# LANSAS FARMER

FOR THE IMPROVEMENT

OF THE FARM AND HOME

olume 49, Number 9

TOPEKA, KANSAS,

ARCH 4, 1911.

Established 1863. \$1 a year



OST potent of all single influences in the building of this, the gntiest nation in history, is the cow. Her sons drew the plows which first cultivated the land of the new world; hauled to market the products of the field, and with slow energy, moved the chattels and house old goods beyond the mountains to new homes in the farther west.

They supplied the beef which is the food of the Anglo-Saxon, a race that was never conquered since history began. They furnished the shoes of the pioneers who trod the unknown wilds and made of them the farmsteads and cities of our present enlightenment. They gave the clothes and robes to protect the pioneer against the destroying blasts of winter and made commerce possible before the rail-the furniture he used.

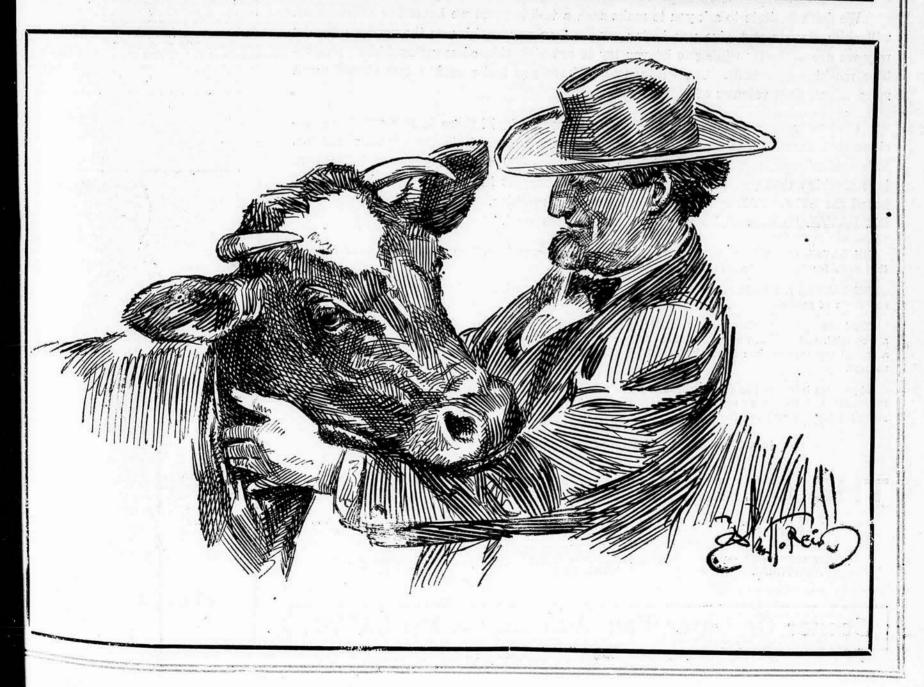
The old cow is the mother of the whole bovine and foster mother of half the human race. From the roadside weed she manufactures the most nourishing of human foods. She is the ready aid of the farmer, the pet of the rich man and the ever present help of the poor. She is the economist of the people and the conservator of their resources. She partakes of the grass of the field and leaves the farm the richer for her presence.

As she helped to develop the farm from the wilderness and as she ate of its first fruits, so she will renew the life of the soil and make a still greater agriculture possible.

In all our history the cow has been man's closest friend and benefactor. Upon her products are built the great business interests which center in the stock yards, the creameries, the shoe factories, the harness shops and the mills. Without her Chicago would be a village and Kansas a prairie waste.

Take away the cow and our banks would close, our graveyards yawn and the wheels of commerce would cease to turn. Foster and care for her and business flourishes, the fertility of the soil is conserved and she becomes the custodian of the Nation's prosperity.

I. D. GRAHAM



## Before you buy a Cream Separator See and try a DE LAVAL

IS THERE ANY DOUBT IN YOUR MIND as to which cream separator will give you the most satisfactory service and be the most economical for you to buy?

### Here is a proposition that should interest you.

Ask our nearest agent to bring a DE LAVAL out to your house and set it up for you. (If you don't know the DE LAVAL agent drop us a line and we will give you his name and address.) Try out any other separator you wish alongside of it. Give them both a fair, honest trial. Then buy the machine that

### Skims the cleanest Turns the easiest Is easiest to wash Is best constructed

If there is any doubt in your mind when you make this test as to the comparative skimming of the two machines, take a sample of skim-milk from each separator and send it to your State Experiment Station. They will tell you which sample contains the most butter-fat.

We sell thousands and thousands of cream separators every year upon just such tests.

We don't hesitate to ask you to make such a test because we know the DE LAVAL will skim cleaner and give you better service than any machine on the market. That's why we are perfectly willing to let you try it out alongside of any "would-be" competitive machine ever built. Our willingness to have you make such a test should mean more to you than volumes of printed claims.

Give your cows a square deal. Be fair to yourself. If there is any one farm machine that should be of the very best possible construction it is the cream separator. It is used oftener than any piece of farm machinery—730 times a year—and the very best machine that you can buy will be fai the cheapest in the end. You have always heard the DE LAVAL spoken of as a high-grade machine. All DE LAVAL users are DE LAVAL "boosters," because it always "makes good."

DE LAVAL cream separators are made in all sizes and capacities, from a 135-lb. an hour machine that sells for \$35 to a 1,350-lb. machine that sells for \$160.

DE LAVALS are made to run by hand, or can be furnished with attachments for operation by various kinds of power.

We have agents in almost every locality who will be glad to set the machine up for you and give you a free trial, and we have an arrangement with our agents whereby a purchaser, if he desires, may make a partial payment at time of purchase, and pay the balance on easy terms revering a period of twelve mently.

If you are interested in the purchase of a cream separator, be sure to write for our new catalog which illustrates and describes in detail the features which have made the DE LAVAL the universal favorite among dairymen all over the world.

In writing please address your inquiry to nearest De Laval office.

### THE DE LAVAL SEPARATOR CO.

165-167 Broadway

29 E. Madison Street CHICAGO Drumm & Sacramento Sts. SAN FRANCISCO

173-177 William Street MONTREAL 14 & 16 Princess Street WINNIPEG 1016 Western Avenue SEATTLE

Sooner Or Later You Will Buy a DE LAVAL

98% of the World Creameries Us

### DE LAVA

### Cream Separator

Ten years ago there were a dozen differ makes of creamery or factory separators in a Today over 98 per cent of the world's creamed use DE LAVAL separators exclusively.

It means a difference of several thousand lars a year whether a DE LAVAL or some of make of separator is used in a creamery.

Exactly the same differences exist, a smaller scale, in the use of farm separators of ing to the fact, however, that most farm used not keep as accurate records as the creamman, they do not appreciate just what the difference between a good and a poor separator not to them in dollars and cents. Nine times of ten the farmer can't tell whether or not keep wasting \$50 to \$100 a year in quantity and got of product through the use of an inferior of separator.

Now, if you were in need of legal advice, would go to a lawyer. If you were sick you we consult a doctor. If you had the toothacke, would call on a dentist. Why? Because men are all specialists in their line, and you upon their judgment and skill. When it come buying a separator why not profit by the ence of the creameryman His experience ifies him to advise you correctly. He knows is separator will give you the best service and the most economical for you to buy. That's 98 per cent of the world's creameries use the LAVAL exclusively.

There can be no better recommendation the DE LAVAL than the fact that the mean make the separation of milk a business use DE LAVAL to the practical exclusion of all of makes.



AN ACRE BUYS MORE.

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Some of the most valuable statistical matter that is compiled in this country is to be found in the various reports issued by the United States Department of Agriculture. Some figres recently supplied by that institution give interesting comparisons be-tween the purchasing power of an acre of wheat or corn in 1899, as compared with 1909. These figures show that the value of an acre of farm crops, based on an average of ten leading products, increased 72.7 per cent during that ten year period while the implements, household goods, wearing apparel, staple groceries, hardware and other things which the farmer must buy advanced only 12.1 per cent in that time. This leaves a difference in favor of the farmer. The table further shows that the value of one acre of corn would purchase 481 bounds of barbed wire in 1909 as compared with 287 pounds in 1899. Almost the same figures would apply to nails, while wire fencing could be bought at the rate of 42.2 rods for one acre of corn in 1909 and only 25 rods in 1899. Binding twine showed 156.1 pounds for 1909, as compared with 93.9 pounds in 1899. In articles of household use it required the value of 2.3 acres of corn in 1899 to purchase a cook stove, while ten years later 1.4 acres would do it. At the beginacres of the period mentioned 11.8 acres of corn were necessary to buy a manure spreader, while at the end purchasing power of one acre of corn at the beginning and end of the ten year period for some of the household necessities was as follows: Coffee, 1899, 49.5 pounds, 1909, 80.4 pounds; four in barrels, 1.8 at the beginning of the decade and 2.4 at the end. In other words, if 100 were used as the value of the purchasing power of the verage of the different farm crops in 899 these same crops would have a purchasing power in 1909 as follows: Manure spreaders and mowers, 168; plows, 162; harrows, 153; double wagns, 152; cream separators, 190; barb vire, 162; woven wire fencing, 163. 100 represented the purchasing ower of the value of one acre in 1899, he average for 1909 applied to all the rticles in a list of 85 selected for omparison, including all commodiies bought by the farmer, then corn 1 1909 would have a purchasing ower of 160, wheat of 191, and the verage of all crops of 154.

