

# KANSAS FARMER

For the improvement  of the Farm and Home

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## GRANGE AND WORLD PEACE

National Master Makes a Ringing Patriotic Appeal at St. Louis Meeting

**I**N THIS time of strenuous world affairs, when three-fourths of the nations of the earth are grappling in a death struggle, with the clouds of war rapidly enveloping the earth and the end still hid from view, what shall be the declaration of this great national peace-loving organization of American farmers, so as to maintain before the world those early declarations of peace and arbitration so clearly set forth in our declarations and at the same time ring true to the principles of loyalty and liberty and that shall be the accurate expression of the inner thought of the great host of the tillers of the soil? Of the gravest importance is the position here adopted by this national body, and it is with a full sense of the responsibility involved that we approach this most important of all the subjects that will come before this session."

With the above bold challenge to the delegates in attendance at the National Grange in St. Louis last week, National Master Oliver Wilson introduced that portion of his address devoted to the war situation.

"The history of the Grange, from its very inception," said Mr. Wilson, "is a continuous and unbroken record of devotion to the principles of peace, to the championship of justice, fairness and fraternity, and a repeated avowal of its faith in arbitration as a means of settling all differences between individuals and between nations. All its declarations, upon every issue, and every organized act of the Grange, have been thoroughly consistent with this fundamental teaching of the order; hence, without prejudice, and with a breadth of vision born of long and consistent action, the Grange is now qualified to state its position with the fullest freedom and with the certainty that such a statement of purposes will be as widely listened to, and perhaps fraught with as influential consequences, as was that other declaration of purposes, proclaimed and unanimously adopted in this very city more than four decades ago.

#### GERMAN NATION WORLD MENACE

"It is my opinion that the National Grange should here and now declare to the world its unqualified consecration to the great world task now facing civilization—of driving forever from existence the greatest world outlaw that history has ever recorded, an empire that has prostituted itself in the worship of brute force, that has hurled to the winds all the ideals of honor, morality and decency, that has stooped to acts of murderous lust and wanton destruction unparalleled in all the annals of human affairs, and that constitutes, until destroyed, a menace to every principle of civilization and even of Christianity itself.

"This is no time for the mincing of words; we may as well face facts as they are, and we must reckon with the full magnitude of the task which we have undertaken. It is the mildest sentence that can be pronounced upon the German empire to assert that we look upon that nation with feelings akin to those with which we might contemplate an insane man running amuck in a peaceful community; but with the same inherent sense of self-preservation no effort will

be left undone to check his destructive course and to restore the safety of a threatened community. I, therefore, believe that this National Grange in annual session assembled, as the most representative body of tillers of the soil in the country, should put itself squarely and unreservedly on record in support of the American nation, of the American President, and of the American soldier, and a speedy and thorough finish of the job upon which the United States has entered. To this end let us pledge to that nation, to our President and to those soldiers the utmost limit of our energies—backed by our acres and their productiveness; by our labor and its skill; by all our resources, that those soldiers may be well clothed and fed, and that the awful burden and sacrifice they have been called to make be lightened so far as possible.

#### GRANGE STANDS FOR LIBERTY

"Let us make this National Grange provide the leadership, for all this great nation-wide organization down to the last member of the remotest Grange, that through every possible channel for their energies, the organized Patrons of this land shall stand an unbroken unit for the defense of liberty and democracy and for the overthrow of autocracy and ruthlessness.

"No less a declaration than this, no pledge of support of our Government less clearly spoken, is worthy the spirit of the Grange and the patriotism of its founders, the organization of peace but no less the defenders of national honor and the champion of universal brotherhood. Standing squarely upon this declaration, let us call upon every Grange in the land—State, Pomona and Subordinate—to give of the last full measure of devotion to the speedy accomplishment of the great world task of nations, exerting such energies through every local channel which may be afforded, that the total of these endeavors may constitute the splendid answer of the Grange to the present challenge of barbarism and ruthlessness. At a time like this we must stand steadfast in our convictions of right and in our purpose of action.

"Our declarations here made, as a na-

tional body, must be so positive that no possibility of misunderstanding can exist and no chance of misrepresentation be afforded.

"The Grange has long contended for a league of nations to enforce world peace, and its declarations on this subject one year ago were especially emphatic. By the unforeseen shaping of events we are rapidly approaching the very realization of such an actual league, as nation after nation is arraying itself with the cause of humanity, in a common defense against German aggression and destruction.

#### MUST CRUSH RULE OF FORCE

"Clearly we now witness the supreme struggle of the race—the world's best arrayed against the world's worst. Can there be any doubt of the outcome of such a struggle, and can we hesitate for a moment to throw the full weight of our great organized power into such a cause? Out of such a struggle, grown to its present dimensions, must come the end that peace-loving men have long and fervently hoped and prayed for—the overthrow of war worship, the destruction of the gods of militarism, of force and of mere physical strength, and the exaltation of that code of international morals that shall spell the ultimate peace and progress of a world.

"The cost of the present struggle, in treasure and in blood, represents the most frightful price humanity has ever paid to secure an ideal. Thus in the midst of the darkest hour in humanity's history, we catch a glimpse of the dawning of a new day, even the triumph of the very peace towards which Grange energies and Grange hopes have unceasingly been directed, and to whose complete attainment by the only possible means now available, we here and now highly resolve to rededicate all that we have and all that we are. Thus shall real and lasting world's peace be attained and the opportunities of freedom and liberty be guaranteed to every people."

#### GRANGE PROMOTES CO-OPERATION

Mr. Wilson pointed out that co-operation has been discussed in all its phases since the organization of the Grange and yet it remains an unsolved problem. "If

financial co-operation was ever needed by the American producer and consumer, it is a greater necessity today. In these times when so much is said about the high cost of living and the true condition existing is so little understood by the average city dweller, most of whom believe the producer is to blame entirely for increased prices and that he is coining money at the expense of the consumer, little realizing that the burden placed on them is by the distributors, but such is the fact. This being the case the Grange should solve the problem by finding a way of shortening the road between the producer and consumer, thereby mutually benefiting both producer and consumer.

"The Grange today," said Mr. Wilson in conclusion, "occupies an enviable position before the world. It is respected by all classes. Its influence along legislative lines is greater than ever in its history. Its officers and members are called into the national councils. This position has been gained by a wise, safe and sane policy, by granting the same privileges to all classes that we demand for ourselves.

"May I not ask now on retiring from this high and honorable position to which I was called six years ago, that the Grange banner may ever be found on the side of justice and right, for we desire a proper equality, equity, and fairness; protection for the weak, restraint upon the strong, in short, justly distributed burdens and justly distributed power. These are American ideas, the very essence of American independence, and to advocate to the contrary is unworthy of the sons and daughters of the American Republic."

#### It's Time to Plant Spring Bulbs

The time for planting bulbs for outdoor spring flowers is here. Any time before the ground freezes will suit bulbs of such flowers as tulips, hyacinths, daffodils and crocus, which will furnish such pleasing masses of color about the grounds in the early spring. Any well-drained garden soil will grow good bulbs, although well-rotted stable manure may be added if the soil is rather poor. The depth to plant the different sorts of bulbs varies, but they should be too deep rather than too shallow. About five inches deep will be right for hyacinths and narcissus, and an inch or two less for the bulbs of tulips, crocus, anemone and scylla.

The space to give each bulb also varies with the sort and variety. Plant hyacinths six to eight inches apart, narcissus eight to ten inches apart, tulips five to eight inches apart. Small bulbs, as crocus, scylla and anemone, are generally placed two or three inches apart. After the ground is frozen, mulch the beds where bulbs have been planted with some leaves or straw manure. This prevents freezing and thawing, also "heaving out" of the bulbs. This must be removed early in the spring. In the home garden, bulbs give more pleasing results when planted among shrubbery and plantings of other flowers than when planted in formal beds.

### Typical Grange Defined

**T**HE typical Grange is the one in which the whole quartet of Grange activities is harmoniously developed.

The social side of life is encouraged by bringing the people of the community together in such a way as to make acquaintances and friendships natural and easy.

The intellectual side is stimulated and developed by the properly conducted lecture hour and by the drill in parliamentary practice.

The co-operative work, if properly conducted, will broaden the business capabilities of the members and return to them substantial cash dividends.

In the economic field we should receive such instruction and information as will prepare and qualify each for a more enlightened and useful citizenship.—B. NEEDHAM, Master Kansas State Grange.



# REO

## The GOLD STANDARD OF VALUES

### Salient Features of The Reo Six

50 HORSE POWER, Six cylinder motor cast in threes.

REO DESIGNED, Reo made—as are also all other units including body and top.

126 INCH Wheel Base.

CANTILEVER rear springs—Semi-elliptic front springs.

FULL FLOATING rear axle.

TIMKEN BEARINGS throughout.

NOISELESS spiral-bevel driving gears.

REO ONE-ROD centre control.

HYATT QUIET bearings in transmission—at all points.

MULTIPLE Dry-disc clutch.

BOTH BRAKES operated by foot levers and provided with satchet locks. Extra large and both operating on rear hubs. No hand brake.

CLUTCH AND SERVICE brake are interconnected.

TWO UNIVERSAL joints in drive shaft.

TORQUE SHAFT relieves driving mechanism of road stresses.

SUB FRAME carries motor and transmission.

EXTRA LARGE—and round—spokes in wheels.

OVER-SIZE TIRES—34 in. x 4½ in.

ONE PIECE drop forged front axle.

PERFECT LUBRICATION system at every moving point.

REORADIATOR—Reo designed, Reo made.

REO-REMY Electric Starting, Lighting and Ignition system.

REO STEERING GEAR—exclusively Reo. No back-lash—self adjusting for wear. Positive.

MOTOR BEARINGS—even main crank-shaft bearings—adjustable from the outside.

50 PER CENT OVERSIZE in all vital parts—crank-shaft, axles, driving shafts, gears, frame, wheels, tires.

PRICE IS F. O. B. LANSING AND THE SPECIAL FEDERAL TAX MUST BE ADDED.

## But The Final Answer Is—Upkeep

IT'S ALL RIGHT to exploit the speed possibilities of a car.

IT'S PERMISSIBLE to extol its wonderful "pick-up" and acceleration.

IT'S PERFECTLY PROPER to prove by any kind of stunt you choose that it will climb a hill, though nobody doubted its ability in any one of these directions.

DEMONSTRATIONS of power and of prowess; feats of endurance; and spectacular performances of a momentary nature are legitimate.

BUT AFTER ALL what do such freak tests prove as to the actual staying qualities of the car?

AND ABOVE ALL, what do they prove on the very subject in which you are most interested—cost of upkeep over a long period of years?

WE COULD AN' IF WE would, write a volume—yes a library—on the subject of performance of this Reo Six in all phases of automobile activity.

WE COULD TELL YOU, not of one, but of scores of Reo Sixes that have crossed the continent, with all the feats of mountain climbing, and trail following as well as of speed and mud plugging that trip entails.

BUT WE DON'T consider that important. To a Reo it is about as difficult as is your daily journey to the barn.

WHAT WOULD IT PROVE? Nothing.

BUT WHEN OWNERS say that this Reo Six costs less, year in and year out, for upkeep—repairs and replacements as well as gasoline and oil and tires—than any other six of equal size and power with which they have had experience—that does prove something.

IT SHOULD INDICATE to you that a Six so built must be capable of any feat or test that any sane owner would ever call upon his car to perform.

AND THAT IS THE FACT—ask any Reo Six owner.

YOUR ORDER should be placed at once if you would secure a Reo Six of present quality and at the present price.

JANUARY FIRST there will be a substantial increase in price of this Reo Six—increased cost of materials and of manufacture render it impossible longer to make this car at this price.

SO ONLY ORDERS for delivery prior to and including December 31st will be filled at the present price.

SEE YOUR REO dealer at once. Place your order and obtain what is veritably a gold dollar for ninety cents.

### Reo Motor Car Company

Lansing, Michigan



*Six-Cylinder Reo  
7 Passenger Touring  
\$1385*

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# PUSH THE FALL PIGS

**Provide Warm Dry Quarters. Supplement Corn With Skimmilk or Tankage. Keep Them Free From Worms**

**R**ECENTLY at the hog meeting held at the Iowa Experiment Station Prof. John M. Evvard called attention to the fact that fall pigs had been fed and marketed at the station weighing over 300 pounds. Cold weather pigs that weighed 303 pounds on April 24 this year when they were 254 days old, sound pretty good for pigs that come in the fall. And they were produced economically, requiring only 372 pounds of shelled corn plus thirty pounds of meat meal tankage, a total of 402 pounds of grain for 100 pounds gain. This is a showing that it is difficult to approach even by spring pigs raised under excellent climatic conditions.

To make such marketable 300-pound hogs as these in April it is essential that they be pushed heavily from start to finish. And further that they be pushed heavily upon the right sort of feeds containing the necessary nutrients which go to make for growth and development.

Professor Evvard spoke of some essentials that must be looked into if the fall pigs are to be a pronounced success. Lack of attention or neglect of any one of these essentials may cause disappointment:

See to it that the sows during the summer time while carrying their young in utero are given an abundance of exercise on good pasture such as alfalfa, rape, or red clover, or bluegrass in which plenty of white or alsike clover is growing.

Feed these sows well, giving them a little milk or a little meat meal tankage in addition to the corn allowed during the last couple of months of pregnancy. It is at this time that some 90 per cent of the dry matter of the young growing pigs is laid down before farrowing.

