmer** PLATFORM OF 1916

"We favor the vigorous prosecution of investigations and plans to render agriculture more profitable and country life more healthful, comfortable and attractive, and we believe that this should be a dominant aim of the Nation as well as of the States. With all its recent improvement, farming still lags behind other occupations in development as a business, and the advantages of an advancing civilization have not accrued to rural communities in a fair proportion. Much has been accomplished in this field under the present adminis-tration, far more than under any previous administration. But it is also necessary that rural activities should be better directed through co-operation and organization, that unfair methods of competition should be eliminated and the condi-tions requisite for the just, orderly and economical marketing of farm products created.

"We favor continued liberal provision, not only for the benefit of production, but also for the study and solution of problems of farm marketing and finance and for the exten-sion of existing agencies for improving country life."

For the first time in the history of the Nation, the business handicap under which the farmer suffers is recognized in the accomplished and proposed legislation of the Democratic Party. Unfair methods of competition and combinations for fixing the price of farm products are the creatures of Republican misrule.

The Democratic Party has recognized the farmer's need and done much to meet it. This party can be trusted to keep its promises of 1916, as it has kept its promises of 1912.

SO VOTE FOR WOODROW WILSON Kansas State Democratic Central Committee

[POLITICAL ADVERTISEMENT]

Kansas Farmer Dairy Club Oats For Milk Cows

Some of our club members are using oats in feeding their cows. Oats con-tain 9.7 per cent digestible protein, 52.1 per cent carbohydrates, and 3.8 per cent fat. Therefore, 100 pounds of oats contains about three pounds more of di-gestible protein than does corn chop, about fourteen pounds less carbohydrates and about the same amount of fat as is found in the corn chop. Oats make an found in the corn chop. Oats make an excellent feed for milk cows, but as a rule it is not economical to use them to any great extent. Ordinarily it is pos-sible to purchase mill feeds that will give just as good results when combined with corn chop or kafir, and at less cost.

An experiment conducted at the Wis-consin Experiment Station shows the value of oats as a milk-producing feed. Two groups of four cows each were fed I wo groups of four cows each were fea in this test. The cows in one group were given a daily feed of ten pounds ground oats and two pounds corn chop. The cows of the other group were given ten pounds wheat bran and two pounds of corn chop. After feeding these groups for twenty one days a change was made of corn chop. After feeding these groups for twenty-one days, a change was made, the cows getting the oats being fed the bran ration, and the bran-fed cows given the oat ration. They were fed for an-other twenty-one-day period. The cows fed the cats and chor gave an average fed the oats and chop gave an average of 23.2 pounds of milk daily for the forty-two days, and the ones fed bran and chop, 20.8 pounds. The roughage was clover hay and corn fodder — all they would eat.

was clover hay and corn fodder — all they would eat. If you have oats and they are worth about the same price a pound as corn chop, you can afford to feed them as a part of your ration and can expect good results. They give variety and that is always an advantage. The standard grain ration at the agricultural college is four parts corn chop, two parts bran, and one part oil meal, all by weight, but the cows under test—those that they are trying to get to give the largest amount possible in a given period—are fed a grain ration consisting of three parts corn chop, one part oats, two parts bran, and one part oil meal, by weight. In this ration a pound of oats replaces a pound of corn chop. Oats are nearly always worth enough on the market so they can be sold and the money used in buying more feed value for milk production in the form of bran, oil meal, or cottonseed meal.

of bran, oil meal, or cottonseed meal. Unless the pound price of oats is about the same as that of corn, you cannot afford to feed them very heavily.

Feed Suggestions

My cow is doing nicely for the feed she is getting—buffalo grass and eight pounds of bran a day.—LESLIE LINVILLE, Logan County.

We believe you would get better re-We believe you would get better re-sults by using a mixed grain ration, made up in the proportion of four parts either corn or kafir chop, two parts bran, and one part of either linseed oil meal or cottonseed meal, all by weight. You should feed about one pound of this mixcow is giving. If you have mile or fet-erita grain, this can be substituted for the corn or kafir chop.

This Ration Little Heavy

My cow is not giving as much as she did. I am feeding her 8 pounds of kafir meal, 1½ pounds of cottonseed meal, about 25 pounds of green fodder a day, and letting her run on pasture. I have

been reading the Dairy Club department in KANSAS FARMER, and I will have sil-age, alfalfa hay and rye pasture for her this winter. — BYBON ALLEN, Butler County.

We have suggested to Byron that he give his cow one to two pounds of bran a day, mixing this with the kafir meal a day, mixing this with the kafir meal and cottonseed meal. The feeds he is using are quite concentrated and the bran would lighten them. The better plan would be to mix kafir meal, bran, and the cottonseed meal in a bin or box in the quantities suggested in these col-umns and feed the cow the mixture.

Likes to Read Your Letters

I have been reading the letters in KANSAS FARMER from the members of the Dairy Club, and I think it one of the best means of keeping up interest in our work, as we may become he-quainted through these letters and learn to watch with interest what each mem-

ber is doing. My cow is keeping up her flow of milk. She gives from 28 to 35 pounds a day. She is in good flesh. For the last month I have given her only 8 pounds of bran a day. She is on good bluegrass and white clover pasture. I will continue with the present feed as long as the pasture remains good and long as the pasture remains good and she keeps up her flow of milk. Then I will add to her feed what is best suited for her .- MAHALA SMITH, Leavenworth County.

As we have advised others of our Dairy Club members, a mixed grain ration will usually give better results than bran alone. Even though corn is high in price, we would recommend the use of a price, we would recommend the use of a grain ration made up of four parts corn chop, two parts bran, and one part of either linseed oil meal or cottonseed meal, all by weight. After your cow has consumed all the roughage she will, she can be fed with profit about one pound of this grain mixture to every four pounds of milk she is capable of pro-ducing. As we have said before in these columns, it is important to know that the cow has capacity for using this much grain in the production of milk. The only way you can find out whether or only way you can find out whether or not your cow is using her feed for milk, is to watch your milk record very closely and when you find she does not give increase in milk with the increase in grain, she is being fed grain at a loss.

Rye for Milk Cows

T. W., Morris County, asks if rye can be depended upon as an early spring pasture for milk cows.

Ryc is being used more and more for this purpose. It is now rather late for seeding it, but if it is not pastured too much through the winter, it will be a good crop to plant for spring pasture, even at this late date. It tends to make more growth during the winter than wheat and is somewhat more hardy for what and is somewhat more hardy for pasture. Some stockmen, however, pre-fer wheat for pasture and plant it for this purpose. Of course, it is a very common practice to pasture wheat that has made a strong growth in the fall and winter. Early spring pasture is quite an important item in keeping up the flow of milk following a long winthe flow of milk following a long win-ter feeding period, and especially for those who do not have silage. It is a good plan to sow some rye to be used as early spring pasture.

Send Record of Dry Cows

AIRY CLUB members must not forget to send in reports because the cows are dry. A good many of the cows will have a dry period during the year. The feed cost during the time the cow is dry must be charged against her total production for the year.

During the time your cow is dry keep daily account of the feed given her and send in your feed record just the same as when your cow is giving milk.

Remember your feed and milk records for October should be sent to Kansas Farmer, Topeka, Kansas, by November 10.