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Twenty-five or thirty years ago factically every farm had its orchard and from this was derived not only a onsiderable revenue, but a delicious hange of diet which was appreciated y every member of the family. It is scientific fact which has long been nown to experts but which is only oming into the knowledge of some copie, that any great extension of the food supply of insects or birds ands to the increase of such pests. ith the great wheat fields of Kansas me a multiplication of the chinch ng, which was not known here bere that time. With the miles of owing corn came the root worm and r worms and other insect pests pre-ously unknown. With the planting orchards generally over the state me the increase in their insect foes. ack of care of these orchards, and many cases lack of knowledge, has sulted in their deterioration or utdestruction. Now, the San Jose le has secured a hold in the state seems difficult of eradication. It never ompt and effective measures are ken and these are best taken in the season. Application of he sulphur spray, applied during e dormant state of the trees, is the remedy that has yet been discoved which is efficacious. In strong lution this should be used in the nter season, though it may be used a dilute form for the destruction of ryae which appear on the trees in ly and August. This spray is also leient as a fungicide, though some ople prefer to mix with the old Boraux mixture in the belief that they aux mixture in the belief that they insure the best results. For bitinsects arsenate of lead may be
ked with the line supply ed with the lime sulphur spray h best results.

KANSAS FARMER EDITORIA

With which is combined FARMER'S ADVOCATE, established 1877. Published weekly at 625 Jackson St., Topeka, Kan., by the Kansas Farmer Company.

Albert T. Reid, President. J. R. Mulvane, Treasurer. S. H. Pitcher, Secretary.

Edited by T. A. Borman and I. D. Geaham. Chicago Office—First National Bank Bldg., Geo. W. Herbert, Manager. New York Office—41 Park Row, Wallace C. Richardson, Inc., Manager. Entered at the Topeka, Kansas, postoffice as second class matter.

SUBSCRIPTION PRICE—\$1.00 per year; \$1.50 for two years; \$2.00 for three years. Special clubbing rates furnished upon application.

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PICTURES—Good photographs, drawings and plans are especially solicited.

PICTURES—Good photographs, drawings and plans are especially solicited. Senders' names should always be written on the back of each picture. Kansas Farmer can not be held responsible for any picture submitted, except under special written agreement.

CONTRIBUTIONS—KANSAS FARMER is always glad to have correspondence on all farm, live stock or household subjects. Your name should be signed to all communications and they should always be addressed to

KANSAS FARMER COMPANY, TOPEKA, KANSAS.

A KANSAN DID IT.

The United States Department of Agriculture is the greatest educational institution, along agricultural li s, in the world. Its developmen as been rapid in the last few years. It has kept more closely in touch with the needs of the people than perhaps any other department of the Government. The vast amount of good it has accomplished, the real educational work it has performed and the rapid growth it has made have been due primarily to the efficiency of two men. Secretary Wilson at the head of the Department has read the needs of the people, the advancement of agricultural knowledge and the development of modern methods as none of his predecessors was able to do. His work, however, would have fallen are short of the results attained and those aimed at but for the able and efficient service rendered in another branch of the Government by another man. That man was a Kansan and to him, as to few other men in public life today, is due a mead of praise from all Americans who are interested in the agricultural development of the country, such as has not been earned by many men.

Hon. Chas. F. Scott, for many years a member of Congress from Kansas, and for the last decade the chairman of the House Committee on Agricul-ture, will have reason to be proud of the record which he has made when he leaves the House of Representativs at the close of his present term. Not only has the Department of Agriculture been increased in efficiency by reason of his work in the House of Representatives, but the agricultural interests of the country have been better conserved, the progressive legislation in behalf of the farmers more advanced, and restrictive measures for their protection rendered more ef-fective by the activities, sound judg-ment and good sense of Representative Scott of Kansas.

His record has been such that it has been generally conceded throughout the country that, should Secretary Wilson desire to retire from his office on account of advancing years, no better or more capable man could be found in the whole country to carry on the work which he has so advantageously begun than Hon. Chas. F. Scott. Such men are all too rare in public life and surely his state if not the nation, will have need of him in the work of conserving and fostering our greatest industry.

N N N

It would seem strange if the ordinary farmer were to try to sell his farm by the acre. Does it seem any less strange that he should sell it by the wagon load, as is true when he does grain farming only? Don't haul your crops to market; drive them on the hoof.

MORE FREE SEEDS.

Congress will appropriate \$289,680 this year for a continuation of the free seed graft. This is done in the face of the fact that the Secretary of Agriculture has protested against it as an unnecessary burden upon his department which is neither appreciated nor wanted by the people. It is done in spite of the fact that the people have protested through their congressmen, their granges, their institutes and their farm papers against it. It is done in spite of the fact that congressmen, who are the only beneficiaries, do not want it and it is done in spite of the annual deficits reported in the Postoffice department which has to bear the burden of the free dis-tribution of this seed and without which there would probably be little or no deficit.

The people don't want these free seeds, don't ask for them and don't plant them. The original purpose of the free seed distribution was to secure the testing of new and untried varieties by farmers in various sections of the country, and thus determine their adaptability to our soils and climates, but in practice it has worked out as a donation, by the government, of the common, ordinary farm and garden seeds which are bought from seed dealers in carload lots and distributed at an expense of seven months of time and three-fourths of the clerical help of the entire department.

If the postal department were relieved from the cost of distributing these wholly valueless free seeds and if it were allowed to charge for the matter carried under the franking privilege for other governmental departments and officers, there would not only be no deficit but an actual profit and a big one at the end of each

"The wetest February on record" is the gratifying statement made by numerous people whose memories do not cover the whole record but who are duly thankful for the drouthbreaking downpour. Many sections of the southwest have not had rain for some time and, in some places this has caused much trouble and expense for stock water. During this dry period the crop killers have been busy with their "reports" on Kansas condi-tions, regardless of the fact that other states have also had the dry spell and have suffered worse. Advices from the state generally and more particularly from the wheat belt, serve to show that the prospects are exceptionally good. Wheat, which was retarded by dry weather, is now showing up in good condition and present indica-tions point, so far as they can point at this time of year, to a good crop. Our crop killers get scared easily but they have plenty to eat just the same.

THE SEVENTEEN YEAR LOCUST. According to the daily papers much apprehension is being felt by people in different localities of the United States because of the current report that 1911 is the year for the regular appearance of the seventeen year locust. There need be no apprehension whatever and for several reasons. In the first place, the insect in question is not a locust at all, but a cicada, nearly akin to the common cidada or "dog day fly" which we hear buzzing in the trees every summer. Formerly a great deal of superstition attached to the appearance of the seventeen year locust, and predictions of war, pestilence and scourge were freely in-dulged in. Apparently it was not re-membered that none of these things ever came true.

It was also believed that the ap-pearance of this insect in such enormous numbers would bring devasta-tion to crops and trees, though it is now well known that the male insect never takes any food at all and the female dies as soon as she deposits her eggs. The larvae of this insect is said to be the longest lived of any known to entomologists. After the eggs are deposited by the female in little punctures made in the bark of trees by the saw like ovapositor, the young hatch out shortly and fall to the ground where they dig down to the roots of the tree and insert their beaks into the roots and there remain, feeding on the sap for sixteen years. The real damage which they do is done during their period of life under ground, and when they show above the surface in their winged form, they are beyond the power of doing any material harm.

They do not appear all over the country at one time. The entomologists of the Department of Agriculture have located about thirty centers of population for this insect and their appearance in each of these does not coincide. They may appear in one year in New Jersey, another in California, and still another in the California, and still another in the corn belt states. They are entirely harmless after they emerge from the earth but are splendid poultry food. The farmer who can stock up with a nice bunch of turkeys this spring and then grow a good crop of cicadae is pretty sure of profits this fall.

TEST THE SEED CORN.