Don't have the sows farrow too early nor too late. The ideal time of the fall is about the first and second weeks of September.

Leave the sows farrow out on pasture if possible. Do not run them up to a large hog house where it is dusty and where pasture is not available; keep them under natural conditions and let them do their bit under the best possible surroundings.

Feed the suckling cows well, giving them an abundance of suitable feeds, which feeds in ordinary times should be centered around corn, and perform the supplement rather than the substitution function. Always keep in mind economy. However, this year wheat middlings or fine oatmeal or hominy feed were all cheaper than corn, but ordinarily this is not true. If a little milk can be spared, so much the better.

At the Iowa Experiment Station farm they like to self-feed the sows, giving them free access to such rations as these:

Shelled corn or ear corn self-fed plus meat meal tankage self-fed plus wheat middlings self-fed plus salt self-fed; corn self-fed plus meat meal tankage self-fed plus salt self-fed; corn self-fed plus peanut meal self-fed plus meat meal tankage self-fed plus salt self-fed; corn self-fed plus meat meal tankage self-fed with as much buttermilk or skim milk as can be allowed plus salt self-fed; corn self-fed plus peanut meal self-fed plus meat meal tankage self-fed plus salt self-fed; corn self-fed plus peanut meal self-fed plus wheat middling self-fed plus salt self-fed.

Corn can be substituted in the above rations with wheat middlings when middlings can be bought at 10 or more per cent cheaper than corn; with hominy feed which is practically equal to corn; fine ground oatmeal which is not quite equal to corn on bluegrass but apparently is more than equal to ordinary corn on rape pasture; or other substitutes. It is best if these sows can run

on good pasture receiving the above rations. If the pastures are alfalfa, or red clover, or rape, much grain will be saved, particularly the supplementary grains.

Have a warm place for the fall pigs to sleep and rest after they are taken into winter quarters. Small Iowa cable roof hog houses are fine for this. If the skylight can be arranged in the roof to give sunshine, so much the better. In a small 6 x 8 house we can take care of from five to ten fall pigs, depending upon their size.

Keep their beds dry by changing them frequently. Warm, dry quarters mean a great deal.

See that the pigs get plenty of fresh air. In the ordinary gable roof house openings should be made in the peak and under the eaves.

Feed the pigs inside where it is warm. Do not make them go out into the cold to eat. If you must make them go out for anything, make them go out to get their water.

Keep them sanitary. Use crude oil to get rid of the lice, and santolin and calomel to get rid of the worms. Eight grains of santolin and five grains of calomel to 100 pounds of pig is a good worm medicine. This can be mixed with the regular feeds. In case of a 200-pound pig give about one and one-half times the amount as for a 100-pound pig.

Keep open water before the pigs. One of these kerosene heater watering devices is fine in order to keep the water from freezing. This will insure that the pigs can have free open drinkable water at any time their thirst demands it.

It is not necessary that the pigs run over the whole farm. You had better keep them confined to a small lot. The Iowa station pigs had the run of a lot about 15 x 90 feet, and they made the gains recorded.

Feed the pigs abundantly and well. Such rations as these are splendid:

Shelled corn self-fed plus meat meal tankage self-fed plus salt self-fed.

Shelled corn self-fed plus buttermilk at the rate of 4 or 5 pounds to one of grain when pigs weigh 50 to 100 pounds; 3 to 3½ pounds as they go from 100 to 150; 2 to 3 pounds from 150 to 200; 1 to 2 pounds from 200 to 250, and from ¼ to 1 pound after they pass the 250-pound mark.

Fall pigs that grow and fatten in cold weather can easily be made to reach 250 to 300 pounds when eight months of age. They go on the good markets of April, the highest market of the year outside of September, and being marketed in April, as they can be, insures an income at a time when ordinarily there is not much of produce to be sold from the average corn belt farms which do not engage in the live stock business.

"Treat the fall pig kindly, look to his wants, and he will respond gallantly," said Professor Evvard in conclusion.

## Good Animals Win

Anyone who has made a study of the fairs and live stock shows of the present season cannot fail to note two conspicuous features, one the dominating numbers and the excellence of the Shorthorn

entries and the other the conspicuous winnings of new and hitherto inexperienced breeders.

In spite of high feed costs the entries at the season's shows were well conditioned with very few exceptions and it was a matter of general comment among fair goers that the uniformity and superior merit of the entries, particularly among the younger cattle, surpassed former years.

The fact that various new exhibitors entered the contests and claimed a generous share of the prizes added interest to the season's shows. A number of champion awards were captured by young men on cattle of their own breeding who had never heretofore entered the contests. Their enthusiasm has been stimulated by the encouraging attitude of the breeders who have long been patrons of shows and who in not a few instances were obliged to hold places farther down the line as a result of the high merit of the entries of the new exhibitors. At the American Royal the championships in the futurity classes were limited to new exhibitors.

The lesson drawn from the awards is this: That ownership or long experience in breeding and showing cattle are not considered in the placing of the awards. It is a matter of the fittest. Judges may err in their conclusions, but the boy from the backwoods township has an equal chance with the veteran from the best known breeding establishment in the country, provided the individuals the two lead into the ring compare in individual merit. Many a young man unknown in live stock circles beyond his community has led his animals into the ring and taken his place far up among the best productions of the best known herds of the land and all because, to use a current expression, he "had the goods."

It is an open field and many a man has risen from comparative obscurity into an acquaintance country-wide in its scope because he was able to produce animals of a standard that claimed expert recognition in the show rings.—FRANK D. TOMSON.

## Missouri Farmers Organize

(Continued from Page Five)

the average farmer going backward rather than forward. Hence, to charge up cheerless farm homes, bad public highways and poor rural schools which handicap country boys and girls in the great battle of life, to a "lack of progressiveness" on the part of the average farmer—this is utterly puerile, for the farmer likes the good things of life and is as proud of his children as are those who live in the towns and cities—and the only reason why he has not long since provided there is because he hasn't had the money!

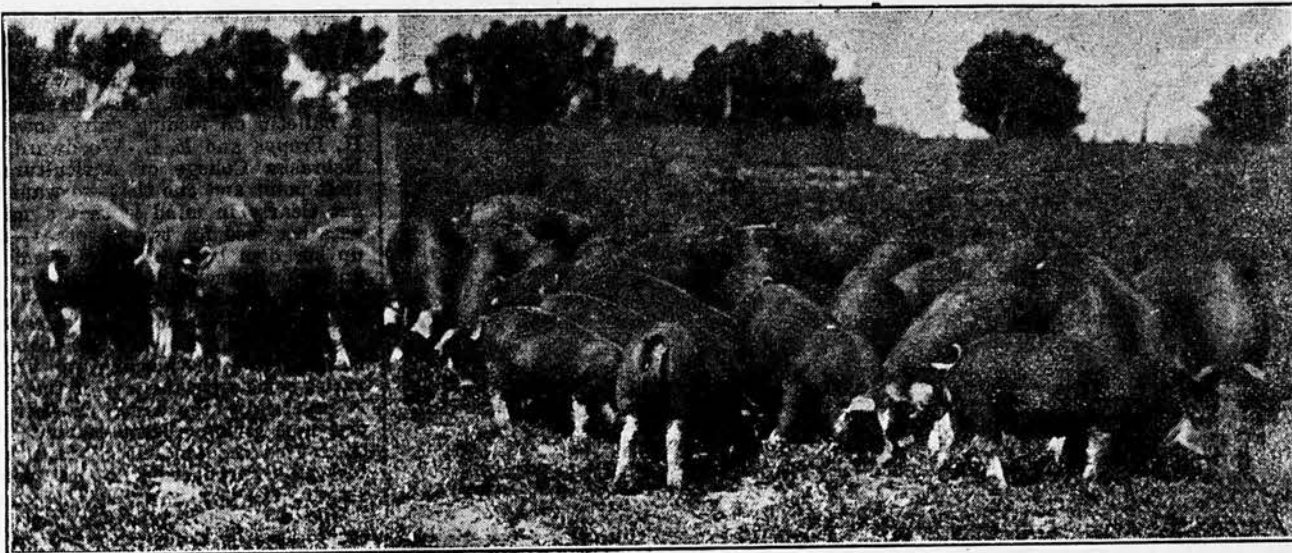
Acting upon the theory that our farming methods were chiefly at fault, our splendid agricultural colleges some years ago began a powerful campaign to "make two blades of grass grow where only one had grown before." That crusade marked the advent of the county farm agent and within itself was a thoroughly wholesome doctrine. In the first place, the more generously and econom-

ically a farmer can produce, the cheaper he can afford to sell—or, to put it another way, the more he will have left out of the price he is compelled to accept. Also, society has a right to expect the farmer to feed and clothe it at as low a cost as is consistent with sound business methods and therefore economical production is the farmer's duty in the interest of the masses. But while thousands of earnest farmers responded heartily to the "two blades of grass" propaganda, their enthusiasm was short-lived—for when men feed cattle with the aid of silos, balanced rations, etc., and still come out at the small end of the horn—or when all their brawn and brain leaves them behind on the production of a wheat or corn crop, they lose heart—and thus we have come upon a time when both the progressive and the "hound dog farmer" are "slipping," the only difference being that the latter is slipping the faster—and when therefore of far greater importance than raising the second blade of grass is getting a square deal for the first blade!

In the meantime, realizing that there is something wrong—that the American farm is sick and that this sickness is affecting a lot of other enterprises and industries—the farmer has, during the last few years, become an object of patronizing solicitude on the part of bankers and other business men who suddenly made up their minds to "go to the rescue"—who have come to regard the farmer as the big "industrial incompetent" of the nation who needs to be taken by the hand and led into the promised land. Thus only last spring the Federated Commercial Clubs of my own state held a two days' session to discuss the slogan, "A county farm agent in every county and better seed corn for the 1917 crop"—and yet in this audience of several hundred delegates and speakers there was not a solitary out and out farmer. And this is merely one of hundreds of such meetings which have been held all over the country during the last few years.

However, I do not want to be misunderstood in this connection—for the vast majority of these men mean well and are willing to back their theories with their dollars. Again, if their presumption irritates the farmer, he is himself to blame—for it is true that the lack of agricultural prosperity is injuring the banker, manufacturer and merchant and since the farmer has shown no inclination to right conditions, it is little wonder that these men have concluded to take a hand—even though they do not understand the farmer's complex problems and, not understanding them, but complicate and make more difficult their solution. While there should be a close bond of sympathy between the farmer and the business men of the town, and while there are many things in which they can co-operate effectively, in the last analysis the farmer is the only man who can correct the farmer's wrongs—and any interference from the outside will delay rather than aid the process.

(EDITOR'S NOTE.—This is the first of a series of articles by Mr. Hirth, in which he tells of the accomplishments of the Farmers' Clubs of Missouri.)



PROPERLY HANDLED FALL PIG CAN BE BROUGHT TO THREE HUNDRED POUNDS BY APRIL, WHICH IS ONE OF THE GOOD MARKET PERIODS OF THE SEASON





## The Fate of the Unprepared

Among the remarkable events of this war no fact stands out more startlingly than the tragic sacrifice of Russia's unequipped soldiers.

The army has been victimized by intrigue and treachery. Guns were sent to the front without ammunition and ammunition without guns. Supplies were provided that when unpacked proved to be rubbish. Left stranded by communications that broke down under slight pressure the brave Russian troops hurled themselves again and again against foes perfectly prepared.

From the very verge of victory they doggedly fell back fighting with stones and clubs and iron bars, resisting heroically but ineffectively.

No thought can be more abhorrent to Americans than that of our

boys ruthlessly slaughtered because of lack of equipment or support which it is the first business of us at home to supply.

Our Government, never before so powerful, is working prodigiously in the preparation of armies and means of warfare. Throughout the nation there is a unity of purpose that is piling on the altar of liberty every personal ambition and corporate gain.

Mines, factories, farms, shipyards, the counting houses and shops of every industry are laboring day and night to supply the sinews of war.

The Bell System is co-operating to mobilize production, transportation and communication, and is using its every energy to speed up American defense.



AMERICAN TELEPHONE AND TELEGRAPH COMPANY  
AND ASSOCIATED COMPANIES

One Policy One System Universal Service

## READY My 1918 Book

### Send for It—Buy Direct—Save Money

Stop where you are if you are about to buy a Spreader, Engine, Separator, Tractor. Send for my new 1918 Book and get my proposition. Let me explain how buying direct—getting your implement straight from the factory to your farm—saves you from 25 to 40%. I am the actual maker and sell you at lowest manufacturers' price based on gigantic volume. I cut out all waste between you and my factory.

### Spreaders, Separators, Engines, Tractors

and the many other implements I sell in this way, and let you keep the saving at home and in your own pocket. My 1918 New Models are ready. Spreaders with 11 exclusive improvements; Engines from 1 1/2 to 18 H. P.; Separators in four splendid sizes; Tractors 12-20 size.

**WRITE TODAY** Send for my 1918 Book now. Find out my low prices and how much you can save. Don't put it off. My prices will never be lower. So write tonight—a postal will do. Just say, "Send me your 1918 Book," and mention implement wanted.