Uctober 28, 1916 KANSAS FARMER FARM POWER Items of Interest About Automobiles, Engines, Tractors, and Motorcycles

A UTOMOBILES have taken such an important place in our affairs in recent years that we sometimes wonder how we ever managed to get along without them. We can hardly realize that fifteen years ago it was not never the appearment of store and yet beyond the experimental stage, and few people could be induced to regard it is anything more than a toy for the entertainment of the idle rich. They scared our horses and the country roads scared our horses and the country roads were trails of disorder, profanity and spilled eggs every time one of the new-fangled machines passed along. The rural population in many parts of the country was greatly stirred over this menace to the peace and quietness of country calm, and there was much talk of logislation arginst their use on counof legislation against their use on country roads. There were those who soberly urged

the farmers to arm themselves and turn the guns against the city joy riders when they failed to keep within reasonable bounds in matters of speed. Many of these same individuals are now converts and today use the machine for both busi-

ness and pleasure. Farmers everywhere own and operate machines. It has become an indispenmachines. It has become an indispen-sible adjunct to farming operations. The horses, like, the human, long ago adopted it, and today no self-respecting horse thinks of jumping at the sight of an auto; in fact, he is more than-likely to be sharing the barn with it and has abundant reason to bless its coming on second of emergination from sundry account of emancipation from sundry duties that once filled the Sabbath day as well as other days of the week.

Tractors in Kansas

The returns to the State Board of Agriculture show 3,932 tractors in the Agnetic March 1, 1916, as compared with 2,493 for the year preceding. The in-crease in the year amounts to 1,439, or only a little short of 60 per cent. This verifies the general belief that Kansans was provide a doming this new form were rapidly adopting this new farm power. Under suitable conditions its use is an important factor in reducing cost of production and in bringing more extensive areas under cultivation. Tractors in Kansas are more numerous in the prominent wheat-growing counties, and on the broad prairies of the "wheat belt," with neither stone nor stump to impede, these machines should find a satisfactory field for demonstrating their

satisfactory field for demonstrating their efficiency in preparing land for crops. This year's census reveals tractors in every county except Wichita. Pawnee County reports the largest number of tractors with 113, followed by Ford and Sedgwick with 108 each, Reno 107, and Barton 106 Barton 106.

The following table shows the number of tractors in Kansas, by counties, as returned by assessors March 1, 1916:



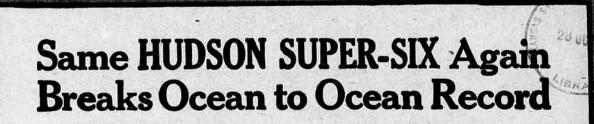
At a recent church gathering the fact was brought out that the automobile had been one of the church's most pay-ing investments, especially in the rural districts. The minister or priest in charge of the small country church usually must accept other small churches in near-by territory. A single church in a small community could not support him financially while three or four churches could furnish him a most comchurches could furnish him a most com-

fortable living. The advent of the auto-mobile has made it possible to greatly increase the territory covered. There are many instances where the rural pas-tor has greatly increased his field of usefulness by having an automobile. Where three or more churches in neigh-boring villages or communities have the same pastor, each church pays its share same pastor, each church pays its share of the automobile upkeep and the result is that the pastor has a suitable salary income, an automobile for pleasure as well as business, and his family is re-ceiving a comfortable living.

Tractor Doing Work of Horses The engine man has visions of the time when much of the work now done by horses will be performed by mechan-ical power. W. H. Saunders, instructor in farm motors at the agricultural college, maintains that if the farmer demands it the designing engineer will con-struct engines to do every task which the horse does today.

Just as horse power in the past has supplanted the man with the hoe, so in the future the tractor will supplant the horse, is his prediction. It took man many ages to realize that by using horsedrawn machines, he could greatly increase his efficiency.

The advent of the tractor means there must be some changes in the methods of agriculture just as the working of horses has meant changes in methods since the has meant changes in methods since the work was done by man power alone. Next spring at least three traction com-panies will place upon the market en-gines designed especially for the culti-vation of rowed crops. This is an indi-cation of the trend of progress in the manufacture of tractors.



On Return Trip Across America It Beats Best Previous Time and Establishes World's Endurance Record

The same Hudson Super-Six Touring Car which ran from San Francisco to New York in 5 days, 3 hours and 31 minutes, started back from New York on its arrival there and again made the transcontinental trip in shorter time than any other car ever made it.

Last spring the wonder record for the one-way trip made by a famous eight was 21/3 days longer than the time required by the Super-Six.

No other automobile ever made the round-trip against time. Yet in both the going and return trips the Hudson Super-Six lowered the best previous one-way record.

In a little more than 10 days the Super-Six covered 6,952 miles.

Counting all stops, and slowing down to the speed restrictions of 350 cities, towns and villages each way, the average time from San Francisco to New York and back to San Francisco was almost 700 miles a day.

In the last leg of the return trip, between Elko; Nevada, and San Francisco, heavy mountain rains were encountered. In the going trip that distance was covered in 201/2 hours. On account of the rain and mud, 35 hours were required on the return. Under similar road conditions as were met in the going trip the return would have been under 5 days.

Hudson Holds Every Worth-While Record

There are no important world's records which refer to a stock car that the Hudson Super-Six hasn't won. The best former records are too easy for the Super-Six. The events are too easily won. For instance, in the 24-hour record, 1819 miles, it exceeded the best former record by 52%.

And the Super-Six made the best time in the world's greatest hill-climb up Pike's Peak. The best time for 100 miles. The greatest distance covered in one hour and the fastest time for a stock chassis at the rate of $102\frac{1}{2}$ miles an hour.

Such Endurance Is Convincing Here we prove again that the Hudson Super- ber 1, except for some minor details.

. \$2750 2850 2850

HUDSON MOTOR CAR COMPANY, DETROIT, MICHIGAN

Six has more endurance than we have ever claimed for it.

What can be more convincing than that round trip across the continent made with a Hudson Super-Six light weight 7-passenger phaeton? Previous records were made with roadsters and stripped cars, but the Hudson at all times carried three, and sometimes four, passengers, and with its baggage weighed in excess of 5,000 pounds.

No Engineer Hopes to Excel It

Remember that the Super-Six is a Hudson invention controlled by Hudson patents.

A hundred cars have motors of like cylinder capacity. Many cars have more cylinders. But in the Super-Six vibration has been reduced to almost nothing. That adds 80% to efficiency.

The Super-Six is not one of the passing sensations. Ours is not one of those claims to motor supremacy which yields in a year or two to another. Mark what these records mean. There is plenty of evidence now to convince you that it cannot be superseded.

Save \$175 Now

For many reasons, now is the time to get a Hudson Super-Six.

In the first place you can get delivery now. Last summer thousands had to wait, and thousands must wait next spring.

Then by buying now you can save \$175. The price will be advanced December 1. The models will not be changed. You get the same Super-Six motor, the same wonderful chassis, and the same beautiful body. Your car you get now will be identical with those we shall sell after







READ KANSAS FARMER'S CLASSIFIED ADVERTISING PAGE FOR READY BARGAINS

KANSAS FARMER LIVE STOCK

N THE live stock farm winter brings many problems. It is a time to plan carefully on how the different classes of animals can be most profitably fed. Grain is high in price and should be fed judiciously. The rough feed of the farm should be used to the fullest extent possible in winter-ing stock. For some classes of animals a small allowance of concentrates with these low grade feeds gives the best of results.

For convenience in planning winter feeding, farm animals may be divided into three classes, suggests a writer in the weekly news letter from the Fed-eral Department of Agriculture: Mature animals not producing an in-come during winter months, animals pro-ducing an income during the winter, and

come during winter months, animals pro-ducing an income during the winter, and young and growing stock to be retained on the farm the following summer. In the first class may be included all mature live stock held on the farm, either for breeding purposes, future work, or finishing for market the following summer. summer.

In the second class may be included work horses, cows producing milk, and stock being fattened for market or conditioned for sale during the winter months.

The third class should include all young and growing stock on the farm.