Too much emphasis can not be laid upon the necessity for a careful inspection and testing of the seed corn this spring. The vagaries of the last season were such that corn is very uneven in its quality, even in those localities where apparently good crops were produced. This gives rise to special necessity for careful testing of the corn before it is planted, and this testing should be made only after the corn has had an opportunity to be-come thoroughly free from frost and remain so for several days prior to the testing.

Much seed corn will probably have to be purchased this spring, and in this it is well to remember that home grown corn is always the best where it can be secured. Southern corn planted in Kansas grows too slowly and runs too much to stalk to suit our climatic conditions. It is not likely to mature. On the other hand, northern grown seed will mature more rapidly and yield well, though if it comes from those states which have a much heavier rainfall, considerable time is likely to be required in order that it may be properly acclimated. Corn purchased from Kansas grown or from d gr states to the north and east, will undoubtedly prove the best. Wherever the seed is obtained, however, it should be either tested for vitality or be accompanied by a certificate of test from the dealer. It will not pay to plant seed of less than 90 per cent vitality while 100 per cent is none too little. A testing machine costs very little and proves its worth each year though fair results may be obtained through home made methods.

The corn binder and the silo will do more to get rid of weeds than any other combination of modern farm implements. The binder takes them off the field and the silo cooks the seeds so they cannot germinate. At the same time they make good stock feed if not too numerous in the silo.

## RAISING LARGER LITTERS

A large litter of heavy, vigorous pigs at weaning time is the foundation of profits. To secure it, prolific sows and the boar from a prolific strain must be selected. The boar must not be given over service and the pregnant sow must have the feed, exercise and care that will keep her exercise and care that will keep her in best health and condition and that will produce thrifty development in the unborn pigs.

At and after farrowing time the sow must be given shelter, bedding,

feed and care that will carry her through this period with the least dis-turbance and save all her pigs in good condition.

As the pigs gain in size and strength, the sow must be fed to develop her highest milk production, the young pigs must be taught to eat grain and other feeds before they are weaned. The weaning must be done so that the pigs are in fit condition to shift for themselves when they leave the mother and the sow's udder must be left in perfect condition for

These things look formidable to the beginner, and he is likely to consider that the expense will be too great, but successful methods are not a matter of expense but of good judg-ment and skill and daily attention to little details.

A young sow should be selected whose mother and grandmother have eight or more good pigs at a time, are heavy milkers and quiet, good mothers. The strain should be sufficiently active to thrive on pasture. The young sow should be thick, deep and lengthy and should have not less than ten good teats.

The sow pig intended for a breeder should be pushed for the first year and given feeds that will make rapid growth, but that will not fatten. Such feeds as milk, alfalfa or clover pasture, or hay, and moderate quantities of grain, such as wheat, peas, barley, milo maize, and shorts. She should weigh from 300 to 375 pounds at 12 months of age when in thrifty condi-tion, but not fat. Ample exercise ev-ery day is necessary for health and to develop muscles and lungs. If the sow has made good growth, she may be bred to drop her first litter when she becomes twelve months old. She should be in perfect health and in good flesh when bred. The gestation period for the sow is about 112 days.

As soon as the pigs have been weaned the sows should be culled and those that are cross or nervous or have produced small litters or are poor sucklers, should be discarded.

Good sows improve for several years in the number and size of the pigs they have at a litter. The United States Department of Agricul-ture compiled the records of over six thousand sows and found yearling sows averaged 6.65 pigs per litter, and five year old sows averaged 8.4 pigs per litter. At the Wisconsin Experiment Station the year old sows averaged 7.8 pigs per litter, with an average weight per litter of 14.2 pounds, while sows from four to five years old averaged 9 pigs per litter with an averag erage weight per litter of 26 pounds. The common practice of farmers selling their old brood sows each year and reserving immature ones for breeding is a bad practice, as the older sows are much better mothers and their pigs have a strong advantage in greater vitality at the start.

One of the most profitable sows the writer ever handled had a choice litter when she was nine years old.

The boar should be evenly balance good in every point. The custom of selecting a boar unusually strong where the sows are weak and perhaps weak where they are strong, is a dangerous one. The pigs can most easily inherit the weak characteristics of both parents.

The boar is more than half the herd, so far as influence goes. Each year he may show his strength or weakness in a hundred or several hundred pigs, and it is most impor-tant that he should be of the right type and in great bodily vigor with such strongly bred ancestors that he will with certainty produce pigs of uniformly profitable type, good feeders that will mature early. should be selected whose mother and grandmothers have had large litters. The boar should be pushed with Good Blood Lines With Proper Care Will Bring Success To All Breeders

By PROF. HENRY M. COTTRELL

growing feeds, so that he will make a growing feeds, so that he will make a gain every day until he reaches full, mature weight. A mixture of any two or more of the following grains is good: Corn, barley, or milo maize; with wheat, peas or shorts. A liberal supply of skim milk is especially good. He should have all the alfalfa or clover he will eat every day either or clover he will eat every day, either pasture or hay. A small feed of roots or cooked potatoes is good. Stunting, even for a short time, will permanently injure his value. He should weigh 300 to 400 pounds when 12 months old.

After reaching full growth, the boar, when not in service, should be given bulky feeds that will keep him full, satisfied, and in good condition, but that will not put on fat. Alfalfa, roots, and a small daily ration of any kind of grain.

A few weeks before the beginning of the breeding season the grain feed of the preeding season the grain feed should be gradually increased, and the amount of roots and alfalfa should be slowly reduced. The animal should be put in perfect condition and good flesh, but not made fat. The best results are not secured from a sire that is either fat or thin.

During the breeding season the boar should have an abundance of food, using the same combination as recommended for him while growing, except just sufficient succulent feeds should be given to keep his bowels in good condition. A full supply of succulent feed at this time is likely to make him infertile.

The boar should have comfortable shelter at all times—dry and free from drafts. His surroundings should from drafts. His surroundings should be kept free from vermin. He should have daily exercise to keep him healthy and muscular. A half-acre pasture will furnish this. He will keep better natured and be easier to handle if allowed to run with the barrows outside the breeding season. It allowed to run with the sows during the breeding season, he will weaken himself by over service. At other times there is danger that he will in the sows during the breeding season, he will weaken himself by over service. At other times there is danger that he will in the sows the best of the source between the source jure the sows. Keeping him in close, dirty quarters, or allowing him to range over the farm and neighborhood half starved, are both sure ways of making him valueless. Too much attention is rarely given to the boar, and his health and comfort should be looked after every day throughout the

The boar should serve a sow but once, and two sows a day should be the limit for a mature boar, and then he should have a day's rest after every second or third day. He should be used before being fed. Handled in this way, a mature boar is sufficient for fifty sows. Over service results in pigs that are dead, weak or puny at birth. Probably the greatest cause of pigs born dead or born so weak that they soon die, is allowing the boar to run with the sows. It is a sure way of reducing the number raised in a litter and of reducing the

A boar should not be used for much service until he is at least twelve months old. A fully matured boar produces the most vigorous pigs, other things being equal, and if properly fed and handled, may be profitably kept for several years. tushes should be cut or knocked off as often as they show considerable

Mark the sow when bred and record the date so that she can be separated from the other sows and become accustomed to her farrowing quarters two weeks before the pigs are due.

While pregnant, the sow should be given muscle and bone making feeds that will develop in the unborn pigs size and strong vital organs. When the sow has good alfalfa pasture, only a small quantity of grain is needed. The sow should be kept in good flesh, but not fat. A heavy condition of flesh is favorable if it is put on with muscle making feeds and the sow has been given ample exercise. Under feeding is extremely detrimental. The pigs from a half-starved sow are weak and undersized at birth, and are stunted while suckling from lack of sufficient milk.

Sows fed much corn while pregnant make poor mothers, do not give a full supply of milk, are likely to be clumsy and the pigs are often small and weak. Peas, shorts, tankage, skim milk, and alfalfa, clover, cow peas or peanut hay or pasture are the feeds to give the sow for developing strong pigs at birth.

Corn is deficient in the bone, mus-cle-making and blood-making materials necessary to develop the unborn If the sow does not have these materials in abundance, the pigs are small and weak and the supply of milk is poor. A sow fed corn without

enough bone and muscle making feeds to supply the demands of he unborn pigs is often so feverish and unsatisfied that she eats her pig when they are born. All the alignth hay she can eat daily or a good supply of skim milk are cheap feeds and unequalled as a balance to corn unequalled as a balance to corn.