WM. GALLOWAY, Pres. WM. GALLOWAY CO., 217 Galloway Sta., Waterloo, Iowa



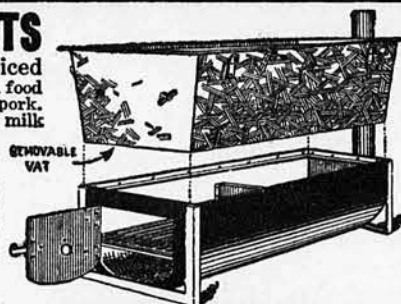
## INCREASE PORK PROFITS

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## KANSAS FARMER DAIRY CLUB

### Feeding Dairy Cows

**W** E REPRODUCE on this page some charts which may help you to understand some of the points in dairy feeding which we have been trying to explain. These charts are from a bulletin on feeding dairy cows, by D. H. Propps and E. G. Woodward, of the Nebraska College of Agriculture. The first point and one that we want you to get clearly in mind is that a milk cow uses her feed for two purposes—keeping up her own body and giving milk—and under ordinary conditions a cow giving milk first takes from the feed all she needs for maintenance and uses what is left for milk. The amount required for maintenance, or keeping up the body, varies some with the size of the cow, but is practically the same whether she is dry or is giving a large amount of milk. Of course the amount of feed required for milk production varies with the amount the cow is giving.

Figure 1 illustrates the part of the ration used by the cow for her own body and the part used for milk. The top diagram is meant to show the ration of

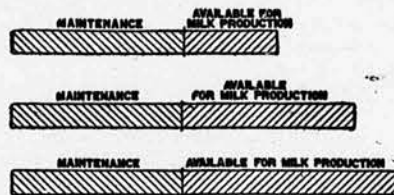


FIG. 1—RATION FOR LOW-PRODUCING COW, MEDIUM-PRODUCING COW, AND HIGH-PRODUCING COW

a low producing cow, the second a ration for a medium producing cow, and the bottom the ration for a high producing cow. We tried to show you this point in a different way in the Dairy Club department of the issue of October 20. You can see from these illustrations that the low producing cow uses only about one-third of all the feed she eats for milk production. The medium producing cow uses about one-half of her ration for milk, and the high producing cow uses about three-fifths of her feed for making milk. Since so much more of the total amount of feed eaten by the high producing cow goes to milk, it is plain to see that she is a more economical producer, because she does not take any more to keep up her own body than the one producing a small amount of milk.

The heavy producing cows are quite often underfed. They require a large amount of feed to supply the nutrients which go to the making of the large amount of milk. If such a cow continues to produce to her full capacity, she must have in her daily feed enough to supply

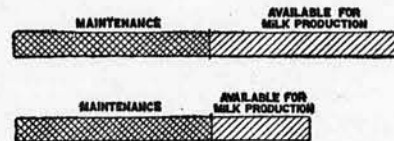


FIG. 2—A FULL RATION AND A THREE-FOURTHS RATION

the material that goes to the milk. If too small an amount is given, she will in time cut down the milk to correspond with what she has left over after the maintenance requirements have been met. Figure 2 illustrates what happens when we cut down the ration of a good producing cow. The upper chart is meant to illustrate a full ration; that is, the cow is eating and digesting of properly balanced feeds all she can handle, and about half of the feed is being used for milk. The lower diagram shows what happens when the ration is reduced one-fourth. It is easy to see that there is only half as much left for milk. If she was giving forty pounds a day on the full ration, cutting it down a fourth would leave her only enough nutrients for twenty pounds of milk and she would soon have to reduce the amount of milk given to that quantity. Since after the cow has supplied her own body all the remainder of the ration is used exclusively for milk, it is a mistaken idea from the standpoint of economy to fail to supply the really high producing cow with enough feed so that she can produce at or nearly her full capacity.

A low producing cow may be fed so much that she gets more than she can use for milk. A cow of this kind after giving as much milk as she is capable of giving, uses what is left in her own body

—in other words, she gets fat. Figure 3 illustrates this point. The top diagram is meant to illustrate what happens when a full, well balanced ration is fed to a low producing cow. A portion of the nutrients which in the real dairy cow would be used for milk, is used for body fat. The economical way to feed such a cow is illustrated in the lower diagram. When fed in this way the cow does not have any surplus and therefore does not waste any in fattening her own body. This explains one of the general rules to follow in feeding dairy cows, which is to reduce the ration if the cows begin to gain in weight. Of course this is assum-



FIG. 3—FULL RATION FOR LOW-PRODUCING COW AND ECONOMICAL RATION FOR SUCH COW

ing that they are in good working condition. While a real dairy cow never gets fat while giving milk, they must not be permitted to get extremely poor.

During the dry period high producing cows can store surplus nutrients on their bodies as fat and later draw on it as reserve material for making milk. When a cow does this she gradually falls off in flesh. When really high producing cows freshen in a fairly fat condition, they will begin to fall off during the first few weeks after freshening until finally they have used up the reserve. If you are sure you have a really high producing cow, do not be afraid to have her get fairly fleshy during the dry period.

The charts here reproduced were first worked out by Prof. C. H. Eckles, of the Missouri College of Agriculture, in illustrating these points in feeding dairy cows. They are given in his book entitled "Dairy Cattle and Milk Production," which is one of the good books on this subject.

### Names Cow Martha

Gary Cook, of Easton, Leavenworth County, in sending in his report for last month, writes as follows:

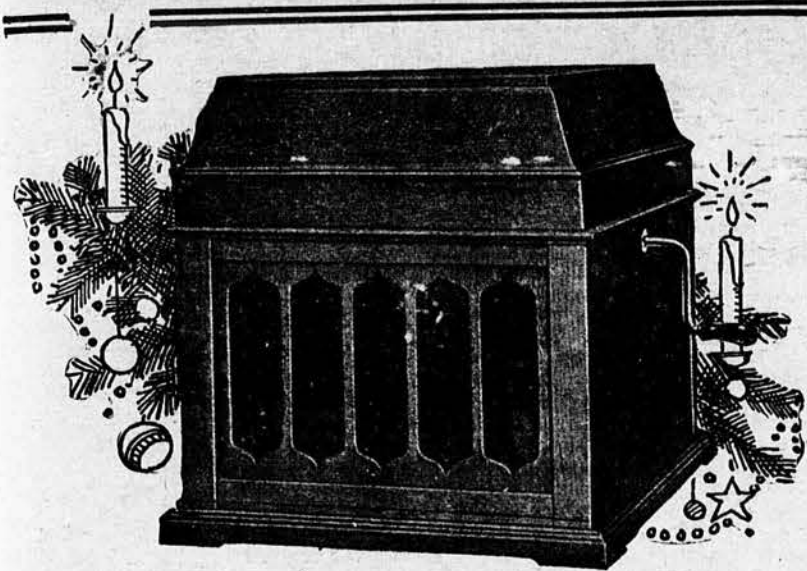
"I will send Martha's picture next week. She was born on the twenty-second of February; that is why I named her Martha. I am going to sell my calf today and pay the money on my note with my milk check. I have fed my calf half of Martha's milk, and what I sold during October brought me \$6.61 with her feed expense out."

### The Purpose of the Head

Every boy has a head topside his neck. The head was not put there by accident, nor as ornamental bric-a-brac. Of course the head, being equipped with a face, is useful as a means of identification, but if that was all it was good for what would be the use of identifying you? Nobody would care a rap whether you were Pete or Jim or the kid that lives over the bakery. The real purpose of the head is to be a packing case for the brain, and the brain is a machine for the manufacture of thoughts. So you want to learn how to use it no matter what comes up—in an emergency just as well as in a contest to guess how many beans there are in a jar. There's a heap of difference between thinking and the sort of product a lot of folks' brains turn out. One brain that can think is worth a hundred arms strong enough to lift a heifer. That's why a general is more valuable than a great many thousands of soldiers, each one of whom could probably lick him beautifully in a fist fight. It's because he can think.—The American Boy.

In looking over the October news letter of Agricultural Agent L. C. Christie, we note that he has given the year's record of a Holstein cow owned by J. B. Stevens, of Liberal, for the year ending October 6, 1917. The milk sold amounted to \$323.50, and the amount used at home was estimated at \$75, or a total of \$398.50. The feed for the year was valued at \$196.05. This gives a net return of \$202.45 and the cow cost only \$85. She has increased in weight about 400 pounds during the year, and no value has been assigned to the manure, which if properly handled as fertilizing material would be worth from \$35 to \$40.





# What kind of music will there be in your home this Christmas?

**CHRISTMAS AND MUSIC** are inseparable. You cannot think of Christmas without thinking of music—all kinds of good music. What kind of music will there be in your home this Christmas? What instrument and what voices will entertain you?

Have you ever stopped to realize that all voices, and all musical instruments, excepting one, have their limitations? As wonderful as a piano is, it can give you only piano music; as beautiful as an organ is, it can give you only organ music; as marvelous as the human voice is, it can only sing. It is the same with the violin, the cornet, the accordion or any other instrument which you might have in your home or might consider purchasing. These are excellent in their way, but we are sure you will agree that none of them is completely satisfying.

It is different with the New Edison Diamond Amberola. It has no musical limitations, for it is all voices and all instruments in one and it brings into the home all kinds and classes of music, from the greatest of operatic numbers sung by the most famous of singers to the simplest of popular and comic songs sung by the cleverest performers in their line; from the performances of great military bands and symphony orchestras to the snappy music of the ever popular banjo.

The New Edison Diamond Amberola is not an instrument that you must forbid the children touching for fear of putting something out of order. Even a very young child can readily learn to operate this marvelous instrument, for it is simplicity in itself and is not readily put out of order, and the Blue Amberol records are almost unbreakable and unwearable. With the Amberola you do not even have to bother to change needles. There are no needles to change. Instead of needles Mr. Edison uses a GENUINE DIAMOND, ground and polished to fit perfectly in the grooves of the record, and so perfectly round and smooth that it has

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Send for the Beautiful Amberola Booklet. It is FREE

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—thrilling band records that just make you feel like getting up and marching around the room—noble patriotic numbers that would stir the heart of a traitor—tender old and new songs and ballads that go straight to your heart—majestic grand opera that appeals to the deepest of human emotions—lively dance pieces, ragtime and funny records—entertainment of all kinds for young and old.

So that you may have an idea of the many wonderful selections to be found in the Blue Amberol Record Catalog, we have picked a few here and there and they're printed below. Look them over. You are sure to find many of your favorites.

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Hail! Hail! Day of Days  
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It Came Upon the Midnight Clear  
Joy to the World  
Night Before Christmas  
Old Jim's Christmas Hymn  
O Little Town of Bethlehem  
Once in Royal David's City  
Ring Out the Bells for Christmas  
Ring Out, Wild Bells  
Santa Claus  
Silent Night  
Star of Bethlehem  
Sweet Christmas Bells  
When Christmas Bells are Ringing

### SACRED

Ave Maria  
Beautiful Isle of Somewhere  
Crucifix  
God is Love, His Mercy Brightens  
My Ain Country  
Rock of Ages  
Face to Face

### QUARTETS

The Bridge  
Come Where My Love Lies Dreaming  
Darling Nellie Gray  
Maple Leaf Forever  
Massa's in de Cold, Cold Ground  
Laughing Song  
The Rosary  
We're Tenting To-night  
Way Back Home

### HAWAIIAN

Aloha Oe (Farewell to Thee)  
Kamehameha March  
Medley of Hawaiian Airs  
Moani Ke Ala  
Waiata (Waltz Song)  
Kolea  
Pulape

### BANDS

At the Mill March  
Battle of the Marne—Descriptive  
Benediction of the Poignards—Huguenots  
Glowworm  
Humpty Dumpty Rag  
In the Clock Store—Descriptive Fantasia  
Jolly Coppersmith—with Anvil, Singing and Whistling  
My Old Kentucky Home Fantasia  
United States Passing in Review

### INSTRUMENTAL SOLOS

I Hope I Don't Intrude, Bells  
King of Air March, Xylophone  
Kiss Waltz, Saxophone  
Lullaby—Jocelyn, Cornet  
Medley of Southern Airs, Banjo  
Old Black Joe, Piano  
Peg o' My Heart, Violin

### DANCE

Carnival One-Step  
Destiny Waltz  
Good-Night Waltz  
Money Musk Medley Virginia Reel  
Oh, You Silly Bells Medley Two-Step  
Old Comrades March  
Stop! Look! Listen! Fox Trot  
Ticking Love Taps Fox Trot  
Leg of Mutton One Step

### GRAND OPERA

Elisir d'Amore—Una furtiva lagrima  
Faust—Air des Bijoux  
Pagliacci—Prologue  
Rigoletto—Caro nome  
Trio from Faust  
Bridal Chorus from Lohengrin  
Mignon—Ahl! Non credevi tu

### VOCAL DUETS

All Aboard for Blanket Bay  
As We Parted at the Gate  
Auf Wiedersehen—The Blue Paradise  
Barcarolle (Oh, Lovely Night)—Tales of Hoffman  
Every Little Movement—Madame Sherry  
For You  
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## Ration Lacks Protein

A HARPER County reader asks the following questions about feeding milk cows: "We have kafir fodder, kafir hay—drilled in and cut before grain ripened, Sudan grass, and silage made from kafir and corn with quite some grain on it. Also good wheat straw. At present the milk cows are on some pasture grass and are fed kafir hay. One fresh cow gives about two and a half gallons of milk a day on this. Another has been milking fourteen months, but will not be fresh until May. She is a splendid three-year-old heifer, but gives only about four quarts a day now and is quite thin. Her dam is a good Jersey and the sire a registered Holstein. Would it pay to stable her this winter, with feeds as high as they are, in order to benefit her in freshening next spring? Please give suggestions on what we should buy to balance our ration. I believe proper feeding would increase the flow of milk in each one of these cows a gallon a day. Will soon have two fresh cows that will give four gallons a day each on fodder and thirty pounds of silage daily. How should I feed them for best results? Will they pay for alfalfa at \$30 a ton or cottonseed cake at \$51 a ton?"