The big saving in the winter feed bill can be made in feeding the animals in-cluded in the first group. This does not mean that animals of this class should be permitted to come through the winter in a run-down and weakened condi-tion. Rather than consider such a praction. Rather than consider such a prac-tice, it would be far better to sell the stock in the fall. It is meant, however, that they can and should be maintained on the cheaper feeds. Roughages, sup-plemented by a small amount of concen-trates—oil meal or grain—are in favor for them. Give the horses, cattle, and sheep access to cut-over grain fields and straw stacks, meadows, wooded lots, and pastures. Horses and sheep may have access to husked-out cornfields. In cer-tain sections where losses of cattle have tain sections where losses of cattle have been experienced in the past from the so-called cornstalk disease, farmers should consider this fact before turning cattle into such cornfields. As the winter advances, open the bars to shelters, feed racks, and grain troughs. Silage will be invaluable at this time,

especially for cattle and sheep. Keep the feed racks filled with corn stover, hay, and straw, but do not be wasteful the feeding. in

The amount of grain to put in the trough can not definitely be given. The same should vary in accordance with se-vereness of winter and condition of stock. vereness of winter and condition of stock. This is a point that can only be decided in the feed lot. To permit the stock to go entirely without concentrates at this time would be a grave mistake, and in all probability make impossible the task of bringing it to spring in a healthy and vigorous condition. Such a condition is imperative in the case of breeding ani-mals and essential for feeders if best re-sults are to be obtained. sults are to be obtained. The matter of feeding hogs, included

different problem from that of the other stock. It is true that they may profit-ably be run on grain fields, meadows, and pastures before snow arrives, but and pastures before snow arrives, but concentrates must constitute much of their ration after outside fields are closed for winter. Roots, chopped alfalfa hay, apples, and waste products of the dairy and household will do much to-ward keeping down the cost of their winter feed. In fact, any products that will substitute for the forage and grasses in the field, which feeds are so essential in the field, which feeds are so essential the conditioning of brood sows, can well be used.

Concerning the feed for stock included in the second class, little need be said. It is a fact well known that horses at work require both care and feed. This they must receive if their work is done. To furnish the dairy cow with rations not intended to meet the demands made upon her system by the milk she gives would defeat the purpose for which she is kept. Equally certain would the stinting of the ration of fattening steers or hogs fail to make them ready for the Christmas market. As the food require-ment for these different classes of live stock is a matter of common knowledge to stockmen, it remains only to see that

it is provided in abundance. It is in the wintering of the young and growing stock that the most costly mistakes in feeding are made. A full realization of the fact that cheapest and



sometimes called "one register" or "vacuum system," have their uses. Made right and used in the right place, such a system can give very good results. But up to now no such device has been made with registers or air passages 'sufficiently large enough to permit the passage of the heat. The

One Register Home Riverside

has over twice the air passage pos-sessed by any other, and it is a suc-cessful heater. So is the

THREE REGISTER HOME RIVERSIDE for the same reason.

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Winners in the **Old Ben Contest**

Following are the names of those who were awarded prizes in the con-test advertised in this and other farm publications during the past few months.

Roy A. Miller, Farmington, Mo. - - \$50 Mrs. E. E. Tietze, Cambridge, Neb. \$25 Thomas Johnston, Morrisonville, Ill. \$10 and \$1 each to the following twenty-five :

and \$1 each to theifollowing twenty-five: William M. Heine, Fort Lauderdale, Florida: Dora Ver, Illimois; Ray K. Howe, Peoria, Illimois; Mise Knecht, Hartford, Indiana; W. D. Loomis, Blen-knecht, Hartford, Indiana; W. D. Loomis, Blen-en Jowa; Mira, J. W. Ridnour, Gravity, Jowa; Kres, Fred A. Smith, Toy, Kansas; Mise Nellie E. Kansen, Leon, Kansas; Mirs, Ray Brownlee, Pretty Prairie, Kansas; Mirs, Fra Britton, Raymond, Kansen, Leon, Kansas; Mise Britton, Ar-stor, Nebraka; Burlish, Missouri; Wang, E. B. Sanders, Kansas, Chirs, Missouri; Wang, Kanser, Marionville, Missouri; Peter Jensen, St. Faul, Nebraka; Geo, Jung, Pleasant Dale, Ne-brake, B. G. Kruthamp, Jr., Missouri, Chio; Clyde Horsen, South Dakota; Miss Nina Chandler, Le-bano, South Dakota; Miss Nina Chandler, Le-bano, South Dakota; Missouris, Missouris, Chandler, Le-bano, South Dakota; Missouris, Mis

Ruben Engstrom, South Range, Wisconsin. The judges were George H. Cush-ing, editor of the Black Diamond, a leading Coal Trade paper, Dr. F. C. Honnold, secretary of the Franklin County Coal Operators Association, and William A. Stiles, a well known advertising expert of Chicago.

Hundreds of letters received were good as to require considerable deliberation in making decisions. An-other similar contest in 1917 is contemplated.

Old Ben Coal Corporation CHICAGO



October 28, 1916



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W. F. YOUNG, P.D.F., 211 Temple St., Springfield, Mass.



GOPHER TRAPS something the gophers can't Circular free. A. F. Benkin, B. 478, Crete, Neb.

KANSAS

most rapid gains in live stock are made with younger animals should do much toward obviating losses to farmers through insufficient and improper feed-ing of such animals. The failure to put gains on animals during the growing period intended for them by Nature can-not be corrected by liberal feeding at any later time. Their growth has been stunted, and rarely will they fully re-tover from the earlier setback. Even when they do it is a costly practice to put growth and flesh on a stunted ani-mal, as compared to what could have been done when he was in a healthy and most rapid gains in live stock are made been done when he was in a healthy and vigorous condition.

But it is not necessary that young stock be fed as are fattening animals. Watch their feed troughs and see that all of the daily rations are consumed. all of the daily rations are consumed. Do not feed them in excess, but make certain they are contented after each feeding. See that the exercise lot is used daily and that clean water is pro-vided. The failure to feed young stock properly will open the way for future serious troubles, and no stockman can afford to encourage such a practice, even during the winter months.

Margin in Feeding Lambs

Many are questioning whether it will be profitable to feed fambs at the pres-ent high price for feeders. It is a speculative business and involves considerulative business and involves consider-able risk. If one can get a margin of 50 cents on the selling price over the buying price, it may be a profitable transaction. At the Nebraska Experi-ment Station two years ago, when corn was 60 cents and alfalfa hay \$8, gains on lambs cost \$4.88 per hundred. Last year with feed at the same price, lambs fed heavily on corn made gains at \$5.53 fed heavily on corn made gains at \$5.53 per hundred, and those receiving a medium feed of corn made gains costing \$4.90 per hundred. As corn will prob-ably bring 70 cents and alfalfa hay \$10 this winter, it is likely gains will cost upwards of 6 cents a pound. Conse-quently a 50-cent margin between buying and selling price should mean a chance for profit to the careful feeder who gets satisfactory gains.

Time to Breed Ewes

If the next crop of lambs is to come when it can be handled with greatest profit, the ewes should be mated at once. In many small farm flocks the ewes have already been bred.

It is an advantage to have lambs come early in the spring so that they will be of sufficient size to make good use of the grass when first turned out to pasture with their mothers. Also by having them come early, they can be finished off and marketed before there is a run of range lambs, which always breaks the market. The gestation period in is five months.

Trapshooting

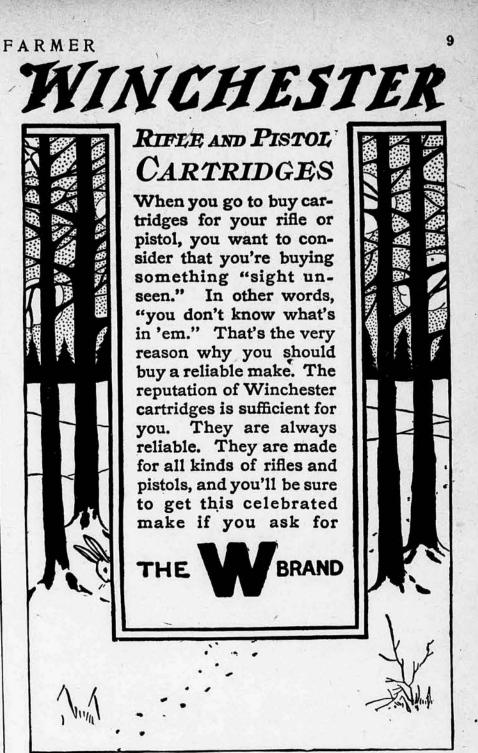
Back in the early eighties, when America's sportsmen began to demand a between-season outlet for their gunning enthusiasm, some bright Yankee genius conceived the idea of the glass ball as a fitting target to try the prowess of the marksmanship, when the object was pro-jected at unknown angles from a me-chanical contrivance known as a trap.