Constipation in the sow while she is pregnant or suckling must be avoided. Pig eating is often cause by constipation. Laxative and bulk feeds, such as pasture hay, will prevent this trouble, and should for part of the daily ration. Exercise is part of the daily ration. Exercise in necessary to keep the bowels in good condition. Small feeds of roots and good. Heavy feeding of roots is often the cause of weak or dead pigs at birth. Feeding frozen roots is likely birth. to cause abortion. The pregnant sw should be fed, sheltered, exercise and handled in such a way as to kee her in good flesh and health. Ever-thing that facilitates this condition tends to secure pigs with great vigor and more profitable as feeden A blow or a strain of any kind a the belly of the pregnant sow is like

ly to result in pigs dead at birth, pigs born the wrong way, with the consequent injury to the sow, or he death. Sows had to step over a strinch board in passing through an open ing between their yard and pastur. Thre were many dead pigs at in rowing time, and some of the son died from trouble while giving birt The ground next to a hog pen w eight inches lower than the floor, and the brood sows had to climb over the step-dead pigs and dead sows at to rowing time was the consequent Potatoes were dug with a plow at the land left in ridges. Pregnat the land left in ridges. Pregnate sows had to travel over these to get to a field. At farrowing time the were many dead pigs, and two sow died. A boar allowed to run who sows that are bred will frequent knock them around and bring the same trouble. Horses or cattle we ning in a lot with brood sows will deep injury the sows the same trouble. ten injure the sows the same was Not over five or ten bred sows should be allowed to sleep together, a crowding in cold weather may rest in losses at farrowing time. Pre nant sows should not be allowed a

nant sows should not be allowed in rin with fattening hogs.

Two weeks before the pigs are opected the sow should be placed in farrowing pen connected with a diversity yard large enough to allow her to a ercise. Her bowels should be kelloose. She should have dry, sund shelter, free from drafts. The so should be petted, so that she will be to have her feeder handle her. to have her feeder handle her.

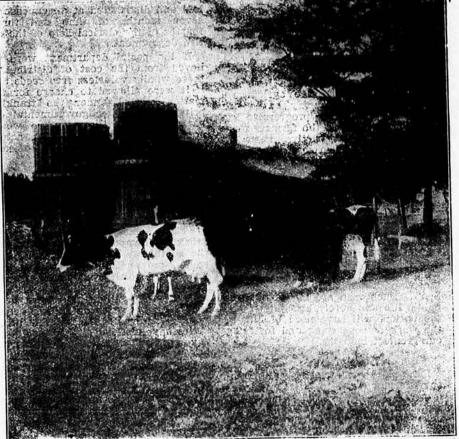
It is best to have the sows fame at nearly the same time, and then owner can watch them day and addring farrowing time. There shall be just account to the same time. be just enough bedding for comb and dryness. Cut straw or chal-best. Little pigs often get tangle deep straw and are either cr the sow or die from exposithe sow as little attention.

while she is farrowing, unless must have assistance. In set weather place the pigs as fast as come in a basket in which a blast is laid over a warm stone. Ke them well covered, and after all born and have become warm and take them to their mother and pleach one at a teat. Then cover mother and pigs. During the forty-circle to the solution of the s forty-eight hours watch carefully, if a pig strays from its mother, put back against her body where it

Give the sow all the water of the first twenty-four has after the pigs are born, but no gr Take the chill off the water in d vants for the first Take the chill off the water in weather. For three or four days the first twenty-four hours, plenty of water, but feed grain milk sparingly. Then slowly increduding the sow is having all the feed will consume. Give the pigs extended and sunshine from birth, but do and sunshine from birth, but do allow them to get damp nor to be posed to the wind.

slop, or other milk producing just after her pigs are born, a sin milk flow is forced. The new pigs get too much and have

When the sow is given a warm, rhoea, which often kills them cannot take all the milk, and (Continued on page 19.)



WHERE THE MONEY GROWS, OUT THERE IN KANSAS.

## he Influence of The Sire on The Herd

The subject, "The Influence of the Sire on the Herd," is an exceedingly mportant one and the western reeder is beginning to understand its preeder is beginning to understand its meaning better than ever before. This fact is borne out by the great lemand there is now and has been uring the past few years, for pure pred sires. This subject is of equal apportance to all breeders whether the net stock is dairy cattle, beef catis pet stock is dairy cattle, beef catle, horses, sheep or hogs. In speak-ng of the value and influence of the ire in the herd, one generally infers he common or grade herd of cattle; or in such the sire has the greatest fluence and is most needed. By the se of good pure bred sires, it is posble in a very short time to breed anmals that are more uniform in type nd quality and as a result, the off-pring are more valuable when sold n the market, no matter for what urpose they are used or to what class live stock they belong.

Such system of improvement is alled grading, and for the small eeder this is the quickest, most ecoomical, and most profitable method follow in building up the herd.

The main requisite for success in is work is the selection and contin-d use of good sires that are typical r the breed. As shown in the fol-wing chart, the continued use of are bred sires in the herd will result the offspring of the sixth generaon being practically pure bred anials:

TECT OF THE PURE BRED SIRE IN THE HERD.

Generation	ires er cent urity	Dams per cent	purity	r cent
g	v. = a			per
1 2 3 4 5 6	100 106 100 100 100 100	0 50 75 87 1/2	50 75 87 93.75 96.8 98-44	1-2 3-4 7-6 15-16 31-32 63-64
5	100	93 % 96 %	96.8 98-44	31-32 63-64

As is seen by this chart, the off-ring of the sixth generation is 63-64 re bred. Such improvement is, of arse, limited to the improvement of herd of animals of a breed and not the breed itself. For all practical rposes such animals are as good as re bred animals, but they can not registered in the herd books. seneral rule, this system of building a herd of cattle is the best, especly for the small farmer. rd by buying a herd of pure bred males to start with. Such a prac-e is not only costly but often rets in the discouragement of the

or the large breeder who handles pure bred live stock, the prob-of breeding better stock than he has is by no means an easy to the very reason of the influsire on the herd. When a or cattle has been brought to an lost perfect state, the breeder must rcise rcise the best knowledge and gment he has to keep up the qual-The selection of the sire for use a herd that is already established a different problem and also an exsive one. The best illustration wing the influence of the sire on herd is obtained from records de in the Jersey dairy herd at the souri Agricultural College. The sey herd at that institution was rted 26 years ago. Four registered at the present time has dended from these cows. Records of k and butter fat production of each and butter-fat production of each in the herd has been kept for alat twenty years. Six different bulls to been used at the head of this and the records made by the mbers of the herd will furnish a vaccurate record of the influence

h bull with the records of their he first bull used in the herd was souri Rioter; he was a son of the ous Bachelor of St. Lambert. ut the only animal of any note in bull's pedigree was his sire. This left 4 daughters in the herd and following table gives the compari-

each sire as it is possible to come the records of the daughters of

Good Sires Build Up Herds, Poor Ones Destroy Them, Good Sires are Invaluable

By O. E. REED, Manhattan, Kan



THE HOLSTEIN, THE SILO AND ALFALFA MADE KANSAS INVINCIBLE. SCENE ON THE FARM OF S. E. STOUGHTON, HUTCHINSON.

son of the records of these daughters with their dams:

Average milk yield.... Dams Daughters Average per cent of fat... 4.85 Average yield of fat... 234 216

It is noticed that the average production of the daughters was 1,009 pounds of milk and 18 pounds of butter-fat per year, below that of their dams. In every instance the daughter was inferior to the dam. It is evident that this bull gave the herd a setback. The next bull was Hugorotus; he was a cheap bull and did not have any particular backing in his pedigree. He left 11 daughters in the herd, and the following table shows the record of these daughters and their dam:

Average yield of milk... 4969 4576
Average per cent of fat. 4.66 5.49
Average yield of fat... 231 245
The daughters of this bull did not

come up to their dams in production. They fell 393 pounds of milk below their dams and made an increase of fat of 14 pounds in the year. This in-crease of fat was due to the milk testing higher. Only five of the daughters were as good or better than their dams; the rest were decidedly inferior. It is noticed that as long as this bull was in the herd that the tendency was backward.

The next herd bull was Lorne of Meridale. It seems that some care was taken in the selection of this bull the herd header, since his pedigree contained animals with large records of production. The comparison of his daughters with their dams in the college herd show that he was a very good producer and that his backing showed up in his offspring

Daughters 5969 4.81 287 Average yield of milk. 4559 Average per cent of fat. 4.85 Average yield of fat. 221

As noticed in the table, his daughters made an increase in both fat and milk production over their dams, and increase in milk production of 1,410 pounds and 66 pounds of fat. One re-

markable thing about the daughters of this bull was that the large majority of them was as good or better than their mothers, only two out of the 12 daughters fell below their dams in production. This bull made a remarkable increase in production in the entire herd and we can get an estimate of what a good bull is worth to a herd from studying the records of the daughters of this bull in the herd. The 10 daughters made an average in crease per year of \$150 over their dams, figuring the products at ordinary butter-fat prices.