Every one of the feeds mentioned is low in digestible protein. Next to not feeding liberally enough, the most common mistake made in feeding milk cows is not giving enough protein. Nothing can take its place in the ration. If it is deficient in quantity in the feeds used, supplying an over-abundance of fattening feeds will only result in waste. A good milk cow simply cannot eat enough kafir fodder or hay and silage to supply the protein necessary for a heavy milk flow. Cows of decided dairy temperament may do fairly well for a time, but they are sure to run down in condition because of the drain on their own body tissue.

The three-year-old heifer mentioned that now gives four quarts of milk a day ought to be so fed as to come to her next freshening period in May in fairly good condition. She has some growth yet to make, and this requires protein.

Since the protein cannot be supplied in sufficient quantity in the feeds on the farm, it must be purchased, and even at \$51 a ton cottonseed cake or meal is the cheapest source of this nutrient. It contains at least three times as much as alfalfa hay, and the cost of a ton is less than twice that of alfalfa. Sudan grass is one of the sorghum group that seems to have more protein than is ordinarily found in any of the other plants of this group. Its value as a dairy feed has not been fully established, but the indications are that it is better than kafir, cane, or other forages of the sorghum family. In view of this fact, we would advise using the Sudan grass hay as largely as possible in feeding the milk cows. Of course they should have a good liberal ration of silage, at least thirty-five or forty pounds daily. There is some grain in silage, but the actual amount in forty pounds is very small.

Cottonseed meal or cake in the nut form can be fed as the sole concentrate with good results by scattering it over the silage. As a rule when such low protein roughages are fed, it is the common practice of good dairymen to make up a grain mixture consisting of three parts corn, one part bran, and one part cottonseed meal, adding an additional pound daily of meal to the heavier producing cows. Because of the high price of corn it probably would be more economical to leave this out of the ration, especially if the silage is of good quality. If oats can be purchased at a price not greater than the price of corn by the pound, they can profitably be fed to milk cows. A good many dairymen are feeding oats this year because at the present prices they are about the cheapest source of the necessary nutrients for milk production.

We believe that in this particular case the cheapest way to balance the farm-grown feeds on hand would be to buy the cottonseed meal and feed it with the silage, giving probably not more than three or four pounds daily to a cow. The exact amount to feed will depend largely upon the amount of milk the cow

gives. It is almost impossible to feed intelligently without keeping a milk record and we believe that with the present high prices of feeds no dairyman should attempt to handle good milk cows without keeping a milk record.

While feeds are high in price, we should not overlook the fact that dairy products are also high in price. Skim milk has a value for feeding far beyond what is ordinary given. It is an ideal feed to balance a corn or kafir ration for hogs, and with hogs at present prices skim milk ought to be worth from 75 cents to \$1 a hundred pounds.

Dairy cows must have warmer shelter than beef cows. They do not have the power to resist the cold and the best of results cannot be expected if they are forced to be out in unsheltered yards during the cold winter weather. This young heifer spoken of as being rather thin should by all means be given good shelter during the coming winter. It probably will not be necessary to keep her in a stall, but she should at least have a good warm shed in which to run.

### Value of Pure-Bred Sire

The value of a pure-bred dairy bull as a herd sire is strikingly shown in the reports of some experiments upon a scrub herd at the Iowa Experiment Station. In this experiment pure-bred bulls

were mated with scrub cows, and the resulting heifers were bred back to approved bulls of the same breed. In the case of one group, the original scrub cows averaged 3,255 pounds of milk and 161 pounds of fat in a year. The average of the daughters from these cows was 6,311 pounds of milk and 261 pounds of butter fat. The granddaughters averaged for the year's production 11,295 pounds of milk and 431 pounds of butter fat.

There is no surer nor safer way of building up a high-producing herd than the use of a high-class dairy-bred sire.

### Completes Third Record

Murne Cowan 19597, former world's champion over all breeds, and still holding the highest record for Guernseys, has come back with a third record. This record, completed when twelve years old, while not equal to her preceding ones, demonstrates her great staying power and ability as a producer. No effort was made to break or even equal her former record, but rather to show what she would do under ordinary conditions.

Her record of 24,008 pounds of milk and 1,098.18 pounds of butter fat, which won her the coveted title of world's champion two and one-half years ago, still remains unchallenged among Guernseys. The average for her three yearly records is 19,373.6 pounds of milk and 911.78 pounds of fat, figures which we think have not been approached by a cow of any breed.

She has three sons and three daughters registered, and still has many years of usefulness ahead of her. Neither her sire nor her dam have Advanced Registry records, not from lack of ability, but because their owners did not give them the opportunity. Her grandsire, Lily Ella's Jeweler 5417 A. R., has forty-four

registered daughters, six of which have made nine Advanced Registry records, and thirty-eight sons, four of which are in the Advanced Registry, and five others with one Advanced Registry daughter each.

The record just made by Murne Cowan was supervised by the dairy department of the Ohio University, from which a different man was sent each month to conduct the tests.

### Dairying Brings Steady Income

The young farmer with the milk cow is the fellow whose credit is good the year round. He has a decided advantage over the farmer without milk cows in that he has a steady income the year round and in this way does not have to depend so much on credit. With this regular income he pays his grocery bills and his interest—not only that but he has one of the most profitable means of utilizing a part of his feed. A few good cows will insure his success.

There is no safer plan for the young man starting into farming with limited capital than the keeping of a few good dairy cows.

The young farmer may hesitate to buy milk cows because feed is high and because he does not like to milk. The feeds are high but milk products are steadily increasing in price.

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## Drainage Increases Production

IN THESE days of labor shortage, making the acre yield more without increasing the work put in on a given area is recognized as a logical proposition. In this connection the statement of J. B. Marcellus, irrigation and drainage engineer of Kansas, that every acre of Kansas land that can be drained and used in the production of food products will not only help win the war but will be a permanent addition to the value of the farm, state, and nation, is of special significance.

Not only should steps be taken to improve every swampy acre or tract subject to overflow, but in the western part of the state an effort should be made to increase production through means of irrigation projects. At present prices irrigation by pumping readily can be made profitable.

Kansas usually is not considered a state with great need for either drainage or irrigation, but the report of the drainage and irrigation engineer for the year ending June 30, 1917, shows that fifty-five farms were examined for drainage improvements.

The improvement of these farms called for the use of 500,000 linear feet, or nearly 100 miles of tile. Under average conditions this means a direct benefit of approximately 1,000 acres, and an increase in value to each of the fifty-five farms.

In addition to tile drainage improvement the report shows assistance given on twenty-seven drainage projects. They concerned the prevention of overflow of land.

Some of these districts involve 15,000 acres. With an average of 5,000 acres for each project, this would show 135,000 acres which have been or can be increased in efficiency. Special flood and storm problems in a dozen different localities were also given consideration.

In the western part of the state an examination was made of forty-seven irrigation projects. Most of these were pumping plants.

### Government Insures Soldiers

In providing insurance for its soldiers and their dependents, the United States Government has inaugurated a movement never before undertaken. The Secretary of the Treasury, through the Bureau of War Risk Insurance, has been charged with the administration of the War Insurance Law enacted by the Congress as a measure of justice to the men and women who have been called to give their lives, if need be, in the service of their country.

In a statement addressed to the officers and enlisted men and women of the army and navy of the United States and their relatives, Secretary of the Treasury W. G. McAdoo says:

"I wish to acquaint you with the benefits and privileges which your Government has placed at your disposal. It is essential that you and your families at home should know of your and their rights under this law in order that full advantage may be taken of them.

"To care for the wife and children of the enlisted man during his service, the War Insurance Law compels him to contribute up to one-half of his pay for their support. The Government, on application, will generously add to this an allowance of from \$5 to \$50 a month, according to the size of the family. Moreover, if the enlisted man will make some further provision himself for a dependent parent, brother, sister, or grandchild, they may be included in the Government allowance.

"If, as a result of injuries incurred or disease contracted in the line of duty, an officer or enlisted man or an Army or Navy nurse should be disabled, provision is made for compensation of from \$30 to \$100 a month to him, and, should he die, compensation of from \$20 to \$75 a month will be paid to his wife, his child, or his widowed mother.

"In order, however, fully to protect each person and family, Congress has made it possible for every soldier, sailor, and nurse to obtain life and total-disability insurance. This insurance applies to injuries received while he or she is in the service or after he or she shall have left it.

"Exposure to the extra dangers of war makes the cost of life insurance in private life insurance companies prohibitive. It was, therefore, a plain duty and obligation for the Government to assume the risk of insuring hundreds of thousands of our soldiers and sailors who are making the supreme sacrifice. Under this law, every soldier and sailor and nurse, commissioned and enlisted, and of any age, has the right, between now and February 12, 1918, to take out life and total-disability insurance up to \$10,000 at very low cost, with the Government without medical examination. This right is purely optional. The soldiers and sailors are not compelled to take insurance, but if they desire to exercise the right, they must do so before February 12, 1918. The cost ranges from 65 cents monthly, at the age of 21, to \$1.20 monthly, at the age of 51, for each \$1,000 of insurance. This is a small charge on a man's pay—small in proportion to the benefits it may bring. The premiums will be deducted from his pay, if he desires, thus eliminating trouble on his part.

"To provide adequate protection until February 12, 1918, during the period when the soldiers and sailors are learning the details of this law, the Government automatically insures each man and woman, commissioned or enlisted in the military service of the United States. It pays the man \$25 a month during total permanent disability; if he dies within twenty years, it pays the rest of 240 monthly installments of \$25 each to his wife, child, or widowed mother.

"I desire to call the provisions of this just and generous law to the attention of our officers and enlisted men and women so that they may not be deprived of their rights through lack of knowledge. Full information may be obtained from the Bureau of War Risk Insurance of the Treasury Department, Washington, D. C. I earnestly urge that the officers of the Army and Navy give to the men under their command all possible aid in helping them to understand fully the benefits that this insurance may bring to their families and the small cost at which it may be obtained.

"This is the greatest measure of protection ever offered to its fighting forces by any nation in the history of the world. It is not charity; it is simply justice to the enlisted men and to their loved ones at home, and each and every one of them should promptly take the benefits of this great law."

### Storing Potatoes

If wastage is to be avoided, potatoes must be stored under proper conditions. The following points may well be observed:

Sweating and heating occur when freshly dug potatoes are placed in too large piles.

Rotting is often due to putting wet potatoes in storage.

Every precaution should be taken to protect the tubers from frost both before and after digging.

Diseased tubers should be sorted out from the sound potatoes, and after being boiled or steamed, they may be fed to poultry or live stock.

Potatoes may be kept from sprouting by proper ventilation and by holding the temperature of the storage room at as near 35 degrees as possible.

There is usually a slack period in the work program during the late fall. The wheat has been sown and the silage cut. A part of this time might well be spent in tile drainage. The tile should be put into the ground before it freezes. They will then do their greatest service by removing the excess water and allowing the soil to warm up for early spring planting. Tile drainage can often be carried on as late as the last part of December. Be sure and do the work right.

Farm crops have advanced in price from 40 to 80 per cent in the past few months. Although the increase in farm machinery has been much less, now is the time to repair that old machine, for new ones may cost a great deal more money next spring.



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## Fattening Geese and Turkeys

**C**ONSIDERABLE loss results from marketing geese and turkeys with-out special fattening. N. L. Har-ris, superintendent of the Agricul-tural College poultry farm, is authority for the statement that the goose espe-cially is easily fattened. The old-time method was to tie several geese to a stake in some quiet shady place and give all the finely ground grains they would eat readily. In from one week to ten days the birds would put on large amounts of fat at a small outlay for grain. In recent years it has been the custom to place a few geese in a small yard with ample shade. A wet mash composed of 60 per cent finely ground corn meal, 30 per cent shorts, and 10 per cent beef scrap, is given. When possible the mash should be mixed with sour milk or buttermilk. By this method rapid gains are realized.

The turkey, being a somewhat wild fowl, does not take kindly to small pens and is usually fed on the range. Birds that are to be marketed for the holiday trade are given all the cracked corn they will eat twice a day. When freezing weather comes early and destroys insect life it is advisable to furnish some form of meat feed, such as commercial beef scrap, where birds can have easy access to it.

In case a local market is to be sup-plied it is possible to feed turkeys in crates. The birds are put in small crates in a quiet, protected building, and fed three times a day on batter made of corn meal, low grade flour, beef scrap, and a small amount of bran mixed with buttermilk. This method is more expen-sive and only practical where special markets are to be supplied. The old range method of fattening is more de-sirable as well as economical. Care should be taken to remove all breeding stock from the birds selected for mar-ket, as it is not desirable that those to be kept over should become too fat.

### Choice Cockerels Valuable

Poultry breeders are carrying low stocks of male birds this fall, and indi-cations point to a general shortage of breeding stock in the spring. This con-dition, due largely to high prices of feed, is important to practical poultrymen.

People who expect to follow the usual custom of buying roosters in January and February to make up their breeding pens are likely to be disappointed next year.