The name of Bogardus, in connection with glass ball shooting, is not only his-torical but still alive and dominant in the reminiscences of old timers, a goodly percentage of whom still follow the sport

of trapshooting. The trapshooting of today, however, differs materially from that sport of long ago; the traps are more scientifically constructed, the target, instead of being globular in form, is saucer-shaped and not only covers its fifty-yard flight with the speed of an arrow but rotates as well.

It has become customary for writers to refer to the clay pigeon as "the in-animate target"; so long as they remain packed in barrels or stacked in the trap house this is quite proper. On the other hand, were you to ask any one of the 500,000 active trapshooters in the country for his personal opinion, he would unhesitatingly say that immediately following the release of the trap it becomes just about as animated as a devilish ingenuity could conceive. - GEORGE PECK.

The more a cow relishes her feed the more she will eat, and that means the more she will produce at the pail. That's the idea of palatability in the ration, increasing the cow's desire for food, stimulating her appetite, and catering to her taste. Of course, all this presup-poses a good, profitable cow.



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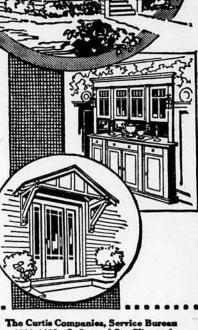
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KANSAS FARMER



When Nature Turns Outlaw

"Blow, winds, and crack your cheeks! rage! blow !-You cataracts and hurricanoes, spout

Thus King Lear, in Shakespeare's tragedy, defies the elements. But man, even today, cannot challenge nature with impunity.

The unsinkable ship goes down like a rock from the impact of an iceberg. The fireproof building is burned. The monument, built for unborn generations, is riven by lightning or shaken down by an earthquake.

There are storms which make train service impossible, which delay the mails and which close the public highways to the usual traffic." Even in the cities there are times when the street cars do not run, and neither automobiles nor horse-drawn vehicles can be driven through floods or high-piled snowdrifts.

Such conditions increase the dependence on telephone wires, which themselves are not exempt from the same natural hazards. Fortunately, however, the Bell System has faced these dangers and well-nigh over-come them. Masses of wires are buried underground and lonely pole lines, even the most stoutly built, are practically paralleled by other lines to which their business can be transferred.

Each year the lines are stronger and the guardians of the wires are prepared to make repairs more quickly. So each year increasing millions of subscribers find their telephones more dependable and, within the limits of human power, they count upon their use in storm as well as in fair weather.



OVERLAND E

A Romance of The Moonstone Canon Trail

SYNOPSIS OF PRECEDING CHAPTERS

Suppresent of the desert in his search for gold. In the desert town men begin for the ture of the desert in his search for gold. In the desert town men begin of decide to beat him out of his claim. Meanwhile, in the lonely canon he harded the little yellow bits. As weeks rolled by the water decreased; he carefully sowed his gold in a pouch and prepared to leave the canon. After a faithful the search he finally comes to a railroad. Here he is found by a man, who gives him water decreased; he careful sioned he little yellow bits. As weeks rolled by the water decreased; he careful so week he finally comes to a railroad. Here he is found by a man, who gives him water, but being so exhausted the water is of no avail—a flash comes over him and his vision is forever darkened. Louise Lacharme and Boyar of Moonstone has picked up along the way). Tenlow, the detective, finds the prospector by the railroad and rides up to the camp to arrest Overland, whom he suspecting but being so extra the detective. Tenlow's horse slips and rolls head having turned toward the foothills, Overland releases for the dott and disappears in the burne, being a very influentiate the water steen out of the visit. Waiter Stone, her uncle, about the arrest, and finally found to be of the steen of the detective. Tenlow's hourse, being a very influentiate the work to do. After several day work with Williams, the foreman of boyers him work, to do. After several day work with Williams, the foreman of her on the streak of gold. Arriving at the detect to her of the tended to be a the streak of gold. Arriving at the detect thing owned her indices the whole her and the streak of gold. Arriving at the detect the indice the dister the mountains near the streak of gold. Arriving at the detect the date the detect the detect the date the detect the detect the detect the detect the detect the detect to the detect to be a streak do the provement of the detect to be a streak do the detect to be about the arrest, and finally found the found the found the found th

CHAPTER XIX.

"TO CUT MY TRAIL LIKE THAT!" O VERLAND RED was concluding his last yarn, a most amazing account of "The night the Plancher boys shot up Abilene.

"The night the Plancher boys shot up Abilene." It was exactly two o'clock by Dr. Mar-shall's watch. "Both my guns was choked up with burnt powder. I reached down and borrowed two guns off a gent what wasn't usin' his jest then. Next day I was elected sheriff unani-mous. They was seven of us left standin'. That was back in '98." Overland yawned and stood up. "The boys are all asleep now." said Walter Stone. "We have plenty of room here. You'll not object to taking one of the guest-rooms as you find it. I'm sure." "For better or for worse, as the 'pote says." And Overland grinned. "But I got to put that little chaffer to roost some-where."

"For better or for worse, as the 'pote says." And Overland grinned. "But I got to put that little chaffer to roost some-were." "This so." "Till go wake him up." And Overland strode to the racing-car. The 'chaffer' had departed for parts unknow. "I guess he was scared at that last grade," said Overland, returning, to the house. "Per back down the road afoot." "Per hack down the road afoot." "Overland, closing the door of the spacious, con guest-room, glanced about curiously, What was it made the place seem so differ-ent from even the most expensive hotel suites? The furniture was very plain. The decorations were soft-toned and simple. "I's—li's because the Rose Girl lives here, guess," he solitoquized. 'Now this kind of a roost would jest suit Billy, but it makes me feel like walkin' on eggs. This here srazin' is too good for me." He undressed slowly, folding his uncr-customed garments with great care, Hep jaced his automatic pistof on the chair by be bed. Then he crept beneath the sheets, forgetting to turn out the light. "Hugh gettin' absent-minded like the old professor what bicked up a hairbrush instead of a lookin'-glass to see if he needed shavin'. He wad dum' near scared to death to see how his beard was growin'." And Overland chuckled as he turned out the lights. The was dum' for a for to sleep at once. He mised the desert night—the spaces and the stars, "I left here in a hurry once." he mutered. "Bout three years ago. Then I was kiddin' Collie about wearin' silk pejam-mies. Now I got 'em—got 'em on, by thunder! Don't know as I feel any heftier in the intellec'. And I can't show 'em to nobody, knows it? But I can hang 'em on hebed-post in the mornin', careless like, jest like I was raised to it. Them pejam-mises to complete an equipment for the proposed camping trip in the hills. He was astounded at Overland's appearance. How-ever, he had absorbed Western likes, and proposed camping trip in the hills. He

his work, Dr. Marshall, after expressing interest in the equipment, excused himself and wan-the equipment, excused himself and wanthe equipment, excused himself and wan-dered over to the corrals, where he admired

dered over to the corrals, where he admired the horses. "Where did you get 'em?" queried Collie, adjusting the length of stirrup-leathers. "These?" And Overland spread his coat-tails and ruffied. "Why, out of the old Mojave. Dug 'em up with a little pick and shovel." "You said in your letter you found the claim." "Uhuh. Almost fell over it before I did, though. We never found the other things, by the track. New ties. No mark. Say, that Billy Winthrop I writ about is the brother of them folks stayin' here! What do you think!" you think!" "Wish I was out there with you fellows,"

"Wish I was out there with you fellows," said Colle. "You're doin' pretty good right here, kiddo. The boss don't think you're the worst that ever came acrost, and I expect the ladies can put up with havin' you on the same ranch by the way they talk. Got a hoss of your own yet?" "Nope. I got my eye on one, though. Say, Red, this is the best place to work. The boss is fine. I'm getting forty a month now, and savin' it. The boys are all right, too. Brand Williams the foreman." "Brand who?" "Brand who?" "Williams. He came from Wyoming."