The next bull at the head of the herd was Missouri Rioter 3d. This animal was sired by the first bull used in the herd. He was raised on the college farm and kept for use in the herd; the main reason for keeping him was that he was out of the best cow in the herd. This bull sired the best cows that were ever in the herd; the following table shows a record of production of the daughters as compared with their dams:

Average yield of milk... 4609

Average per cent of fat.. 5.16

Average yield of fat... 238

Unfortunately, only 3 daughters of this bull was left in the herd, and he was sold before his value was found out. His daughters made an increase of 2,546 pounds of milk, and 110 pounds of fat over their dams.

Minette's Pedro was the next bull

used at the head of the herd. His pedigree showed many high producing animals, and, judging from this we count him as an excellent bull. He left 20 daughters in the herd, and the following tables give their records as compared with their dams:

Average pounds of milk. 5821 5376
Average per cent of fat. 5.04 5.04
Average yield of fat. 248 271
One-half of the daughters made a lower production than their dams and

the other half was some better than their dams; but on the whole, the production of the herd was not increased; but the daughters made about the same average production as their dams. They gained in actual figures, 55 pounds of milk and 3 pounds of butter-fat for the entire year. The best daughters sired by this bull were out of the best cows in the herd, and the poorest daughters were out of the poorest cows in the herd, so this gives emphasis to the fact that this bull kept the herd at a standstill, not making an increase or a decrease. The last bull used in this herd was Brown Bessie's Registrar, and the following table gives the comparison of his daughters and their dams:

Average pounds of milk... 6029

Average per cent of fat... 4.86

Average yield of fat... 283

The figures represent the records from 5 of his daughters in their first period of lactation and do not really give a fair compension of his volve.

give a fair comparison of his value or influence; but from these records it is noticed that the daughters are quite inferior to their dams. These records show in a very striking manner how difficult and important a matter it is to select sires for use in a herd so that we may look for good results in the offspring. Another fact that is also brought out by the above records, is the importance and necessity of keeping the bull in the herd until he proves himself to be either a good or a poor producer; it also shows that it pays to keep the records of milk and butter-fat production of each cow in the herd.

In selecting the gire for the herd, a great many breeders, particularly among the amatuer breeders, make only one demand—that the sire be pure bred or registered. One should go farther than this and demand that the ancestors of the animal in ques-tion be animals of merit, large pro-ducers and be typical for the breed. A great many of the pure bred bulls in use today as herd headers are no better than scrubs. For the best results we should demand that the female ancestors be large producers of milk and butter-fat instead of being satisfied with knowing that the sire or dam or some other animal in the pedigree carried off the show ring prize at a certain fair. The dairyman is primarily interested in how much milk and butter fat he can obtain from his herd. This is the basis of income and profit. Very few milk producers or dairymen will ever lead his herd bull into the show ring; then why should so much attention be paid to the show ring ancestry of the bull or of the bull himself? I would not say that one should breed and select animals for records or production entirely, but this should always come first; the type and character of the individual should come second. The immediate ancestors of the herd bull are the ones that should concern us most; it is more important that his dam and grandams be high producers than for him to be related to some great and and wonderful cow that appears in his producers five or six grantians back. pedigree five or six generations back.
Too much attention is paid to individual animals or families that may be represented or appear in the pedigree. Some men hold that a bull is valuable because he traces to some famous animal that lived five or six generations ago and probably sold for a fabulous price or held some other distinctive

In selecting the herd buil, there are two courses open to the breeder; the one is to select a young bull, and the other is to select an old bull that has been tried and proven to be a prepotent animal. The first method is the vantage in selecting a young bull for vantage in seelcting a young bull for the herd is that it is cheaper and less risk is attended toward getting a mean and ugly bull as well as bringing any disease into the herd. In se-lecting a young bull, one runs greater risk in getting one that will transmit the characteristics desired than in selecting an old bull that has been tried. The performance and records in the ancestry is about the only guide that can be used in this selec-When one selects an old bul! that has been tried, he has some certainty that this animal will raise the production of his herd. When this can be done, it is probably the best method to use; but where one knows the value of a bull, the price asked for him is oftentimes prohibitive.

### AID FOR RURAL SCHOOLS

Kansas has millions of cash in her school fund. This fund represents the only aid that is given to rural schools outside of that derived from the local districts. Kansas is one of the very few states in this Union which does not give state aid to rural schools. The interest derived from the school fund is a gift by the general government to the people of Kansas and, while it looms large in the aggregate, is produces a very small sum for school use. The available funds de-

rived from the interest on the school fund amounts to about 96 cents per year for each pupil and of course the cities receive the larger share of this. In the country school this fund would hardly buy the coal necessary to heat the school room. Everything else in the way of furniture, equipment and teachers' salary must be provided for out of the pockets of the local taxpayers. The present legislature is considering a means by which the weaker rural districts may be helped by state aid.

### The Best **Spring Tonic**

Horses need Pratts Animal Regulator to prepare them for coming hard work and hot weather. It is a great conditioner for cows and hogs, too, in the Springtime. It purifies the blood and tones the whole system.

### Pratts, Animal Regulator

soon pays for itself. The increased value of your stock and saving in feed will mean many dollars a season to you. You'll be surprised to see how quickly it will bring up your stock. We want you to try Pratts Animal Regulator at our risk—it is

#### **Guaranteed or Money Back**

If you think the results do not come up to our promises, tell your dealer and he will give you back all you have spent. This is a good time of the year to test it.

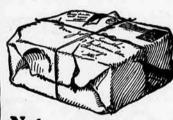
Get some now. At all dealers, 25 lb. pails for \$3.50. Smaller Sizes and 100 lb. bags.

Pratts Veterinary Liniment cures Rheumatism, Lameness and Inflammation

Send for our book about Horses, Cows and Hogs. It is Free. Philadelphia, Pa. PRATT FOOD CO., Dept. 28 -

### **Buy Your Watch**





Not This Way

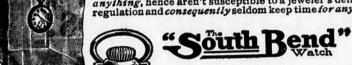
You men on the farm should buy your watches of a retail jeweler

for this reason:

Good watches need regulation by the jeweler to the personality of the man who carries the watch. Why? Because the way you carry watch affects it. If you stoop over a great deal, or ride much over rough roads in a farm wagon, or walk unevenly behind a plow it makes a difference in the way the watch runs. In other words, the general conditions under which you work and under which another man works are usually different and that difference affects every good watch. The watch you carry for months, if handed over to neighbor Smith, for instance, may not keep good time for him though it did for you all the time.

Now an expert jeweler can make a good watch—a South Benewatch—keep perfect time for you. First, because it is a good watch and second, because he is an expert jeweler. Only such jewelers sell South Bend Watches—we see to that.

Poor watches—and few mail order watches are any thing else—are not sensitive enough to be affected by anything, hence aren't susceptible to a jeweler's delicate regulation and consequently seldom keep time for anyone.



Do you get the point? It a horse hasn't an sense you can't teach him anything. Buy a goa horse; train him right, and he's a Frozen in Solid Ice Keeps Perfect Time dandy. Same with a watch.

dandy. Same with a watch.

Go to your jeweler and ask him about this. If he hasn't the South Bend Watch he may say, "Nothing to it." If he does that send us his name. We want to educate him. Also, ask for our free book, "How Good Watches Are Made." We'll send it and tell you the name of a jeweler near you who has a South jeweler near you who has a South Bend and who knows. Write for this

The South Bend Watch Company South Bend, Ind.

ABeautiful pibute street Special prices to churches and cemeteries. CELONE FENCE CO., Dept. 131 Waukegan, Ill

## THE FARM



Not every farmer can grow alfalfa but there are many who can grow it who do not. There are certain sections in Kansas where limestone is absent from the soil or where the cultivated portion of the soil lies too high for the lime rock beneath to have any effect upon it. Wherever alfalfa can not be grown in this state the chances are that the fault lies with the farmer rather than with the land. In some cases they have sold off hay from their land until it is so impoverished that alfalfa can not get a good start. If such land can be put into fine tilth and perhaps inoculated with soil from an old alfalfa field it may be possible to raise alfalfa, particularly if the land has been enriched. Where the land is too wet for alfalfa or red clover, alsike will return a profitable crop. With the turn a profitable crop. With the many kinds of alfalfa that are now known there should be some kind that would grow in every nook and corner of Kansas, provided the land is properly prepared and the seed properly sown.

### Sorghum for Green Manure.

I would be pleased to know if there has been any experimenting done at the Agricultural College or among the subscribers of KANSAS FARMER in regard to the benefits to be derived gard to the benefits to be derived from sorghum as a green manure if it be plowed under after a moderately rank growth has been established.—
W. N. Oles, Chase county.