To be sure of an early start in poultry operations during the coming season, it will be well to retain at least a few choice well-matured cockerels. Carrying them through the winter, even at a con-siderable cost for feed, is a wiser course than depending on the uncertain com-mercial supply.

### Fattening Chickens for Market

Crate fattening chickens for market is conducted in a large way by the big poultry houses. The average farm chicken as it comes to the poultry house is seldom in the best condition. They must go through a fattening process just as a steer must be finished for market.

A few farm poultry growers finish their stock for market, although as a rule it is not practical to do this. The method will not be successful if care lessly conducted, and those who attempt to fatten chickens on the farm as they are fattened by large commercial plants should send to the poultry department of the experiment station or to the United States Department of Agricul-ture for detailed instruction. Better yet, visit one of the commercial poultry fat-tening plants and make a careful study

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of their methods. By making some modifications, the methods followed in a large way can be successfully adapted to farm conditions and one who will pay strict attention to the details can suc-cessfully fatten the stock so they can be sold to a special trade for better than ordinary market prices.

Material to be used for fattening chickens in crates should depend some-what on the cost and on the purpose for which the fowls are being fed. If a hard white fat and white skin are de-sired, oats and barley should make up a large part of the ration. If yellow fat and skin are desired, corn meal should be the principal ingredient of the mash.

A simple, efficient ration for farm use consists of sixty pounds corn meal, forty pounds wheat middlings, oat flour, or barley meal (or forty pounds of a mix-ture of equal parts by weight of these materials) and five pounds of finely ground beef scrap. This mash is mixed with sour milk, either skim milk or buttermilk, in the proportion of about one and one-half pounds of milk to each pound of mash. The mash mixed ready for feeding should have the consistency of buckwheat cake batter. It is not nec-essary to mix the mash fresh for every feeding, as a slight fermentation makes it more palatable and more digestible.

The chickens to be fattened should be given nothing to eat or drink for at least twelve hours after they are placed in the crates.

At the first feed, only about one-third as much of the mash should be given as the chickens will eat. The amount fed should be increased at each feed until by the fourth feed they are being given all they will clean up in from twenty to thirty minutes. After the fourth feed, every effort should be made to stimulate the consumption of mash.

Feeding should be done at the same hours each day. Regularity is essential.

### Free Poultry Bulletins

Standard Varieties of Chickens. Farm-ers' Bulletin 51.

Poultry Management. Farmers' Bul-letin 287.

Capons and Caponizing. Farmers' Bul-letin 452.

Hints to Poultry Raisers. Farmers' Bulletin 528.

Important Poultry Diseases. Farmers' Bulletin 530.

Boys' and Girls' Poultry Clubs. Farm-ers' Bulletin 562.

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Natural and Artificial Incubation of Hen's Eggs. Farmers' Bulletin 585.

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Simple Trap Nest for Poultry. Farm-ers' Bulletin 682.

Squab Raising. Farmers' Bulletin 684.

Duck Raising. Farmers' Bulletin 697.

Goose Raising. Farmers' Bulletin 767.

Turkey Raising. Farmers' Bulletin 791.

Mites and Lice on Poultry. Farmers' Bulletin 801.

For copies of these bulletins address U. S. Department of Agriculture, Wash-ington, D. C.

### Selecting Good Hens

The following brief suggestions are helpful in selecting the hens to keep for the winter:

The best hens are those still in old plumage in October, still with red combs and still laying. All such hens are extra good hens and should be marked and used as breeding stock next spring.

The next best hens are those that are moulting at this time and laying both.

The next best are those that are moulting rapidly—all at once.

The next best are those that are through the moult and showing full, red combs, although in heavy breeds such must be especially fed—handled if they are to lay early this winter.

Poor hens are such that are moulting badly or slowly or that appear dumpy or sick because of the moult. Broken down, runty and scoured hens are all in the class that are sure not to return enough eggs this coming year to pay for the feed they will eat.

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**120 HEAD OF HIGH GRADE HOLSTEIN** cows and heifers, priced for quick sale. H. F. McNutt, Oxford, Wisconsin.

**ONE REGISTERED SHORTHORN BULL.** Four high grade bulls. Cruickshank breeding. Also registered Spotted Poland-China hogs. Priced to sell. C. R. Wykers, Route 2, Belvue, Kansas.

**HIGHLY BRED HOLSTEIN CALVES;** either sex, 15-16th pure, from heavy milkers, five to seven weeks old, beautifully marked. \$23, crated and delivered to any station, express charges paid here. Send orders or write. Lake View Holstein Place, Whitewater, Wisconsin.

**FOR SALE—ONE-YEAR-OLD REGISTERED** Guernsey bull, sires five nearest dams average 684 pounds fat one year. Dam's grandsire Imp. King of the May. Very large, black nose, a great bull for a grade herd. Also a few high grades 15-16ths and better. Bull calves, same sire as above. John Perrenoud, Humboldt, Kan.

### DOGS.

**FOR SALE—ESKIMO SPITZ PUPPIES.** Plainview Farm, Humboldt, Kansas.

**COLLIE PUPS—U. A. GORE, SEWARD,** Kansas.

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

**AIREDALES AND COLLIES—GREATEST** of all pups. Grown dogs and brood matrons. Large instructive list, 5c. W. R. Watson, Box 128, Oakland, Iowa.

### WANTED

**WANTED—TO BUY HAY, SORGHUM,** Johnson grass, oat straw, alfalfa prairie hay, maize heads, ear corn, oats, cane and Sudan seed. State number of cars you have and price wanted f.o.b. your station. B. E. Miller, Carlton, Texas.

### SHEEP

**FOR SALE—600 GOOD WESTERN EWES** now being bred with pure-bred Shropshire bucks. Will sell all or part. Ship over Santa Fe or M. P. P. Price \$10. Homer Harsh, Argonia, Kansas.

### TREES, SEEDS AND PLANTS.

**FOR SALE—SEVENTY-FIVE BLACK** walnut trees, sound and clear. J. V. Rees, Jennings, Kansas.

**FOR SALE—ONE CAR PURE TURKEY** seed wheat, \$2.25 per bushel. Alfalfa seed, \$8 per bushel, f.o.b. Grantville, Kansas. S. E. Wilson.

### HOGS.

**CHESTER WHITES—MAY PIGS AT** farmers' prices. Gust Clausen, Bunker Hill, Kansas.

### HORSES AND MULES.

**SHETLAND PONIES** TS CLEM-mons, Coffeyville, K.

### MISCELLANEOUS.

**THIRTY DIFFERENT MAGAZINES,** late issues, value \$3, yours for 25c prepaid. Eastern Bureau, New Egypt, N. J.

**BLACKSMITH MACHINE SHOPS, LOT,** house for sale or trade for land. Big business, well equipped. E. J. Dorman, Wakeney, Kansas.

**BEAUTY BOOK FREE—TELLS HOW TO** care for hair, skin, teeth, feet. Useful information for everybody. Harmon Stokes, Mohawk, Florida.

### TANNING.

**LET US TAN YOUR HIDE: COW, HORSE** or calf skins for coat or robe. Catalog on request. The Crosby Frisian Fur Co., Rochester, N. Y.

### THE STRAY LIST.

**TAKEN UP—BY J. C. HALLISTER, OF** Cunningham, Rural Township, Kingman County, Kansas, on September 25, 1917, one horse pony about three years old, color bright bay, weight about 600 pounds; no marks or brands. Appraised at \$15. W. E. Hart, County Clerk.

### SULPHUR FERTILIZER

**SULPHUR PHOSPHATE ROCK GROUND** proves wonderful new, cheap, rich fertilizer. Experiments prove an increase acreage yield almost one-third. Is cheap and easily applied. Company has large mine. Send for literature and experimental fertilizer reports. Scott Co., Houston, Texas.

### Real Estate For Sale

**10,000 ACRES** of good grazing land, well watered, for \$3 to \$5. All crops good. No drought, no hot winds. Grass for cattle and corn for hogs. Best country in the world to live and make money.

**W. W. TRACEY - ANDERSON, MISSOURI**

### Best Bargain in S. E. Kansas

**360 Acres, 160 acres fine wheat, corn and** alfalfa land. Rich creek bottom soil. Balance pasture. \$5,000 worth improvements. Splendid oil prospects. A snap. For quick sale, \$45 per a. M. T. Spong, Fredonia, Kan.

### 160 ACRES

**Two miles No. 1 town, all tillable land;** 30 acres wheat; 50 acres native bluestem meadow; 20 acres bluegrass pasture; remainder in cultivation; family orchard; 7-room house; barn; cribs; well; cistern. Bargain, \$80 per acre.

**MANSFIELD LAND COMPANY**  
Ottawa - Kansas

**SUMNER COUNTY** produces the big crops, corn, wheat and alfalfa. Improved farms only \$40 to \$75 per a. Owner's price my price. Write for list. Wm. Hembrow, Caldwell, Kas.

**110-ACRE FARM** in high school district, 3 1/2 miles of Topeka. 95% tillable, 30 acres in wheat, 10 acres alfalfa, good improvements. Fine location. Priced to sell at \$12,500. For particulars write

**F. M. BUCHHEIM**  
521 West Street Topeka, Kansas

**TWENTY ACRES, 1/2 mile city limits** McAlester. 12 acres good bottom land, balance rough, fenced, 4 acres cultivated. \$45 per acre. Terms.

**SOUTHERN REALTY CO., McAlester, Okla.**

### WANT THIS KNIFE FREE?



Length, 3 1/4 inches. Your own name on the handle. James Kremer wrote that he would not take \$2 for his knife. John Streeter said it is easily worth \$1.50. It is a real knife, with best steel.

Send me your name on a post card and I will tell you how to get it for less than an hour of your time. Address

**HARRY LEONARD, MANAGER**  
Kansas Farmer Bldg. Topeka, Kansas

**When writing to KANSAS FARMER** live stock advertisers, please mention this paper.



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 suggestions 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.

### Thanksgiving.

There are so many things I am not thankful for:  
The cruel war I loathe, the carnage I abhor.  
New graves and open wounds and death-infested sea  
And ruins gaunt and gray where temples used to be.  
But I am thankful, God, 'mid all the murk today  
That I can keep my faith and hope and wait and pray.  
—L. M. Thornton in Farm and Home.

### Let Us Be Thankful

That, even though our country is at war, we are fighting for no territorial indemnity for ourselves;

That even though the food is dear, we have as a people felt as yet no touch of actual want;

That there is no danger of an invader's foot upon our shores at this time;

That, even though there is industrial and political strife within our own borders, there is no division that justice and reason cannot bridge;

That, while all the world fights, all men talk of peace;

That there is a probability that Thanksgiving, 1918, may be the greatest Peace Jubilee of all time.—Farm Life.

### "Brer" Rabbit

In England the rabbit has always held a place of honor on the festal board. A Christmas stagecoach without its full hamper and dangling rabbits for town tables would not have been a stagecoach at all. Thanksgiving, 1917, would be a good time to give the American rabbit equal honor. The rabbit has such possibilities that you can hardly go wrong when you have once caught your rabbit. What can you do with a rabbit? Exactly what you can do with a chicken—roast, fry, cream, and a dozen ways besides. Try one of these for your Thanksgiving dinner:

**ROAST RABBIT.**—Wash the rabbit with soda water. Lay in salted water for an hour. Stuff with a dressing made of stale bread and seasoned with salt, pepper, and onions, celery, or chestnuts, and sew up. Line a baking pan with one onion and one carrot cut up, a few cloves, whole peppercorns, and one bay leaf. Rub rabbit with salt and pepper and lay upon this dressing, putting butter or other fat here and there over the rabbit. Sift a little flour over the top and pour a cup of stock or hot water into the pan. Cover tight and roast, basting frequently. When ready to serve, put on a hot platter and garnish with slices of lemon and cranberry jelly or currant jelly.

**CREAMED RABBIT.**—Season with salt and pepper, roll in flour, and fry. When brown, turn, then cut an onion on top and add a little water. When done, cover with sweet milk, and thicken a little.

### Home-Made Hominy

One of our readers just called us by telephone to ask how to make hominy, and others are probably interested in making it at the present time.

Select sound white corn. The hulls may be removed by using either lye or soda. If lye is used, the proportion is a tablespoonful of concentrated lye to a gallon of corn. Cover the corn with water. Boil slowly until the skin comes off easily and the dark tips on the grains begin to come out. Wash thoroughly. Soak in cold water—preferably over night—drain, return to kettle and boil in plenty of water until tender.

If the hulls are removed with soda, use one tablespoonful of baking soda for each cup of corn. Boil until hulls are softened and may be removed easily. Drain off the soda water and wash in cold water. Rub between the hands to remove any hulls. Wash repeatedly until all hulls are gone. Add boiling water to the corn and boil till thoroughly cooked.

The hominy may be kept in a stone jar in a cool place for several days, or it may be canned and kept as long as desired. To can, pack closely in hot jars or cans. Fill with boiling water. Add one level teaspoonful of salt to each

quart of hominy. Put rubbers and caps of jars into position, not tight, sterilize in hot water bath ninety minutes if the corn has been cooked tender beforehand. If it is packed into the jars without cooking, sterilize pints two and one-half hours and quarts three hours in hot water bath. Remove from bath and tighten lids.

The following ways of preparing hominy for the table are recommended by the home economics department of the Ohio University:

**Creamed Hominy.**—Reheat cold cooked hominy in hot white sauce. Parsley or a small amount of grated cheese may be added.