Overland Red.-Copyright, Houghton Mifflin Company.

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All right. Here, you want on the other side. I'm left-handed when I shaka with him." But Saunders was not at the bunk-house. Instead he had ridden on down to the gate and out upon the Moonstone Trail. He had become acquainted with Deputy Tenlow. He would make things interesting for the man who had "winged" him out in the desert. "I smell somethin" burnin!" said Over-land significantly. "The Saunders man has got somethin" up his sleeve. He did n't turn his pony into the corral, did he?" "No." "All right. Now, about them papers and your part of this here claim. . ." For an hour they talked about the claim. Winthrop, Collie's prospects, and their favor-tie topic, the Rose Girl. They were speak-ing of her when she appeared at the bunk-house door. "Good-morning, Mr. Summers. Mrs. Mar-shall wished to know if you would tell her more about her brother-when you have visited with Collic. She was afraid you might leave without her seeing you again." "I was thinkin' about that myself," re-plied Overland. "Yes, Miss, I'll be right over direct."

Twas thinkin about that myself," ferring overland. "Yes, Miss, Fill be right overland, ever, Miss, Fill be right over direct."
Louise nodded, smiled, and was gone.
"Say, Red, you better go quick, in the machine," said Collie, fearful that Saunders, was up to mischlef.
"Grand idea, that," said Overland, eanly brushing his hat. "But Tenlow and Saunders, that you're thinkin 'about—ain' neither of 'em goin' to ride up too close to me again. They are goin' to lay for me down the canon. They'll string a riata across the road and hold up the car, most likely. They know I can't get out of here any other road."
"Me? Why, me and the Guzzuh'll go down the trail jest as slow and easy as a baby-buggy pushed by a girl that's waitin. In the park for her benu."
"You'll dich the machine and ge all broke."
"Tam havin' too good a time to last. I know, seein' the Rose Girl again and you in visitin' the folks up to the house. We'll fi t's my turn, I ain't klekin'. Sorry Brand and 't here. T'd like to see him. Here's a little old map I drawed of the hills, and how to get to the claim in case I get dehaptons. He's a steady old boat and he'll you what to do."

10



The 4 H. P. Cushman Handy Truck is the most useful outfit ever built for farm work. Engine weighs only 190 lbs., and entire outfit only 375 lbs.

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KANSAS FARMER

KANSAS "But, Red, you don't think—?" "Not when it hurst me dome," interrupted Overland. "I got a hunch I'll see you again before long. So long, Chico. I got to shine some of the rust off my talk and entertain the ladles. You might get into my class, too, some day, if you knowed anything ex-except hoss-wrastlin 'and cow-punchin'," he add affectionately. And Overland departed, sublimely content and not in the least disturbed by future prepating to himself. "He's the great kid!" he kept repeating to himself. "He's the same kid— solid clean through. Good morn-ing, ladles, Now about Billy—er—Mr. Win-throp; why, as I was sayin' last night. ... No, thanks, I'll set facin' the road. Sun? Why, lady, I'm sun-cured, myself." CHAPTER XX. THE LED HORSE,

THE LED HORSE.

THE LED HORSE, Anne Marshall had stepped from the porch to the living-room. Overland Red was alone with Louise. Facing her quickly, his easy banter gone, his blue eyes intense, untroubled, magnetic, he drew a deep breath. "They're waiting for me down the canon, about now," he said, and his tone explained his speech. Louise frowned slightly, studying his face. "That is unfortunate, just now," she said slowly.

Louise frowned slightly, studying his face. "That is unfortunate, just now," she said slowly. "Or most any time—for the other fella," responded Overland cheerfully. The girl gazed at the toe of her slipper. "I know you didn't speak because you were afraid. What do you intend?" "If I ain't oversteppin' the rules in in-vitin' you—why. I was goin' to say, 'Miss Lacharme, wouldn't you like to take a little buggy-ride in the Guzzuh, nice and slow. She's awful easy ridin' if you don't rein her too strong.'" "I don't know," said Louise pensively. "Your car can only hold two?" "Yes, ma'am." "I couldn't run away and leave Mrs. Mar-shall. Of course, you would go on—after— after we were in the valley. How could I get back?" "That's so!" exclaimed Overland, with some subtlety, pretending he had not thought of that contingency. "Course Col-lie could ride down ahead with a spare hoss. You see the sheriff gent and Saunders." "Saunders? Our man Saunders?" "Tou. Me and him ain't friends exactly. "Tou. Me and him ain't friends exactly. "Tou are sure?" "Tou are sure?" "Toe, Miss, ' don't make no mistakes about him." "The one of our men has gone to get the deputy to arrest you, and you are our suster."

"Then one of our men has gone to get the deputy to arrest vou, and you are our super "

guest." "Thanks, Miss, for sayin' that. at's worth gettin' pinched to be your guest." "I did intend to ride down for the mail. Boyar needs exercising." "So does the Guzzuh, Miss. ... s queer how she acts when she ain't been worked every day."

"So does the Guzzuh, Miss. ...s queer how she acts when she ain't been worked every day." "I don't believe Anne would care to come, in the machine. I'll ask her." And Louise stepped to the living-room. Collie, who had been watching anxiously from the corrals, came across the yard to the veranda. He was drossed for riding, and he had a gun on his hip. Overland scowled. "You little idlot," he said, "when your Uncle Jack's brains get ossified, just give the sad news to the press. You're jest litchin' to get in a muss and get plugged. I ain't. I figure to ride down the Moonstone Trail, steerin' the Guzzuh with one hand and smeilin' a bunch of roses in the other. Watch my smoke. Now, beat it!" Louise, coming blithely from the living-room, nodded to Overland. Her pensiveness had departed. Her cheeks were flushed. "On. Collie! Saddle Boyar—" she began, but Overland coughed disapprovingly. He did not wish Teniow and Saunders to sus-pect that the led horse was for Louise. "Or—no. Saddle Sarko," said Louise, at once aware of Overland's plan. "And have him at the foot of the hill for me as soon as you can." "Yes, Miss Louise." And Collie departed for the corrals wonderingly. Overland was too much for him. They had luncheon and allowed Collie two hours to arrive at the valley level with the led pony. After luncheon Louise appeared in riding-skirt and boots. "Mr. Summers is going to take me for a ride in his new car," she said. "Don't worry, aunty. He is going to drive slowly. He finds that he has to leave unexpectedly." "Tm sorry you are going without seeing Mr. Stone and Dr. Marshall again," said Aunt Eleanor. "You'll be careful, won't you?" "So am I, ma'am.—"Yes, I'll run slow."

"So am I, ma'am.—"Yes, I'll run slow." "But how will you come back?" queried

"But how will you come back?" queried Anne. "Collie has gone ahead with a spare pony. Good-bye, aunty." "I can't thank you enough for all that you have done for Billy. I am so glad he's well and strong again. We never could manage him. Good-bye, and tell Billy he must come over and see us right away." "You'll drive carefully?" queried Aunt Eleanor again. "Jest like I was goin' to get pinched," said Overland, bowing. As Collie rode down the last pitch, lead-ing the restive Sarko, Dick Tenlow stepped from the brush. "Morning, Collie. Out for a little pascar?" "Shouldn't wonder, Dick." "Horses are lookin' good. Feed good on the hills yet?" "Pretty good" "I hear you rot company up to the Moon-

"I hear you got company up to the Moon-stone."