None of the sorghums have qualities that would make them highly valuable for green manure, when com-

uable for green manure when compared with members of the legume family, like alfalfa, cow-peas, soy beans or clover. The sorghums do not decay readily and do not add very materially to the fortility of the cost materially to the fertility of the soil, so they could hardly be recommended for green manure, though of course they would have a value in adding humus to the soil where needed. Our suggestion would be that it would pay vastly better to use alfalfa or some other legume for this purpose and thereby secure the double benefit of enriching the soil in nitrogen and adding humus from the green crop at the same time. If it is not practical to sow alfalfa with your oats or other spring crops, it would be perhaps wise to sow soy beans with the last cultivation of corn or sorghum and then turn under the bean crop. If you will do this you will find that the results will be vastly better than you could get from any manipulation of the sorghum.

#### Steam and Gas Tractors.

The economy of plowing, harrowing, disking and seeding by means of the tractor is generally recognized and, as a consequence, generally popular. Many farmers are not satisfied, however, as to whether the steam or the gas tractor is the better and this matter has been studied out carefully by L. W. Ellis of the Department of Agriculture, who draws the following

conclusions: Both steam and gasoline tractors have their advantages for plowing and harrowing. The former are more advanced as a class and are built in larger units, and hence are popular where conditions demand great power as in breaking large acreages. The steam engines as a class have a larger reserve power over the nominal rating than gasoline engines and greater tractive efficiency per nominal horsepower. On the other hand, gas-oline tractors, possibly on account of size, can usually transform into effective pull a larger percentage of the power actually developed than can steam tractors. No great difference n weight per actual brake horsepower exists, but a slight advantage in favor of gasoline tractors as to weight per actual draw-bar horsepower was indicated as a result of competitive tests at Winnipeg in July, 1909. Both, it may be said, were coniderably below the horse in weight per unit of pulling power, and of

course had a still greater advantage in driving stationary machinery. greater weight of supplies must be carried by steam engines, this, of course, adding nothing to their strength. Gasoline engines are usustrength. ally capable of longer runs without replenishing supplies, and less time is therefore lost on this account. They have the advantage in being quickly started and in not consuming fuel when not at work. The matter of supplying fuel is simpler and the expensive process of supplying water is reduced to a minimum. Internalcombustion engines as a class convert into work a much greater pro-portion of the thermal units in fuel than do steam engines, but present types are restricted in the kinds of full which can be used to advantage. Steam engines use a wide variety of fuels with little difference in efficiency and are consequently less dependent on limited sources of sup-

#### Disking Alfalfa.

Will you kindly advise me through the columns of KANSAS FARMER if it is advisable to disk a two year old alfalfa field with the idea of increas-ing the yield of the alfalfa crop. My tenant protests, and states that disktenant protests, and states that disking serves to increase the growth of crabgrass and weeds. This alfalfa field is on bottom ground in this county and only has a fair stand. Kindly give instructions how and when alfalfa field should be disked if you so advise.—J. Hudson McKnight, Wichita, Kan.

Disking alfalfa will depend a little on the quality of the soil. Bottom land in Sedgwick county is generally understood to mean river bottom land and this is more or less sandy. Perand this is more or less sandy. Perhaps the question can best be answered by giving the experience of the members of the Shawnee Alfalfa Club who severally own alfalfa fields ranging from the sandy river bottom to the tops of the highest river bluffs. Fifteen members of this association, at one meeting, reported that they had used the spike-tooth harrow or 'alfalfa renovator" with decided success, and none reported against it One farmer who owned alfalfa on the sandy river bottom used a common disk with excellent results while andisk with excellent results while another who owned land in alfalfa of the top of a high river bluff reported that he used the common disk on his land with equal success, but that he cross disked the field. All agreed that the spike toothed harrow, as well as the common disk, will frequently split the crown of the alfalfa plant, but this only serves to give it new but this only serves to give it new energy and to really start new plants. The membership of this club is com-posed largely of alfalfa raisers who live in Shawnee and four adjoining counties. They have studied the alfalfa plant in their monthly meetings for nearly four years and their universal verdict is in favor of disking. Instead of increasing the growth of crab grass or foxtail it is the one sure method of getting rid of them. Both of these grasses are annuals and mar of these grasses are annuals and maj be cut out by the disk or spike tooth harrow and destroyed while the alfalfa stand is thickened up and bene One of the best alfalfa ra in this country runs his spike toolh harrow over his alfalfa field after each cutting, but perhaps a very satisfactory way would be to disk in the early spring when the ground is in good condition and before the growth has started too much.

Concrete has many useful places of the farm but do not permit yourself to think that the flooring of a cow stable is one of them. A concrete floor is ideal in many respects but it has one fatal fault. No animal should be compelled to lie upon a concrete floor, especially in winter. Rough concrete built up to within two inches of the desired height and then covered with two inch planking makes at ideal floor for all planking makes at the ideal floor f ideal floor for either horses or cattle

The Concrete Metal-Lath Silo. uring the past year over four hunsilos have been built in Kansas.
greater part of these have been
stave construction. The Agricul-College does not advocate any icular kind of sila, concrete, wood k or stone—all may be used and satisfactory results if the sile is gerly constructed. Improperly gructed silos will be unsatisfac-whatever material is used. Owto the general lack of knowledge rding silo construction and espec-

as to the use of concrete as a erial, the extension department of Agricultural College offered last ng to furnish expert superintendin the construction of cement during the spring and early sum-During the season 23 of the rete metal-lath type of silos first by the United States Departof Agriculture were constructed er the direction of members of the nsion department. Help was also in the erection of a number of

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nce many more silos will un-tedly be built during the coming the satisfaction which this type onstruction has given and their will be of general interest to y of our farmers. The reports as e character of the silage which he character of the sligge which taken from them during the past er will be of special interest from fact that many statements have made that sligge would not keep cement silo. This is undoubtedly of improperly constructed cement and is equally true of improperonstructed wood silos. The extended wood silos. The extended wood silos built under touch with the silos built under irection, both by correspondence by personal visits in many cases. wners have reported without an them, in every particular. All reported the silage to be in percondition clear to the wall, with exception of a few feet at the top.

writer and others from this dement have visited a number of
and found the silage keeping ctly, with the exception of some ed silage around the outside for a eet down. We have found this difficulty in practically every spected of whatever type of conion. It has been caused mainly ck of proper care at the time of and will occur in any silo where atside is not thoroughly tramped g the process of filling and eslly at the top, where the tramp-hould continue around the sides e silage settles.

cost of this type of silo has somewhat in different locals Owing to the varying costs of and materials. In some places was procured for the hauling and hers it cost as high as \$1.50 per in addition to hauling. The fol-g are the cost price of a few,

the general range: by 30 Silos—(1) \$178.05; (2) 3; (3) \$281.81; (4) \$250; (5)

by 30 Silos—One at \$208.80; at an average of about \$200.80; at an average of about \$200; one 31.84. One 18 by 34 sile was at a cost of \$296.52. The lowest of a 16 by 30 sile was the one 78.05 and the highest one at a labor was constructed labor was expected. labor was extremely high and of it unsatisfactory. It should me in mind that these figures it to the price given on stave. The roof is not included in the given. Roofs have been don silos of this type at a cost to \$25, where some type of asto \$25, where some type of asor felt roofing material has been G. C. Wheeler, Institute Assist-Animal Husbandry.

### Quarantine Laws.

at is the penalty for taking s, cattle and hogs from Kansas Oklahoma without a health certe? Who is the legal examiner lansas?—J. W. Stewart, Harlan,

quarantine regulations governtransportation of live stock Kansas into Oklahoma are made United States Department of ulture and provide that all catjust be inspected for tuberculond horses for ticks, though we hable to learn just what the pen-is for infringement of this law. is a Government regulation the ty is Pobably severe enough



The Central Commission Co., of Topeka, Kan., Agents for Topeka and adjacent territory would like to have you callion them for demonstration.



and the enforcement sure.

The state veterinarian is the proper inspector but under the present laws of Kansas he must act under the di-rection of the state live stock sani-tary commissioner. Full particulars may be had by addressing Hon. J. M. Mercer, Live Stock Sanitary Commissioner, Topeka, Kan.





### Don't Step Over Dollars To Pick Up Pennies

The difference in price between a poor cream separator and a good one's only a drop in the bucket when compared to the difference in profits. It is the every-day actual loss of butter-fat profits—and the expense and annoyance of constant breakdowns and repairs that make a cheap separator a poor investment at any price. Add to that the fact that a cheap separator is usually hard to turn, hard to clean and soon wears out anyhow, necessitating complet replacement and you will realize the advantages of getting a good separator right from the start, even if it does cost a few dollars more.