**Hominy Balls.**—Mix cooked hominy with white sauce, cheese sauce, or tomato sauce, and shape into balls. The white sauce is made by thickening one cupful of milk with three tablespoonfuls of flour and adding three tablespoonfuls of bacon fat, drippings, or butter. To make cheese sauce, add to each cup of white sauce about four tablespoonfuls of cheese, grated or chopped fine. To make tomato sauce, use tomato juice instead of milk. Roll the hominy balls in beaten egg and then in bread crumbs. Fry in deep fat. Cold creamed hominy may be mixed with egg, made into balls and fried in deep fat.

**Hominy and Bacon.**—Cut up several slices of bacon into small pieces. Fry until crisp and stir the hominy into this. Heat through thoroughly.

Another delicious way of serving hominy is to use one-half cooked hominy and one-half well-cooked corn meal mush. Add chopped English walnuts, mold, slice, and fry. The nuts should not be cooked, but should be added to the mixture just before molding. The nuts make this rich enough to serve as a meat substitute.

All measurements given in the foregoing recipes—like all measurements given in KANSAS FARMER, unless otherwise stated—are level.

### Golden Pumpkins

Before turning the pumpkin into the good dishes you know so well, take a long look at this glorious bit of color, double-died with sunshine. Its very beauty evokes thanksgiving. If you are going to make a pie, cut off the top, scoop out the meat, then fill the shell with sprays of red-brown autumn leaves and place this golden bowl in the center of the Thanksgiving board.

### 1917 Pumpkin Pie

- 1 cupful molasses
- 1 quart cooked pumpkin
- Grated peel of one lemon
- 1/2 teaspoonful each of nutmeg, cloves, and cinnamon
- 4 eggs.

Heat the molasses and stir into the pumpkin. Add the seasoning and beaten yolks of the eggs. Mix well. Add the stiffly beaten whites of the eggs. Bake in a pudding dish. Serve cold. Mashed sweet potato may be used in place of the pumpkin if thinned with one and a half cups of milk.

### Wonderful Egg Producer

Any poultry raiser can easily double his profits by doubling the egg production of his hens. A scientific tonic has been discovered that revitalizes the flock and makes hens work all the time. The tonic is called "More Eggs." Give your hens a few cents worth of "More Eggs" and you will be amazed and delighted with results. A dollar's worth of "More Eggs" will double this year's production of eggs, so if you wish to try this great profit maker, write E. J. Reefer, poultry expert, 4638 Reefer Bldg., Kansas City, Mo., who will send you a season's supply of "More Eggs" Tonic for \$1 (prepaid). So confident is Mr. Reefer of the results that a million dollar bank guarantees if you are not absolutely satisfied your dollar will be returned on request and the "More Eggs" costs you nothing. Send a dollar today or ask Mr. Reefer for his free poultry book that tells the experience of a man who has made a fortune out of poultry.—(Adv.)





## Percheron Stallions and Mares

J. C. PARKS - HAMILTON, KANSAS

## MODERN HEREFORDS

HAZFORD PLACE

Home of the Grand Champion BOCALDO 6TH, assisted by CALDO 2D, PUBLICAN 4TH AND BEAU BALTIMORE.

All our show cattle our own breeding. Inspection of farm and breeding herd invited. A few choice young bulls reserved to head high-class pure-bred herds now ready for inspection and sale.

William Condell, Herdsman.

ROBT. H. HAZLETT, EL DORADO, KANSAS

## Breeders' Directory

ANGUS CATTLE.  
D. J. White, Clements, Kan.  
DORSET HORN SHEEP  
H. C. LaTourette, Route 2, Oberlin, Mo.  
RED POLLED CATTLE.  
Mahlon Greenmiller, Pomona, Kansas.

## HORSES AND MULES.

PERCHERONS—BELGIANS—SHIRES  
2, 3, 4 and 5-yr. stallions, ton and heavier; also yearlings. I can spare 75 young registered mares in foal. One of the largest breeding herds in the world.  
FRED CHANDLER, R. 7, Charleston, Ia. Above Kansas City.

Choice Young Belgians, English Shires, Percherons, also Coach stallions, also mares. Many first prizes. Long time 6% notes. Illinois Horse Co., Good Bld., Des Moines, Ia.

## DUROC JERSEYS.

## TAYLOR'S DUROCS

For Sale—One Missouri State Fair prize winning boar. Seven yearling boars sired by champion boars that are real herd headers. Fifty spring boars that are fine prospects. Write for prices or come and see my herd.  
Chas. L. Taylor - Olean, Mo.

THIRTY DUROC JERSEY BOARS  
Cholera immunized. Sired by Taylor's Model Chief 126455, winner at Missouri State Fair and American Royal. Extra good breeding boars at prices to close them out. Also choice bred gilts. Dams well bred for years.  
W. R. HUSTON - AMERICUS, KANSAS

CRYSTAL SPRING DUROCS  
Twelve head of Duroc Jersey spring boars, no better breeding anywhere, seven of them sired by Kern's Sensation, grand champion of Iowa and Nebraska this year. Priced reasonable.  
ARTHUR A. PATTERSON, Ellsworth, Kan.

DUROC BOARS  
Thirty-five spring boars by G. M.'s Crimson Wonder, Crimson Wonder Again Jr., Critic D. and Great Wonder, out of my best herd sows. Priced to sell. Come and see my herd.  
G. M. Shepherd, Lyons, Kansas

MARSH CREEK DUROC HERD  
Fall pigs by Highland Cherry King 204165 out of tried sows, big type. Ready to ship December 1.  
R. P. WELLS - FORMOSA, KANSAS

MAPLEWOOD DUROCS  
Seventeen yearling and early spring boars, ready for service, as good as we ever grow. Twenty-five gilts, open. Three bred gilts due to farrow this month and early in November. Prices reasonable. Write us your order at once and get first choice.  
MOTT & SEABORN, HERINGTON, KAN.

DUROC JERSEY PIGS  
August and September farrow.  
CHESTER MCWILSON - RICE, KANSAS

ROYAL GRAND WONDER  
First prize junior year boar at Kansas State Fair, heads my herd. Some splendid March boars of noted blood lines. Ready for service. Bred sow sale February 14.  
B. R. ANDERSON  
Route 7 McPherson, Kansas

Immune Duroc Boars on Approval  
Pedigreed Duroc-boars with size, length and bone. Immune and guaranteed breeders. Shipped to you before you pay for them.  
F. C. CROCKER, BOX K, FILLEY, NEB.

HAMPSHIRE HOGS  
HALCYON HERD HAMPSHIRE HOGS  
Best breeding, best type. Stock for sale.  
GEO. W. ELA, Valley Falls, Kansas

OLSON HAMPSHIRE.  
For Sale—One spring yearling and one fall yearling boar, 8 spring boars, 40 head spring gilts, either bred or open. All immunized and registered to purchaser. Write or come and see our herd. Farm 12 mi. S. of Salina.  
OLSON BROS - ASSARIA, KANSAS

SAPPHIRE (BLUE) HOGS  
The quickest pork producer known. Breeding stock for sale.  
L. E. JOHNSON, Waldron, Harper County, Kansas.

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L. E. JOHNSON, Waldron, Harper County, Kansas.

FOR SALE—Young stallions and mares, one herd stud. All registered in Percheron Society of America. Blacks and bays. A few Shorthorn bulls, reds and roans. Come and see me.

J. C. PARKS - HAMILTON, KANSAS

## MODERN HEREFORDS

HAZFORD PLACE

Home of the Grand Champion BOCALDO 6TH, assisted by CALDO 2D, PUBLICAN 4TH AND BEAU BALTIMORE.

All our show cattle our own breeding. Inspection of farm and breeding herd invited. A few choice young bulls reserved to head high-class pure-bred herds now ready for inspection and sale.

William Condell, Herdsman.

ROBT. H. HAZLETT, EL DORADO, KANSAS

## SHORTHORN CATTLE.

### ABBOTSFORD SHORTHORNS

Two choice bulls and ten extra good heifers for sale. Priced to sell. The kind that always please.  
D. BALLANTYNE & SON, Herington, Kan.

### SHADY LAWN SHORTHORNS

At head of herd, Kansas Archer 440809 by Mistletoe Archer. For sale, fifteen choice young bulls from spring calves to yearlings. Come and see our herd.  
F. H. HULL & SONS - EUREKA, KANSAS

### SHORTHORN CATTLE

A few Scotch bulls for sale of breeding age. Red and roans. Write or come and see my herd.  
O. A. HOMAN & SON, PEABODY, KANSAS

### ALYSDALE HERD OF SCOTCH SHORTHORNS

Prince Valentine 4th and Clipper Brawth in service. Orange Blossoms, Butterflies, Queen of Beautys and Violets. Choice young stock for sale.  
H. H. HOLMES, Route 28, Topeka, Kansas

### Pearl Herd Shorthorns

Valliant 346162 and Marengo's Pearl 391-962 in service. Young bulls up to 10 months old for sale. Reds and roans, in good thrifty condition and the making of good useful animals. Inspection invited.  
Can ship on Rock Island, Union Pacific or Santa Fe Railway.  
C. W. TAYLOR - ABILENE, KANSAS

### CLOVERDALE SHORTHORNS

For Sale—Three red bulls, 12 months old. A few cows and heifers. Priced reasonable. Come and see my herd.  
HARRY T. FORBES  
Route 8 Topeka, Kansas

### Cedar Heights Shorthorns

For Sale—Three red bulls, 12 months old. A few cows and heifers. Priced reasonable. Come and see my herd.  
HARRY T. FORBES  
Route 8 Topeka, Kansas

### FARM AND HERD NEWS NOTES

G. C. Wheeler, Live Stock Editor  
W. J. Cody, Manager Stock Advertising  
O. W. Devine, Field Representative

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Personal mail may have to be held for several days, or be delayed in forwarding, and Kansas Farmer cannot assume any responsibility for mistakes occurring thereby

W. R. Houston, of Americus, Kansas, owner of one of the best herds of pure-bred Duroc hogs in the state, reports his herd doing well and a good demand for high-class Durocs. A feature of his herd at this time is the fine lot of young stock, including a lot of good boars by the great sire, Taylor's Model Chief, a prize winner at the Missouri State Fair and the American Royal. Sisters of this great boar are among the great prize winning sows of the Duroc breed. Mr. Houston keeps his herd immune.

J. W. Anderson, of Leonardville, Kansas, reports his herd doing well. Mr. Anderson now has 100 head in his herd and will breed a large number of sows for spring farrow. He reports a good demand for high-class Poland China sows and has just sold eight head of choice sows to one breeder.

A. V. Young, of Palmyra, Missouri, has announced a dispersion sale of Jersey cattle to be held at Palmyra, Missouri, December 12. Mr. Young owns one of Missouri's high-class Jersey herds and will catalog fifty head of imported and American-bred Jerseys. The sale will be under the management of B. C. Settles, the well known Jersey cattle sales manager of Palmyra, Mo.

C. F. Blake, of Idylwild Stock Farm, Glasco, Kansas, owner of one of the choice herds of Jersey cattle in this state, reports his herd making a good record. This herd is bred for production and carries the blood lines of the producing families of the breed. A feature of the herd at this time is the choice lot of young stock, all record bred.

S. M. Knox, of Knox Knoll Stock Farm, Humboldt, Kansas, is building up one of the best herds of Mulefoot hogs in the West. His herd now numbers 135 head and he will breed thirty sows for spring farrow. He has three prize winning herd boars in service, one of them a recent purchase. This boar was junior champion at the Iowa, Nebraska and Dakota state fairs. Mr. Knox also owns a choice herd of Shorthorn cattle.

The Kansas Percheron breeders have announced January 25 as the date of their

annual Percheron sale. This sale will be under the management of C. W. McCampbell and will be held at the Kansas Agricultural College at Manhattan. The offering will be carefully selected and a very choice lot of Percherons will be catalogued.

W. C. Kenyon & Sons, of Elgin, Illinois, owners of one of the good Holstein herds in that state, report their herd doing well and also report a good demand for high class Holsteins, both registered and high grade. Their herd is bred in the best producing lines of the breed.

Charles H. Redfield, of Bucklin, Kansas, is building up a choice herd of pure-bred Spotted Poland China hogs and has found them very profitable. This year he raised a choice lot of spring pigs that are growing out fine.

Orrie Coburn, of Edgewood Farm, White-water, Wisconsin, reports a good demand for high class Holsteins. He recently shipped 109 high grade Holstein heifer calves four to six weeks old, to the Peoples Bank of Butler, Missouri, for a calf club there organized by the bank. The calves were shipped by express and arrived in twenty-four hours time, and 109 boys and girls were there with their friends to get them. It was a gala day for the youngsters. The H. P. Faris Trust Company, Clinton, Missouri, also bought and put out to club members over 150 of these calves through Mr. Coburn the past fall.

Thomas D. Marshall, of Brookside Stock Farm, Sylva, Kansas, is the owner of choice herds of Percheron horses and Jersey cattle. His Jersey herd is one of the heavy producing herds of Kansas. He has Eminent Flying Fox, Queen's Raleigh and other choice breeding. A feature of his herd at this time is the choice lot of young stock.

A. V. Young, of Palmyra, Missouri, owner of one of Missouri's good Jersey herds, has announced a sale of Jersey cattle to be held at Palmyra, December 12. A choice offering will be catalogued and the sale will be under the management of B. C. Settles, of Palmyra.