"Yep. Eastern folks, doctor and his wife." And Collie looked the deputy hard in the eye. "Oh, that was their machine I heard coughin' up the canon last night, eh?" "I didn't ask them about that," replied

"You're improvin' since you first come into these hills," said Tenlow, with some sar-

these hills," said Teniow, with some bar casm. "I'm holdin' down a better job than I did then," said Collie good-naturedly. "Well, I ain't. I'm holdin' the same job, which you will recollect. It ain't much of a job, but it's good to requisition that cayuse you're leadin'." "What you kiddin' about?" "Straight goods," said Tenlow, reaching for Sarko's reins. "Just hand over your end of that tle-rope." [To be continued.]



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Good Shooting

When you are out in the fields and

woods with your shotgun this fall, or in the marshes waiting for the ducks, bear this fact in mind-your shooting would be much better if scientific game farring were conducted more ex-

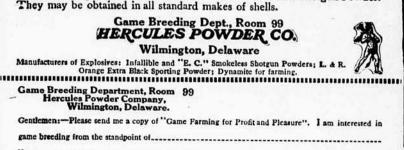
Game farming is being carried on much more extensively than formerly, Game farming is being carried on much more extensively than formerly, especially so during the past year. Evidence is plentiful to the effect that eventually we will pay as much attention to this important subject as have

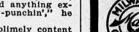
eventually we will pay as much attention to this important subject as have the people of Europe for many years. The wonderful grouse shooting in Scotland is one example of the results obtained there. Game farming not only means much to the sportsman through an in-crease in game but also to the people as a whole through decrease in price and a greater supply of game birds for the table. Those conducting game farms find both profit and pleasure in the work. Why do not you become a game farmer? Write us for our book-let, "Game Farming for Profit and Pleasure". You will find it well worth reading. Please use the coupon below.

When You Buy Loaded Shotgun Shells

How much do you know about the powder you shoot in the fields or at the traps? You should be thoroughly informed regarding it and specify

at the traps? You should be thoroughly informed regarding it and specify a given powder when you buy shells. If you will write us we will gladly tell you all about the two Hercules Smokeless Shotgun Powders, Infallible and "E. C.". These powders are of unusually high and uniform quality. They give even patterns, high velocity, light recoil. You can always depend upon them. The next time you buy loaded shells specify either Infallible or "E. C." Smokeless Shotgun Powder. They may be obtained in all standard makes of shells.







The largest, best and most successful college in the West. Control your future by having a specialty. A successful school and successful methods. Character building and business training. A good position for every graduate. Moderate tuition—clean city—expert faculty. Free winter chautauqua, lectures, stereop-ticon. Stenotypy, the machine way of shorthand. Illustrated college paper free. Positions guaranteed when your work is completed. Learn all about this big school. Let me send you free our big new 1916 catalog and a copy of the "NEW ERA." Write for them now.

L. L. TUCKER, Pros., Kansas Wesleyan Business College SALINA, KANSAS



We desire to make this department just as helpful as possible, and believing that an exchange of experiences will add to its value, we hereby extend an invitation to our readers to use it in passing on to others experiences or sugges-tions by which you have profited. Any questions submitted will receive our careful attention and if we are unable to make satisfactory answer, we will endeavor to direct inquirer to reliable source of help. Address Editor of home Department, Kansas Farmer, Topeka, Kansas.

"I shall pass through this world but once. Any good thing, therefore, that I can do, or any kindness I can show to any human being, let me do it now. Let me not defer it or neglect it, for I shall not pass this way again."

When you visited the school, did you discover ways in which you could make the room more comfortable or more at-tractive? Maybe the task which suggested itself to you is too great to un-dertake alone. Doubtless other mothers and fathers in the district would be glad to help bring about the improvement if you would make the suggestion or ask them to go to the school and see for themselves, the need.

Care of Teeth Important

Neglect of teeth in childhood is usu-ally paid for dearly in after years-either with enormous dentistry bills or with great suffering. The teeth should be brushed regularly

at least twice daily, and should be ex-amined occasionally in order that any

decay may be checked. Defects of the teeth and jaw can be corrected much more satisfactorily early in life. This matter should not be neg-lected. These defects mar the beauty of the face and affect the life of the between the teeth and neglect of the between the teeth and one's general health is very close and neglect of the teeth may undermine the human system and rob it of its resistance to disease.

Carelessness

I am more powerful than the com-bined armies of the world. I have destroyed more men than all

the wars in the world. I am more deadly than bullets and I have wrecked more homes than the

mightiest of siege guns. I steal, in the United States alone, over \$300,000,000 each year. I spare no one, and I find my victims

among the rich and poor alike; the young and the old, the strong and the weak, widows and orphans know me. I loom up to such proportions that I cast my shadow over every field of labor, from the turning of the grindstone to the moving of every reilroad train

the moving of every railroad train. I massacre thousands upon thousands

of wage earners in a year. I lurk in unseen places and do most of my work silently. You are warned against me, but you heed not.

I am relentless. I am everywhere; in the home, on the streets, in the factory,

at railroad crossings, and on the sea. I bring sickness and degradation, and

yet few seek to avoid me. I destroy, crush and maim; I give nothing, but take all.

I am your worst enemy. I am Carelessness!—Exchange.

This Teacher Earns Salary

Recently we were talking with a rural Recently we were taking with a rural district teacher who is keenly alive to the possibilities in his work and who is deeply interested in everything that will help in making it more fruitful. Evi-dently this teacher has full support from his school board even though at times there may be doubt in the minds of the members as to the outcome of some projects. They are at least glad to see him try out such undertakings.

Perhaps this young man has an ad-Perhaps this young man has an ad-vantage over some teachers because he lives in the district and spends his sum-mer months farming. In this way the needs of the district are his needs, and its advantages are shared by him. But he is earnestly endeavoring through his teaching and his living, to hold up to the young people in his district the ad-vantages of farm life and the importance of education in making life on the farm satisfying and remunerative. satisfying and remunerative.

If figures are worth anything in measuring success in work of this kind, we would count him most successful. Last year out of an average attendance of twenty-eight, ten were graduated, and this year every one of the ten is in high school. Surely only one thing could be more gratifying, and that would be to watch the lives of these ten—all of whom say they are going to return to the farm—as they grow and develop and become strong influences in their home communities after they have equipped themselves for their life's work. This is the kind of success which increases with time, as the constructive work done with time, as the constructive work done bears fruit year after year.

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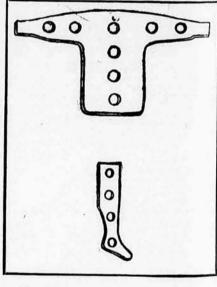
Another of the achievements of this teacher is an organized choir of forty children and twenty-five young men and women. The members of this choir come from five different districts and meet once a week to sing, and a number of special programs are given throughout the year.

These are only a few notes from the record of one rural teacher whose busi-ness office is a one-room Kansas school, but whose work is not forgotten when the office is closed.

There are interested teachers, and indifferent ones. However, the members of the school board and the school patrons should many times assume the whole responsibility for the teacher's atwhole responsibility for the teacher's at-titude. Teachers are only human, and it is possible to kill the ardor of even the most enthusiastic, by a lack of in-terest and co-operation in the district. The teacher is hired by the board and can do only what the board sanctions, but backed by the board and school pat-teacher is hildities are almost limit. rons, the possibilities are almost limitless so long as they keep within the law.

Wooden Drying Forms

Home-made forms of wood similar to those shown in the picture on this page, will be found very useful in drying



woolen baby shirts and stockings with-out stretching them out of shape. The forms should be patterned after the gar-ments when new. They will be helpful in preventing shrinking. The holes in the forms permit the air to pass through.

Bulbs for Spring Flowers

It is time to set out the spring blooming bulbs. They should be planted from three to five inches in depth, depending upon the nature of the soil and the size of the bulbs. Deep planting is prefer-able in sandy or light soil, but in heavy loam two or three inches is enough. A liberal amound of well rotted manure should be worked into the soil before planting, and a light mulch should be applied for the protection of the bulbs during the winter months.