A cream separator is such a great institution—so

A cream separator is such a great institution—so great a money maker—that people are often "satisfied" with a very poor one, if they have never used a good one. Remember, it isn't the first cost of anything that really counts; the question you and we and every one must answer is what is going to be a paying investment, not only today but for years to come.

EMPIRE LINE of Quality Cream Separators

—is famed throughout the world for their close skimming qualities, for their easy turning, easy cleaning and long-last-no advantages. When you buy an Empire, you are sure it will be a constant source of profit as long as you will need a separator and then be a big enough money-maker to be worth passing on to your successor. Our catalog, stamped and ready to mail as soon as we know you want it—will tell you what the real tests of a cream separator should be. We make no claims. FACTS regarding the Empire line are the strongest advertising in the world. Write us a postal now. Read all the facts about Empires—note that they are made in

Different Styles—Different Sizes

—so that you can get all the Empire advantages, regardless of what style or size meets your needs. An excuse for selling a cream separator is no basis for your choice. We manufacture all the really good methods of separation—we have no choice—you do your own choosing from an unbiased standpoint, and from a complete line.

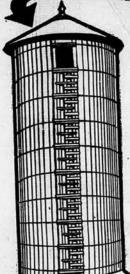
Free Guide To Dollars-

The Empire Catalog is the surest guide to Dairy Profits. Don't you want this fine book? It is free. The quicker you write for it, the sooner you will get it—and the sooner you will know all the real facts about real good cream separators. Now is the time when your cows begin to pay. Start right by addressing a card, for the Empire Catalog, to the

Empire Cream Separator Company Dept. 1, 1225 Wabash Ave. CHICAGO, ILL.

FREE Book-Guide to Dairy Profits

## Kansas Hinge Door Silo



#### SAVES ITS COST EACH YEAR

It will enable you to keep three cows where you now keep one. It will reduce the cost of producing beef, milk, mutton and eggs. It will build up your soil and increase the value of your land. It will make one acre of corn worth two.

IS BUILT TO LAST.

Washington Fir, fully seasoned, is used throughout. Government tests have proven that it stands moisture and has a low degree of shrinkage and expansion.

POWERFUL FRAME AND LADDER.

A silo must be built to stand the storms that will come upon it. That is why we use a strong steel frame—the strongest frame we

The ladder is made of malleable iron-will bear the weight of five men-steps 15 inches apart, with 7-inch clearance.

CONTINUOUS HINGE DOORS.

The HINGE DOOR is patented. It is the one great improvement in silo construction. It makes the KANSAS SILO the leader. The HINGE DOORS are always in place, easily swinging into and out of position and are not scattered about the farm as box covers or

"stepping stones" across muddy places. They will not bind or freeze and do away with the necessity for carrying them up and down the ladder.

FULL LENGTH STAVES.

No "spliced" staves in the KANSAS HINGE DOOR SILO. Full length staves only, regardless of height. "Spliced" joints or two-piece staves are apt to bulge or break. The Full-Length Silo is far superior.
HIGH QUALITY BUT NOT HIGH PRICE.

We could not build the KANSAS HINGE-DOOR SILO better. The highest quality material-every modern convenience-yet the price is but little higher than prices asked for Yellow Pine

Silos, which soon twist, warp and decay.

Write at once for prices, together with fully illustrated circulars, and proof that the Kansas is the cheapest Silo you can

CONTINENTAL CREAMERY CO.

BOX 211, TOPEKA, KANSAS



Use it like lemon and vanilla. A delicious syrup is made by dissolving white sugar in water and adding Mapieine. Grocers sell Mapleine; if not, send 35c for 20z. bottle and recipe book. Write to Dept. GRESCENT MFG. CO., Seattle, Wash.



Hot water will not injure milk vessels any and it will help the pocketbook if used on these vessels.

Straw used for bedding becomes a valuable asset. If allowed to stand in the stack it is a liability.

The average price for milk cows has increased nearly 9 per cent within the past year.

An eastern paper states that the dairymen are all looking forward to the time when they can quit the business. Using a scrub bull is about the quickest way.

It requires just about so much feed to warm water for animals to drink. The water must be warmed either by the use of coal or wood in the stove or corn in the cow. Which is cheaper?

Winter butter is very often not so good as summer butter and the reason in nine cases out of ten, lies in the dairyman and his methods. Nature attends to the matter of flavoring dairy products pretty well in the summer time but man must help in win-

Tribute to the Dairy Cow.

When we awake we behold the walls on which the plaster has been held by her hair; we fasten our clothes with buttons and we comb our hair with a comb made from her horns; we put on our feet a pair of shoes made from her skin and we enter the dining room and we sit down to a tempting breakfast, we find she has provided us with a piece of cheese, a cup of milk, a pitcher of cream for our coffee, a plate of hot cream biscuits, a dish of butter, a smoking beeksteak, and, above every thing else are the bright, interesting, idolized children whose foster mother she is. We go to our office and fasten together important documents with glue made from her hoofs, and when we go to dinner we enjoy from her bountiful provision, soup made from her tail, elegant roast beef, pumpkin pie made with her milk out of pump-kins grown on land fertilized with her bones, and we eat it with teeth that through a chemical process has been made from her paunch. She is the only animal that works day and night. By day she gathers food, and by night she converts it into those articles of diet and usefulness. In this country she commenced her mission at Plymouth Rock, and tied behind the dusty emigrant wagon she has gone with man to the setting sun. As westward the star of empire took its course, she went in advance of civilization, and not only prepared the way, but made it possible for the early settler to stay. It was her sons that hauled the emigrant wagon and broke the sod in the early settlement of this country; she endured all the hardships of the pioneer, and during her march, as well as when settled, she picked up the straws that blew her way and furnish the milk to fill the breast of her who rocked the cradle and fed the babe that became a ruler.-W. Marple.

#### Future Dairy Cows

An Illinois dairy farmer who has studying the situation thinks there is a big business in sight for farmers who can buy and raise dairy The demand is certainly growing and as we gain more knowledge of better methods the demand will still be greater. This farmer

'It is my opinion that if more farmers do not grow calves instead of vealing them we will soon face the greatest shortage of dairy cows that ever existed in this country. The increasing demand for milk and cream in the cities has greatly increased the dairy industry, especially in the last few years. Take for instance, just one article of food made from dairy prod-

ucts, namely, ice cream. A few years ago it was hardly ever served outside of the summer months. Today it is one of our most common articles of food and nearly every drug store serves large quantities. I dare say h takes ten times as many cows today to supply the ice cream trade as it did a few years ago.

"I do not think that every milk producer can afford to raise his own calves. He has to confine himself at most exclusively to production milities that as a large trade. He as to leave the raising of his cows to some one who has cheaper land. In view of this fact I believe that the raising of dairy calves will be done largely a sections distant from cities. It will be made an industry in these section as it is being made in southern Wis consin. In some of those parts where the dairymen are organized they sell many thousands of dollars' worth d dairy stock annually the grade mostly going to the milk producers living near the cities. I believe that the above facts are a strong argument for more men to go into the business of raising dairy stock."

By-Products Enrich the Farm.

The two important by-products of dairy farming are the manure and the skim-milk. The fertility problem is one which in time the farmers will. realize is important, and then more economical use will be made of the manure pile. Were the fertility value of the manure considered at the pres ent time, dairying would appeal to the farmer as bringing greater returns Let us hope that the neglectful cutoms of the past will soon cease, that the fertility value of the manure will be considered as an indirect profession dairying, and this valuable by product be applied to the soil to make it more productive and more valuable

The other by-product of the dairy is skim-milk. Its value, too, is often up derrated. As feed for a thrifty, young growing, well bred pig or calf, I est mate sweet pure skim-milk word from one cent to two cents per quarted higher value being obtained what it is fed to pure bred registered at mals raised for breeding or show purposes. The one cent per quart, hor ever, is very satisfactory, or even one half cent, and could the farmer a caused to realize fully the value skim-milk, I am certain more farmen would be able to figure a larger prof from dairying. The haphazard, shift less, careless farmer can not be counted as a dairyman, for he never to keep cows good enough to be classed as dairy cows nor will they ever me as dairy cows, nor will they ever po

duce a profit for him.

The dairy farmer in general is intelligent farmer. He appreciate intelligent farmer in general is intelligent farmer. He apprecials the beauties of dairy farming. Illives in a large, roomy, model house. He has built barns and dain stables and made other improvement on his farm. He has his farm fence for hog raising. He owns a creat separator. His children are kept school and educated. He takes far papers and reads them. His farm in the separator is a separator. papers and reads them. His farm the pride of the community. He is the lead of his fellow farmers. He in the high school or college of more agriculture, while his neighbor may be in the A B C class trying single cropping system. single cropping system

with a failure nearly every year.