Joseph Baxter, of Clay Center, Kansas, reports his herd of Polled Durham cattle doing well. On December 12 he will sell a select draft from this great herd at public auction. The sale will be held at the Kansas Agricultural College, Manhattan. The cows and heifers that will go in the sale are a very fine lot of breeding animals. The great prize winning bull, Select Goods, will go in this sale. He is one of the greatest sires of the breed and has a show record of ten first prizes and three grand championships and is the sire of many prize winners.

L. J. Lindsey, of Reece, Kansas, has announced December 11 for a public sale of Angus cattle at his farm. The offering comprises twenty-nine head of registered Angus cattle, consisting of ten bulls and nineteen females. The bulls consist of nine head of bull calves from seven to twelve months of age and one three-year-old herd bull. The females include sixteen head of good breeding cows bred and showing heavy in calf to the herd bull, Lord Elric, a choice bred double Trojan Erica from the herd of E. L. Barker, Eureka, Kansas. The females include a choice lot of heifer calves and their dams were sired by Black Last King Donald, a tried sire of very uniform type of Angus cattle.

M. F. Rickert, of Greenwood Farm, Seward, Kansas, reports his herd of big-type Polands doing well. Mr. Rickert owns one of the good big-type herds in Kansas. The herd boars, Big Wonder 66696 and Orange Wonder, used in his herd, are two of the good sires of the breed, and he has a very choice lot of sows by Big Wonder, Kansas King, Moore's Harbor and other noted big-type sires.

W. H. Charters, of Butler, Missouri, is announcing February 7 for a bred sow sale. Mr. Charters will catalog 100 head for this sale, consisting of fifty head of large fall yearling gilts, fifteen tried brood sows and twenty-three head of large spring gilts. All will be bred to four great breeding boars, Charter's Giant, Gerstdale Major by Gerstdale Jones, Charter by Wonder Chief, and Charter's Grand Master by Big Maston. Mr. Charters is breeding the kind that grow big and make good for the farmer as a pork hog. They are grown on alfalfa pasture and fed a balanced feed that will insure their usefulness as breeders.

Wesley Jewell, of Cloverdale Farm, is one of the progressive breeders in Kansas. His herds of Scotch Shorthorn cattle and big-type Poland China hogs are among the best in the state. He also has a choice flock of pure-bred Shropshire sheep headed by an imported ram. His Shorthorn herd is headed by Sir Hampton 390589, one of the good bulls now in service. A feature of his Shorthorn herd at this time is the choice lot of young stock.

J. M. Hill, of Sedgwick, Kansas, has made a success breeding Galloway cattle. For more than twenty years he has maintained a herd of these cattle on the same farm and has used some of the best herd bulls of the breed that he could purchase. A number of imported bulls have been used, among them imported Evra of Walton by Optimist, a bull that was champion at the leading shows in Scotland and a sire of many herd headers that went to head herds both in Scotland and America. Mr. Hill now has on his farm twenty head of yearling and two-year-old heifers, sired by imported Evra of Walton, that are a choice lot. They will be kept for herd cows. A feature of the herd at this time is the fine lot of young stock, including yearling bulls.

Dr. J. T. Axtell, of Newton, Kansas, owns one of the high class herds of registered Holstein cattle in Kansas. Probably more cows with records are kept and more high-priced sires have been used in this herd than any herd in this section. There are cows in the herd with seven-day records as follows: Wilhelmina, 30.15 pounds; Vada De Kol Soldene, 23.47; Green Plain Wera Bell, 21.45; Bellemore Hengerveld Topsy as a two-year-old with seven-day record of 19.05; Pussy Willow of Russell Farm, 26.79. A feature of the herd at this time is a choice lot of young bulls out of record cows.

## GUERNSEY CATTLE.

GUERNSEY CATTLE.  
Buy a grandson of Imp. May Royal, whose dams are granddaughters of Imp. Masher Sequel. One to seven months old. ADAMS FARM, Cashland, Mo., 12 miles from K. C.

## AYRSHIRE CATTLE.

**SOUTH FARM AYRSHIRES**  
300 HEAD.  
75 Animals Imported from Scotland.  
143 cows have qualified for advanced registry.  
Males and females for sale.  
**SOUTH FARM**  
WILLOUGHBY - OHIO

## JERSEY CATTLE.

# DISPERSAL Sale of

Fifty Head  
**IMPORTED AND AMERICAN BRED JERSEYS**

Owned by A. V. Young

**Palmyra, Mo. December 12, 1917**

Don't fail to attend this sale, and write at once for sale catalog to

**B. C. SETTLES, SALES MANAGER PALMYRA, MO.**

## 120 Jersey Cows and Heifers

Pure-bred and high grade. Forty bred yearlings, superior individuals, all from profitable dams, now for sale.  
J. W. BERRY & SON, Jewell City, Kansas

**BROOKSIDE JERSEYS**  
Registered Jersey Bulls, few old enough for service from Eminent Flying Fox dams, sired by Idalia's Raleigh, a son of the great Queen's Raleigh. Write for prices.  
THOS. D. MARSHALL, SYLVIA, KANSAS

## MULEFOOT HOGS.

**KNOX KNOLL MULEFOOTS**  
Gilts and young sows, bred to champion boars at several state fairs. Ten extra fine gilts. Boars not related. Also Shorthorn cattle. Catalog on request.  
S. M. KNOX - HUMBOLDT, KANSAS

## HEREFORD CATTLE.

**Greenwood Hereford Farm**  
Prince Rupert Herefords  
One carload yearling bulls; fifty head bull calves. Will price single lot or carload.

**W. J. Brown, Fall River, Kan.**

## IDEAL HEREFORDS

For Sale—Ten to twenty cows bred, some now calving, also some yearling heifers and choice young bulls from six to twenty months old. Blood of Prince Rupert 52d, Generous and Don Perfect. Outstanding good cattle. Priced right.

**J. H. Keith, Coffeyville, Kansas**

## AUCTIONEERS.

**Jas. T. McCulloch** Live Stock Auctioneer. I make sales anywhere.  
Write for date. CLAY CENTER, KANSAS

**Live Stock and Real Estate Auctioneer.**  
Fifteen years experience. Write for terms.  
Thos. Darcey, Hutchinson, Kansas.

## CHESTER WHITE HOGS

## Clinton County Chesters

Booking orders for spring pigs of National Swine Show blood lines. Fall and spring pigs at bargain prices.  
J. H. McANAW - CAMERON, MISSOURI

## CHESTER WHITE SPRING BOARS

Husky, growthy fellows of the best breeding. Cholera immune. Priced right.  
HENRY MURR - TONGANOXIE, KAN.

## GOING TO COLLEGE?

Our young readers who contemplate attending business college this fall or winter will find it to their advantage to write KANSAS FARMER for information that will be valuable to them.

It will cost you nothing but a postal card or a two-cent stamp to find out what our proposition is. Address

**DESK D, KANSAS FARMER Topeka, Kansas**



# REGISTERED ABERDEEN ANGUS SALE FROM THE FLINT HILL ANGUS HERD

AT  
REECE, KANSAS, TUES., DEC. 11



29 Head 29

10 Bulls 10

19 Females 19



The bulls include a bunch of calves seven months to twelve months old, choice individuals and in good condition. Also a good herd bull, a tried sire.

**Sixteen Cows Sired by Black Last King Donald**  
From the Herd of Mr. McWhorter, Aledo, Illinois

These cows are the useful kind, with size and substance, the sort for beginners to start with better cattle, or to add to herds already established. They are bred and safe in calf to Lord Elric, a Trojan Erica (from the herd of E. L. Barrier, of Eureka, Kansas).

Sale will be held at farm five miles from Beaumont, on Frisco Railway; sixteen miles from Eureka, on Santa Fe Railway; and seven miles from Reece, Kansas, on Missouri Pacific Railway. Write for the catalog.

**L. J. LINDSEY**  
**REECE, Greenwood County, KANSAS**  
L. R. Brady, Auctioneer

## Kansas Herd Chester Whites

FIRST ON BOAR PIGS, BOTH STATE FAIRS. YOUNG BOARS FOR SALE  
ARTHUR MOSSE, ROUTE 10, LEAVENWORTH, KAN.

### POLAND CHINAS.

#### 1000 POUND HERD BOARS

700 to 900-pound sows, big-type Polands. For thirty days we will sell choice bred spring gilts weighing 200 to 250 pounds at \$60 each. Fall pigs, \$20 each, three for \$55. Cholera immune, registered, recorded and guaranteed to please or your money back. First check gets pick. Ask for catalog.

S. E. WAIT - BLUE MOUND, KANSAS

### DEMING RANCH QUALITY

Big-Type Poland China Hogs.  
Fifty March boars for sale. All immuned. Bred sow sale February 13. Send for catalog.

H. O. Sheldon, Herd Manager  
OSWEGO, KANSAS.

### TOWNVIEW HERD BOARS

Ten big stretchy fellows farrowed in June. Every one a good one. Two choice fall yearlings. I ship my boars and gilts any place on approval. They make good. Prices are right. CHAS. E. GREENE, Feabody, Kan.

### OLD ORIGINAL SPOTTED POLANDS

Stock of all ages, sired by seven of the very best boars of the East and West. Priced right. Write your wants to the CEDAR ROW STOCK FARM

A. S. Alexander, Prop. Burlington, Kansas

### White Oak Park Polands

Outstanding herd boar prospects by 1,100-pound Missouri Jumbo 210461 and 1,000-pound Long Big Joe 227387, twelve-inch bone. Dams popular big-type breeding. If you want boars that will mature to 1,000 to 1,100-pound hogs, I have them, big high-quality fellows. Fall boars farrowed August and September, spring boars February and March. Will record in buyer's name. All immune.

Henry Koch, Edina, Missouri

### FAIRVIEW POLAND CHINAS.

Heavy-boned March pigs, either sex. Eighty to select from. Prices reasonable. Write us your wants.

P. L. WARE & SON - PAOLA, KANSAS

### GREENWOOD POLANDS

Spring boars for sale. Booking orders for bred gilts. M. F. RICKERT, Seward, Kan.

### SPOTTED POLANDS

Sept. pigs, either sex, \$20. One tried brood sow, \$70. Chas. H. Redfield, Bucklin, Kan.

### POLAND CHINAS

#### The Lone Cedar Polands

Last Lot of Meyers' Orange Pigs. I will have either sex, some extra fine gilts. Cholera immune for life.

A. A. MEYER - McLOUTH, KANSAS

#### POLAND CHINA HOGS 150 HEAD IN HERD

Breeding stock for sale. Immune. Satisfaction guaranteed. Come and see me.

V. O. JOHNSON - AULNE, KANSAS

## FOR SALE

The great Poland China boar, Jumbo Wonder 2d, one of the best. Catalog free.

J. D. ZILLER - HIAWATHA, KANSAS

FALL PIGS, ready to ship. Select Spotted breeding. Express paid on pigs.

T. T. Langford & Sons, Jamesport, Mo.

### Henry's Big Type Polands

March and April pigs, sired by Big Wonder, first in class at Topeka; Mammoth Orange and King Price Wonder. Immune.

JOHN D. HENRY, LECOMPTON, KANSAS

### Faulkners Famous Spotted Polands

Late summer and fall pigs for sale. Buy them from the Fountain Head. Annual brood sow sale February 13. Ask for catalog.

H. L. FAULKNER, Box K, Jamesport, Mo.

### BERKSHIRE HOGS.

#### BERKSHIRE HERD BOARS

For quick sale—Two choice Berkshire herd boars, three winter boars and five spring boars, all choice.

E. D. KING - BURLINGTON, KANSAS

### RED POLLED CATTLE.

#### RED POLLED BULLS

Pure-bred Red Polled Bulls, old and young.

W. J. HARRISON, AXTELL, KANSAS

## HOLSTEIN CATTLE SALE

Totten's Third Holstein Sale at Smith's Barn, Hiawatha

Kan., WEDNESDAY, DEC. 5, 1917, BEGINNING AT 1 P. M.



80 HOLSTEINS 60



Consisting of forty head registered cows, heifers and calves, and a few registered bulls of serviceable age. Most of these heifers and calves are from my \$2,500 son of King of the Pontiacs, and are of good dairy type and in nice condition.

Forty head high-grade cows, heifers and heifer calves, good dairy type and in good order. All stock over six months of age tuberculin tested. Here is a chance to get Holsteins at your own price. This stock is from the best dairy section of Ohio. Hope to meet all my former customers at this sale. Come and bring a friend.

**B. E. TOTTEN, - - FARMDALE, OHIO**  
W. R. GUILD, Clerk. COL. D. L. PERRY, Auctioneer.

### HOLSTEIN CATTLE.

### HOLSTEIN CATTLE.

## REGISTERED HOLSTEINS FOR SALE

Having purchased Mr. Potter's interest in our Holstein herd, I am offering all of them at private sale. In the herd are matrons with seven-day records, as follows:

Wilhelmina De Kol Netherland.....30.15	Pussy Willow of Russell Farm.....26.79
Vadla De Kol Soldene.....23.47	Boness 7th Topsy Clothilde.....22.58
Green Plain Wera Bell.....21.45	Margaret of Wheat Hill.....24.00
Locust Terrace Buttercup.....22.00	Pearl Korndyke Burke.....22.00
Tebbee Changeling Abbeckerk.....21.11	Bellemore Topsy 2d.....22.00
Bellemore Hengerveld Topsy, 2 year.....19.05	Bellemore Mona Korndyke, 2 year.....17.79

**BULLS**—Some of them ready for service, out of these and other dams, and by 30-pound sons of King of the Pontiacs.

**HEIFERS** of all ages, with similar breeding.

Many of these cows are fresh or will be fresh before March 1.