Adequate drainage is essential in pot culture. Plant the bulbs one inch be low the surface, water thoroughly and put them away in a dark cellar or bury pot and all in the garden, covering the pot under eight or ten inches of soil. In six or seven weeks the bulbs may be brought into the house.

Classified Advertising

HELP WANTED.

GOVERNMENT FARMERS NEEDED-Big salaries. Permanent job. Light work. Write Ozment, 44/F., St. Louis, Mo.

LADY OR GENTLEMAN TO TRAVEL for old established firm. No canvassing. Staple line. \$18 weekly, pursuant to con-tract. Expenses advanced. G. G. Nichols, philadelphia, Pa., Pepper Bidg.

SUITS \$3.75, PANTS \$1.00, MADE TO measure. For even a better offer than this write and ask for free samples and styles, Knickerbocker Tailoring Co., Dept. 530, Chi-cago, 111.

THOUSANDS U. S. GOVERNMENT JOBS open to farmers, men and women. \$65 to \$150 month. Common education sufficient, Write for list positions easily obtained, Franklin Institute, Dept. P-82, Rochester, w York.

WANTED—A MAN TO TAKE CHARGE of farm. Do light farming, superintend and assist in the care of a small pure-bred herd of Holsteins. Good salary and permanent employment. Located Northwest Missouri, Address G. Z. 4711, care Kansas Farmer, Topeka, Kansas.

AGENTS—A ONE-CENT POST CARD will put you in touch with an \$80 a week proposition selling aluminum utensils and specialities direct to consumer. Don't let one cent stand between you and prosperity. Div. A. N. P., American Aluminum Mfg. Co., Lemont, Ill.

REAL ESTATE.

TRADES EVERYWHERE - EXCHANGE ook free. Bersle Agency, El Dorado, Kan.

WELL IMPROVED FARM FOR RENT, 00 acres. A. C. Krape, Garnett, Kan.

WANTED — FARMS AND RANCHES, Owners send description. We have cash buy-ers on hand. Don't pay commission. Write Up-to-Date Realty Exchange, La Salle, Ill. SNAP-FOR QUICK SALE, 323 ACRES, well improved farm in Eastern Colorado, 115.00 an acre takes land, horses, catile and all farm implements. Write owner for par-ticulars. J. Clem, Kit Carson, Colo.

WANTED-TO BUY.

DESIRE 20 TO 100 CHOICE GRADE Holsteins, tick free and tuberculin tested. Only those having reasonably priced cattle need apply. K. L. Wickett, Roff, Okia.

ENGINES.

FOR SALE—ONE 15-HORSEPOWER IN-ternational portable engine, good running order, built-in magneto, circulating cooling system, Cheap for cash. Ray Brinkman, Stilwell, Kan.

MISCELLANEOUS.

TRACTOR FOR SALE — BATES STEEL Mule, in good condition, used since April, Priced right. C. C. Triplett, Fremont, Iowa.

Priced right. C. C. Triplett, Fremont, Iowa. TRACTOR SCHOOL — INCREASING DE-mand for tractor operators has induced us to again conduct the Twin City Tractor School at our factory in Minneapolis. This school offers an opportunity for inexpensive travior instruction of the most practical na-ture. Students see the parts made and as-sembled in our big factory employing 2,500 men, one of the world's largest tractor sheps, Terms are five weeks in length. The first term opens November 13. Other terms start January 2, February 6, March 6. A small tuition fee is charged to insure active interest. Only limited number of competent men admitted. Write today for catalog and Application card. Minneapolis Steel & Ma-chinery Co., Twenty-ninth St. and Minnea-haha Ave., Minneapolis, Minn.

SHEEP

HEEP FOR SALE — SHROPSHIRE, re-bred and grade ewes and rams. J. E. gler, Whitewater, Kansas.

THE STRAY LIST. TAKEN UP-BY ARNOLD STREIT AT s premises two miles east of Bern, Nemaha bunty, Kansas, on September 30, 1916, one d 2-year-old helfer with white under belly, . 1. Kauffman, County Clerk, Seneca, Kan.

R. C. BUFF WYANDOTTE COCKERELS or sale cheap before winter. G. G. Wright, angdon, Kansas, SINGLE COMB BROWN LEGHORNS -Fullet mating only. Tiff Moore, Osage City, Kan.

BIG FANCY AND UTILITY S. C. RED cockerels. Satisfaction guaranteed. Lela Osterfoss, Hedrick, Iowa.

POULTRY.

SALE - WHITE WYANDOTTES, BUFF Orpington ducks. Samsel; Lebanon, Neb.

WHITE ROCKS, SIZE AND QUALITY, priced reasonable. Write G. M. Kretz, Clif-ton, Kansas.

COLUMBIAN WYANDOTTE COCKER-els, hens, pullets; also Italian and Homer pigeons. J. J. Pauls, Hillsboro, Kansas. COCKERELS FOR SALE—ANCONA, \$1; Blue Andalusian, \$1.25. Mrs. John F. Smutny, Irving, Kansas.

QUALITY SINGLE COMB REDS-BAR-gains if ordered soon. Mrs. Elmer Nicholson, Route 5, Wellington, Kansas.

SINGLE COMB RHODE ISLAND RED cockerels for sale. Mrs. Fred Schupbach, Downing, Missouri.

BIG BONED BARRED ROCK COCKER-els, fancy breeding, \$2 each. Bred to lay strain. C. D. Swaim, Geuda Springs, Kan. PURE-BRED ROSE COMB WHITE LEG-horn pullets, yearling hens, cockerels \$1.00. Jennie Martin, Frankfort, Kansas.

FINE ROSE COMB WHITE WYANDOTTE cockerels and pullets, \$1 and \$1.50 each. I. S. Myers, Beatrice, Neb., Route 2.

BUFF ORPINGTON DUCKS, \$1.50 EACH, three for \$4. Mrs. H. E. Bachelder, Fre-donia, Kan.

GEESE, EMBDEN, TOULOOSE, CHINA; turkeys, ducks. All leading breeds of poul-try. Emma Ahlstedt, Roxbury, Kan.

BARGAINS — ALL VARIETIES CHICK-ens, bantams, ducks, geese, turkeys, guineas and eggs. Bare Poultry Co., Box 921, Hamp-ton, lowa.

NICE YOUNG M. B. TURKEYS, SIRED by Panama-Pacific Exposition winner. Hens \$4 and \$5, toms \$6 up. Mrs. H. E. Bachel-der, Fredonia, Kan.

BIG BONED, FARM RAISED WHITE Rock cockerels from silver cun winners, at \$1.25 and \$1.50 each. Buy now and save money. Minnie Clark, Haven, Kansas.

FOR LACK OF WINTER QUARTERS I will sell S. C. R. I. Red cockerels, \$1.00; pul-lets 75 conts each. Mrs. J. A. Bryan, Mo-doc, Kansas.

WHITE WYANDOTTES-CHOOSE COCK-erels now for next year's breeding, from one of best fitrains in state, \$1.25 each. I. B. Pixley, Wamego, Kansas.

SINGLE COMB BROWN LEGHORN cockerels from prize winners and winter layers, \$1 each and up. John W. Moore, Hendrickson, Mo.

S. C. BROWN LEGHORN COCKERELS in lots of twelve or more at a special low price. From greatest layers, none better. Satisfaction guaranteed. Mrs. C. Boudoux, Carona, Kansas.

SPLENDID "RINGLET" BARRED ROCK yearling cocks, \$3.00 each. "Goldbank" mammoth branze turkeys, big-boned lusty young toms, \$5.00 up. Harper Lake Poul-try Farm, Jamestown, Kansas.

POULTRY WANTED.

WE PAY FOR POULTRY, PRICES PUB-lished in Daily Capital. Copy free. Coops loaned without cost. Address The Copes, Topeka.

CATTLE.

REGISTERED JERSEY CATTLE. PERCY Lill, Mt. Hope, Kan.

KANSAS FARMER FOR SALE - TWO REGISTERED JER-sey bulls, hest strains. Will trade for others, L. E. Pendleton, Dodge City, Kansas.

HOLSTEIN CALVES, HIGH GRADES, either sex. Kansas express prepaid, \$22.50. L. D. Arnold, Manhattan, Kan. HIGH CLASS REGISTERED BROWN Swiss cattle for sale, both male and female, at reduced prices. Write or call. Dahlem & Schmidt, R. R. 2, El Dorado, Kansas. FOR SALE-SHORTHORN BULLS: ONE extra good white yearling and a three-year-old roan, both Scotch. R. H. Hanson, Route No. 3, Jamestown, Kansas.

HIGHLY BRED HOLSTEIN CALVES, either sex, 15-16ths pure, crated and deliv-ered to any station by express, charges all paid, for \$20 apiece. Frank M. Hawes, Whitewater, Wis,

HORSES AND MULES.

CLOSING OUT SALE OF FORTY HEAD of Shetland Ponies. Geo. Aid, Gallatin, Mo. REGISTERED PERCHERON STALLION, for sale or trade for one as good or trade for live slock, fillies in way. Roan, nine years old. Sound and all right, weight about 1,750 pounds. Levi Balley, Route 1, Box 43, Thayer, Kansas.

FOR SALE—THE FINE GRAY PERCHE-ron stallion. Comet No. 79390, P. S. of A. Six years, 17 hands, heavy bone and should make a ton horse. Grandson of Casino dams of Brilliant breeding. Winner blue ribbons 1915 and 1916. Price \$750. Sid S. Tate, Lakin, Kansas.

HONEY.

HONEY-TWO 5-GALLON CANS COME, \$12. Two cans extracted, fine flavored, \$10. A. S. Parson, Rocky Ford, Colo.

PURE HONEY-TWO 60-POUND CANS, \$9.50, f. o. b. Las Animas, Colorado. W. P. Morley.

ONE 60-POUND CAN CLOVER, \$6.25; case of two cans, \$12.0;; two, \$11.75; five, \$11.50. Light amber, one 60-pound can, \$5.25; two, \$10.00, f. o. b. Center Junction, Iowa. Cash with order. Satisfaction guar-anteed. W. S. Pangburn.

DOGS.

COLLIE PUPS-U. A. GORE, SEWARD, Kansas,

COLLIE PUPS FROM GENUINE STOCK dogs that drive from the heel. Best of breeding. E. L. Dolan, Route 2, Platte City, Missouri.

AIRDALE — THE GREAT TWENTIETH century dog. Collies that are bred workers. We breed the best. Send for list. W. R. Watson, Box 128, Oakland, Iowa.

PET STOCK.

FERRETS, SINGLE, PAIRS AND DOZEN lots. Guinea pigs, rabbits, Toulouse geese, fox terriers and Angora kittens. Jewell, Spencer, Ohio.

NURSERY STOCK.

PLANT THIS FALL. BUY DIRECT AND save agents' commission and middlemen's profits. Fruit book free. Address Wichita Nursery, Wichita, Kansas, Box K. F.

FARMS WANTED-HAVE 7,000 BUYERS. Describe your unsold property. 514 Farm-ers Exchange, Denver, Colo.

Real Estate For Sale

FOR EXCHANGE Smooth section of land in Greeley County, ansas, clear of encumbrance. What have W. C. BRYANT - ELK CITY, KANSAS 820 ACRES, all tillable black loam, good wheat land; 60 acres winter wheat goes with place. Only \$9 per acre. Booklet on snaps free. Y. Ziegler Realty Company, Oakley, Kansas

DAIRY FARM Forty Acres, one mile out; all alfalfa land, large buildings. A bargain if sold soon. Write for list of farms and ranches. T. B. GODSEY - EMPORIA, KANSAS 100 ACRES, ½ mile from station and store; 65 acres cultivation, orchard, 5 acres in timber, 5 acres in alfalfa, balance native pasture; 4-room house, barn with loft, dou-ble granary, hen house, telephone and rural route, 4 miles from Osage City. Price, \$45 per acre. RENSTROM'S AGENCY, Osage City, Kansas

355 ACRES fine stock and grain farm, 20 acres timber, 90 acres tame grass, 130 acres cultivation, remainder native pasture or meadow; 6-room house, good barn, double corn crib, stock scales, close to school and town, splendid neighborhood. Owner wants to exchange for cheap land or smaller farm. Write for full description. MANSFIELD LAND CO., Ottawa, Kansas.

160 ACRES, 8 miles McAlester, city 15,000, 110 a. bottom land in cultivation. Fair imp. 60 a. corn this year made 35 bu. per a. Price, 32 per acre. Terms. SOUTHERN REALTY CO., McAlester, Okla.

POOR MAN'S CHANCE-\$5.00 Down, \$5.00 Monthly buys 40 acres productive land; some timber, near town. Price, \$200.00. \$10.00 monthly buys 80 acres. BOX 425-M - CARTHAGE, MISSOURI

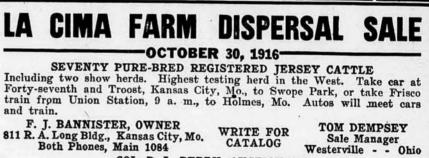
247-ACRE STOCK FARM BARGAIN Nearly all bottom and alfalfa land; 110 a. cultivated, 40 a. pasture, 80 a. meadow; 5-room house, basement, barn 32x72 with large hay mow; abundance water. This is a snap. Worth \$75, price \$50. M. T. SPONG - FREDONIA, KANSAS

STOCK RANCH FOR SALE 600 Acres, 180 acres cultivated, 60 acres alfalfa, well watered, good grass, well fm-proved, well located. Good terms, Price, \$35,000. Will take smaller farm in exchange. Address Bardwell & Bardwell, Manhattan, Kansas

MODERN HEREFORDS ROBERT H. HAZLETT

HAZFORD PLACE, EL DORADO, KANSAS World's Largest Herd of Direct Descendants of Beau Brummel, Anxiety 4th and Don Carlos.

WILLIAM CONDELL, Herdsman.



COL. D. L. PERRY, AUCTIONEER Attend Longview Farm Horse Sale Near By, October 31

FOR SALE-REGISTERED GUERNSEYS. 1 have fifty head and only winter quarters for forty. Will sell yearling helfers and helfer calves, also bull calf and two young cows and yearling bull. R. C. Krueger, Bur-lington, Kansas.

FOURTH ANNUAL HOLSTEIN SAL 50 HIGH GRADE HOLSTEINS AT AUCTION, WEDNESDAY, NOVEMBER 15

Entire Herd of Cattle Will Be Sold at Our Farm, Four Miles West of Lincoln, Nebraska, on O Street Road. Free Lunch at Noon, Sale Follows.

Take cars Capitol Beach to B. & M. Railroad crossing. Autos will be runing from this point to farm rom 0.3(will 1 herd consists of sixty cows from three to six years old; a few springers, balance fresh since October; ninety head of heifers from calves to year-olds. All heifers of breeding age will be in calf. These cattle are all well marked, good sized and show every indication of making good. They will please the most discriminating buyer.

MY AIM IS TO SATISFY EVERY BUYER

And I will guarantee my cattle to be just as represented sale day. All cattle recently tuberculin tested and health certificate furnished with each animal over ix months old. Plan to attend this sale and you will see a fine lot of cattle. good place to buy the best. You Kansas men are invited to attend my sale. you are not more than pleased with the class of cattle I am offering, I will gladly refund your railroad fare and hotel expenses. Terms, cash or ten months' time, 8 per cent interest.

Col. Z. S. Branson, Auctioneer



H. L. CORNELL, - - LINCOLN, NEBRASKA

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FARMS WANTED.



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