**DR. J. T. AXTELL - - - - - NEWTON, KANSAS**

**CLYDE GIROD, At the Farm F. W. ROBISON, Cashier Towanda State Bank**  
**HOLSTEIN FRIESIAN FARM, TOWANDA, KANSAS**  
**BREEDERS OF PURE-BRED HOLSTEINS**

We offer special attractions in choice young bulls, ready for service, both from tested and untested dams, at prices within reason. Let us furnish you a bull and improve your herd.

#### IT WILL PAY YOU TO SEE OUR OFFERING

of high grade young cows and heifers, all springers, in calf to pure-bred sires, large developed females, good udders, nicely marked and the right dairy type at prices that challenge comparison for Holsteins. A visit to our farm will convince you. Keep us in mind before purchasing. Wire, write or phone us.

**GIROD & ROBISON - - - - - TOWANDA, KANSAS**

**MAURER'S HOLSTEIN FARM** is offering twenty-five pure-bred heifer calves from six weeks to eight months old; also a choice lot of yearlings, bred heifers and young cows, all with top-notch breeding and at prices that cannot be equalled elsewhere; grade cows and heifers. **BUY YOUR NEXT PURE-BRED BULL FROM US.** For description and prices, wire, write, or call.

**T. R. MAURER & COMPANY - - - - - EMPORIA, KANSAS**



**HOLSTEINS AND GUERNSEYS**

High grade cows and heifers, carloads or less. Calves crated and shipped anywhere, price \$20.

F. W. WALMER

Way Side Stock Farm - Whitewater, Wis.

## FRIESIAN PARK FARM HOLSTEINS

I am offering six registered Holstein bulls, all sired by Sir Johanna Bonheur Ormsby. He is sired by a son of Johanna Bonheur and his dam is a daughter of Pieterje Mald Ormsby. Both of his granddams are among the leading cows of the Holstein breed. These bulls will all be from 13 to 15 months old and ready for service by December 1. They are evenly marked and a good husky well grown bunch and priced to sell. \$100 each while they last, if taken by December 1. Address

C. G. KEYS

**RICHLAND CENTER - - WISCONSIN**

## Butter Bred Holsteins

Buy your next bull calf from a herd that won the butter test over all breeds.

J. P. MAST - - SCRANTON, KANSAS

## HOLSTEIN COWS

For Sale—Twenty head of registered cows, yearlings and calves; also twelve young high grade cows and heifers. All bred to a bull whose three nearest dams averaged near 26 pounds butter in seven days. One herd bull and four young bulls by Sunflower Sir Mutual 78654.

CHAS. V. SASS

1013 North Fifth St., Kansas City, Kansas

### HOLSTEIN CALVES

Very high grade heifer calves, five weeks old, nicely marked, \$25 each delivered to your station. We can supply you with registered or high grade Holsteins, any age or number, at reasonable prices. Clover Valley Holstein Farm, Whitewater, Wisconsin.

**HOLSTEIN CALVES**, 15-16ths pure, six weeks old, the cream of Wis., \$25 each. Registered bull calves, \$45, crated for shipment. Edgewood Farms, Whitewater, Wisconsin.

Segrist & Stephenson, Holton, Kan. Breeders exclusively of pure-bred prize-winning record-breaking Holsteins. Correspondence solicited.

### The Cedarlane Holstein Herd

For Sale—Registered cows, bred heifers, serviceable bulls, bull calves. Also my 3-year-old herd bull.

T. M. EWING, INDEPENDENCE, KANSAS

**BRAEBURN HOLSTEINS**—Senior herd bull, Walker Copia Champion, dam and sire's dam held world's records. Service bulls, bull calves. H. B. COWLES, 608 Kan. Av., Topeka, Kan.

## REGISTERED HOLSTEIN-FRIESIAN COWS

We have about fifteen cows that will freshen in the next three weeks and would like to contract the sale of the calves, as we will need all the milk to supply our trade. These cows will weigh from 1,300 to 1,500 pounds and will be bred to an A. R. O. bull who has several 30-pound daughters.

STANDARD DAIRY COMPANY

Walnut Grove Wichita, Kansas

### HOLSTEIN CALVES

We offer for sale choice, beautifully-marked heifer or male calves, 15-16ths pure-bred, and all from extra large heavy-milking dams, as follows, crated f.o.b. cars: One to two weeks old, \$15 each; two to three weeks old, \$17 each; five to six weeks old, \$20 each. First check takes them. Write

W. C. KENYON & SONS, ELGIN, ILLINOIS

### GOLDEN BELT HOLSTEIN HERD

Herd headed by Sir Korndyke Bess Hello No. 165945, the long distance sire. His dam, grand dam and dam's two sisters average better than 1,200 pounds butter in one year. Young bulls of serviceable age for sale.

W. E. BENTLEY, MANHATTAN, KANSAS

### GALLOWAY CATTLE.

## GALLOWAYS

About 70 registered Galloway cows, heifers and calves. A very choice lot with the best blood lines of the breed represented. A low price on the bunch for a quick sale. Investigate.

G. E. CLARK

205 W. 21st St., Topeka, Kansas

## GALLOWAY BULLS

SIXTY yearling and two-year-old bulls, strong and rugged; farmer bulls, have been range-grown. Will price a few cows and heifers.

E. E. FRIZELL, Frizell, Pawnee Co., Kansas

### GOOD GALLOWAY BULLS

Twenty-five Extra Good Yearlings Extra breeding and quality. Priced to sell.

J. M. HILL, SEDGWICK, KANSAS

Route 4, Box 65A

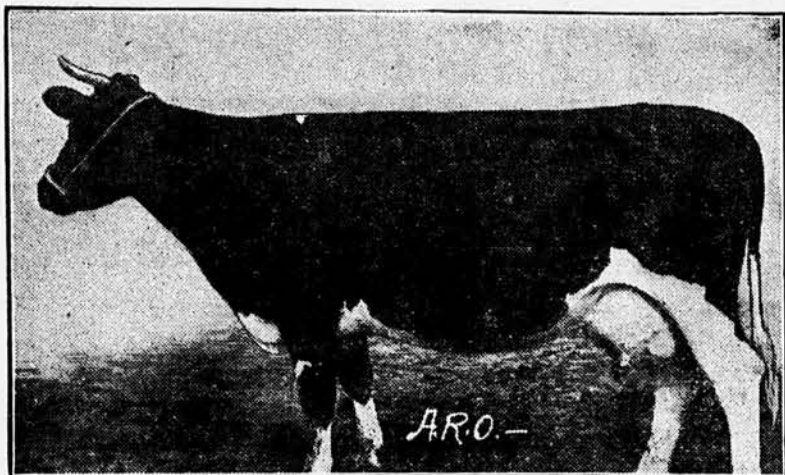
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# GREAT SALE OF Registered Holsteins

TWO DAYS SALE

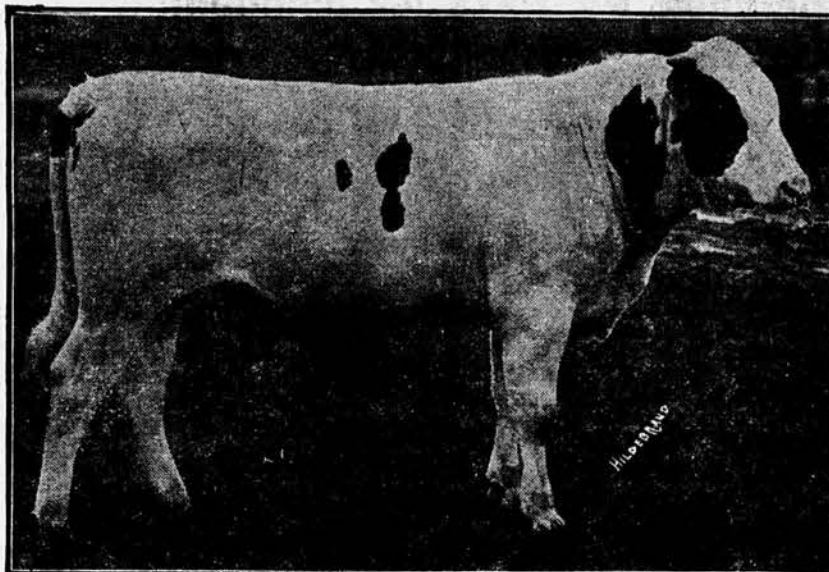
## Albechar Holstein Farm, December 3 and 4, 1917



These cows are blue ribbon animals, prize winners at the big shows this year, of the very highest breeding and individuality. There will be a large number of A. R. O. cows in this sale bred and in calf to some of the best bulls of the Holstein breed. All animals tuberculin tested and guaranteed free from tuberculosis and other contagious diseases. Write for catalog containing full descriptions and four generation pedigree of each animal.

**Robinson & Shultz, Owners,**

Will offer for sale 125 head of pure-bred, registered Holstein cows and heifers and a few young bulls



SIR JULIAN GRACE DE KOL

**Independence, Kansas**

## E. S. ENGLE & SONS'

SIXTH PUBLIC OFFERING OF

### 50 - Tried and Tested Holsteins - 50

Pure-Bred and High-Grade

### Abilene, Kan., Thursday, Dec. 6

Rain or Shine



Consisting of

**Ten young pure-bred cows with A. R. O. records made on our farm.**

Several show cows, all high producers. A credit to any herd in this country. We own daughters from each of them.

**Ten Nicely marked, well-grown yearlings, not bred.**

**Fifteen two and three-year-old heifers milking or soon to come fresh.**

**Fifteen full aged cows**

Several 600-pound cows, several from 400 to 500 pounds butter yearly, none under 300. A dispersion sale of our grade milking herd at the Sand Spring Farm. Write for catalog to above address.

**Auctioneers—McCollough, Hoffman, Engle.**

## POLAND CHINA HOG SALE

### Saxton, Missouri, December 5

Owing to other business I am selling my herd of

### EIGHTY HEAD OF POLAND CHINA BROOD SOWS, SPRING GILTS AND BOARS



This is to be a dispersion sale and I am putting in all my best stuff. The two herd boars, Long Jumbo 2d 74013 and B Wonder 71389, both sell. Twenty-five of my tried herd sows sell, bred for early spring litters, among them Pawnee Belle, Big Lady Jumbo, a litter sister to Long Jumbo 2d; Lady C, a daughter of the 1,000-pound champion Columbus; Jumbo Wonder 4th by Model Big Bob; Jumbo Wonder 3d 152158 by (Fessenmeyer's) A Wonder sells with her fall litter.

### TWENTY HEAD OF SPRING BOARS

A number of them real herd prospects, as good as have gone through any sale ring this fall. And a choice lot of spring gilts. Will sell about 100 head in all. All cholera immunized with double treatment. Send for catalog and arrange to attend sale. These will be real bargains for all who attend.

**O. W. Devine will represent Kansas Farmer**

### U. S. BYRNE, SAXTON, MO.

(Six Miles East of St. Joseph, on Burlington Railway)



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## Ship Your Furs NOW

—ship to "Biggs at K. C.", and depend on a square deal—honest, most liberal grading, and quickest returns. All our old customers will ship to us because they know we will pay top prices always. Increase your shipments this year. New trappers—make good money and get started right. If this is your first season, don't waste it by shipping where you will not be sure of your returns.



## We Must Have More Furs

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"BIGGS AT KANSAS CITY" has immense orders for furs and hides of all kinds. These orders must be filled without fail—regardless of conditions and regardless of the high price we must pay trappers. Get busy right now and help us to get the supply we **must** have. We have paid the highest prices in years past, and this year we are ready and waiting to pay you and every trapper more actual cash—**more real money**, than you could hope for in dealing with any other fur house in the entire country. And as proof of this claim "BIGGS at K. C." points with pride to the fact that there are now over three quarters of a million names on our lists of satisfied shippers. This season we want more furs than ever before, and naturally we are prepared to pay more money than ever before in order to get the enormous quantity we need.

## Furs Have Gone Up and Up

The advance has been steady and sure. We are paying top prices for large Prime Black Skunk of the kind easily caught in Central Sections. We are paying extra top prices for Skunk of extra grade and extra fine quality of fur from sections further north. **Write at once for Raw Fur Price List.** See with your own eyes just what we are paying—see why hundreds of thousands ship to BIGGS—the house of high prices, ready cash and quickest returns. Take advantage of Biggs' Better Service.

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This is our big modern building devoted exclusively to the receiving, grading and quick handling of Furs and Hides.



Over 43,000 square feet of floor space—the largest establishment of the kind in the entire Southwest.

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WE hold fur shipments separate on request, provided you make the request to "hold separate" on a letter or note put inside of or attached to your package of furs when you ship. "Hold separate" instructions sent separately by mail would reach us too late. We mail our check to you an hour after your furs reach us. If price is not satisfactory, return check and we will send back your furs. Thirty-seven years of Square Dealing back of every Biggs transaction.

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Guns, Ammunition, Traps, Animal Baits, etc., at low factory cost. Biggs Baits are guaranteed to increase your catch or we will gladly refund your money.



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