I wish to impress this one thouse upon your minds, and that is the dairying is the highest type of fair dairying is the highest type of fair type. Successful dairying denotes telligence, thought, study and care work, and for a farmer to be class as a successful 'airyman is a comment to one's ability, business jument and common sense. When farmers come to an appreciation! farmers come to an appreciation the advantages of dairy farming, grand opportunities for it in the then may we truthfully say that and and better era of farming has beg and the great southwest will be with more happy, prosperous, tented and better educated people Roy C. Potts, Oklahoma.



### The "Old Man" and the Maid

ANSAS FARMER"-So you think you've got the best separator made. Can you tell me why?

AID—Yes, indeed. In the first place it is the easiest running sep-

arator made. I know because I have used other makes. Then it is the easiest separator to wash and keep clean. Last but not least, it skims the cream more thoroughly from the milk., than any other separator.

ANSAS FARMER"—My separator is just as good as yours.

ANSAS FARMER"—So is mine.

### Ask the Dairyman's Wife! The wives of farmers and dairymen nowadays are practical women. They are interested in devising ways and means to swell the family bank account. They are constantly on the lookout for labor-saving and expense-reducing machines and methods. They know a good thing when they see it.

Ask any woman who is acquainted with the United States Cream Separator what

The more experience she has had with other separators, the stronger she will endorse the U. S.

Ask her about the skimming ability of the U.S.

She won't hesitate to tell you that it skims the cream more thoroughly from the milk than any other separator. What's more, she will prove it. This is best illustrated by the figures in the bank book. More cream means more butter and more money.

The United States Separator holds the world's record for closest skimming, in 50 consecutive tests, extending over a period of 30 days, with the milk of 10 different breeds of cows. It was awarded the only Grand Prize at Seattle, 1909.

Ask the dairyman's wife if the U. S. is easy running, and she will tell you that it runs easier than any other separator. If you're around at skimming time she will

She will tell you that the U. S. is the easiest separator to wash and keep perfectly clean. The Interlocking bowl of the United States Cream Separator is the only separator bowl where centrifugal force comes into practical use when washing. When the milk has been skimmed, the skimming sections are submerged in a pail of warm water and whirled quickly back and forth. This causes a strong current of water to pass through the channels, flushing all sediment from the bowl; then a thorough scalding and drying keeps the bowl in a spotlessly clean and sanitary condition, with less work than is possible with any other skimming device. Everything is accessible—no dark corners where dirt can collect and not be noticed.

When it is considered that a separator is used twice a day, every day in the year, this saving of work is a big item to every woman.

Write today for catalog No. 91-it clearly explains why the United States Separator is the closest skimming, easiest running separator made, why it is the easiest to wash, and why it will wear longer than common separators. Write now for this book. We will also give you the name of our dealer in your locality.

### Vermont Farm Machine Co., Bellows Falls, Vt.

Practically everybody has accepted general assertion that milk is the st ready vehicle for the transmisn of tuberculosis but now come the erts of the Harvard Medical school state that this is not true but the family cats and dogs are to me. What do you think of that?

ir. B. D. White, who has had rge of manufacturing investigaas in the dairy division of the U.S. partment of Agriculture for several rs and who was one of Dean Ed. H. bster's first lieutenants while he chief of the dairy division, has reed his position to take up work h a private business concern. In onal as well as in state affairs the lic service frequently loses the rices of its best men because prie institutions can afford to pay le for their services.

he advance in the prices of dairy ducts has been frequently com-med of in recent years, but this been done by those who know but ducts are higher than they were the dairy farmer is blamed by the suming public with charges of propoly, "hold up," and exorbiprices for his products with no light of the other side of the ques-The advance in prices of dairy ducts has not kept pace with the ances in cost of feeds and labor this is a fact that the consumer this is a fact that the consumer s not remember. The dairy ner now faces a serious problem producing feedstuffs so economical that he can remain in business. economical help. He must use hinery to produce his crops and sile to store them. silo to store them. His problem ot an easy one.

Kansas to Boost Oleo Tax. ansas is preparing to secure some ave from the manufacture and of oleomargarine. At the prestime the government receives all revenue and the state receives ing, says the Jersey Bulletin. A has been introduced in the Legisre making it unlawful for any

firm or corporation to manufacture, sell or ship oleo or butterine, unless first obtaining license from the State Dairy Commissioner.

The bill was introduced on behalf of the Dairy Commissioner of Kansas, the varied industries of the state and the Dairy Farmers' Association of Kansas. The fees fixed by the bill are high and would probably bring in considerable revenue annually. Under the provisions of the bill the annual fee for a manufacturer would be \$1,000, for a wholesaler \$500, for a retailer \$50, for a hotel \$50 and for a boarding house \$10.

The fees collected under the provisions of the proposed law would create a fund to be known as the dairy commision fund, and would be used by that department to enforce the provisions of that law and others.

The Dairy Farmers' Association passed resolutions urging the enactment of such a law which read in

"Whereas the injury of the reputa-tion of our products necessarily re-duces the price of the same, we do resolve that a law be enacted making it necessary for retail and wholesale merchants and manufacturers, restaurants, hotels or others to offer oleomargarine, butterine or other butter substitutes on their true merit; and be it further resolved, that the ex-pense of enforcing the law be paid from fees collected from the various persons, companies or corporations offering the butter counterfeit to the public."

"Josephine" to Travel.

Missouri Chief Josephine, born on the college farm at Columbia, Missouri, and the world's champion cow for six, eight, ten and eleven months, will be carried on a special train over the Frisco, Wabash and Burlington Railroad lines in Missouri. University authorities will take this means of giving the citizens of Missouri an opportunity of seeing this famous cow.

Many a well-to-do farmer can boast that he has made a financial success in life without keeping books and

merely because of his success, his words carry weight. Yet he should know, if he does not, that this suc-cess was attained in spite of his methods and not because of them.

The market conditions show some curious facts in the cattle pens. Cheap beeves are selling higher than their quality warrants and there is a keen demand for them while good, well fatted steers are only a trifle higher and the demand is rather slow. As things now stand the prospects are that cheap steers, bulls, cows and heifers will be the money makers of the near future. This is all wrong but seems to be the fact. With present prices on corn it looks like the good money would be made during the coming season on the cheap stuff and yet this is a risk. Good cattle are more likely to hold their prices and be more readily saleable.

Theory and Practice of Farming.

Few farmers as yet realize the importance of saving the moisture from melting snows and winter rains that frost holds near the surface, until the warmth of spring permits them to percolate and moisten the subsoil and thus when the surface water has disappeared the soil moisture is permitted to again come to the surface and disappear into air, "into thin air." The March winds and the sun's heat soon evaporate the moisture and "we need rain" is heard from all whom we meet. If we have fall plowing but a little time would be consumed in harrowing over once with a wide sweeping harrow with four horses attached as soon as the surface would crumble. and the disk should be used on all stubble ground before the surface begins to harden and crack. The mois-ture will then not reach the surface and so can not turn into vapor and be Winter wheat when not sown with grasses and clovers will also be benefited by harrowing, and even grass lands when the plants are firm ly established. Most farmers have heard or seen more or less of "dry farming." but they fail to comprehend the ideas embodied and their impor

tance to the future needs of plants. Prosperous years of cropping, caused by frequent and abundant rains, warm sunshine and nature's healing and recouperating powers, are not conducive to much study and deep thinking concerning the growth of things, and the conversation of farmers seldom touches upon the science of agriculture, but is of the more tri of agriculture, but is of the more tri-vial sort, and while the most of them take one or more agricultural papers, take one or more agricultural papers, they seem to take it merely for the sake of being a subscriber, seldom reading it, never studying it or discussing the articles it contains with each other or their families. The years of adversity, especially those caused by drouth, while they are the source of much hardship, privation and often hunger, are of vast importance in advancing agriculture to a tance in advancing agriculture to a higher plane, by causing hard study and deeper thinking and delving into the sciences, of understanding the laws of nature, the relation of cause and

I have heard several young farmers tell with a self satisfaction, implying they are smarter and better financiers as well as cultivators of the soil than those who suffered so much during the 90's, and I pity them in their ignor-ance, for I know that the methods they are following in these years of abundant moisture and good harvests with prices more than double of those years of shortage, would break them in farming for themselves under like conditions. The dairy farmer needs to understand "how crops grow," "how crops feed," and the storing and conservation of moisture, as well as the grain or general farmer and more, he needs to know the laws governing the breeding, rearing and feeding of cows, the art of handling their products and the manufacture of them into edibles of finest flavor and highest quality. The butter dairyman must have a greater knowledge than merely a milk dairyman, for his work demands it.

Every farm should have a dairy department for supplying the family with the best quality of dairy products if none is to be marketed.—F. C. Johnson, Juniata, Neb.

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### A Cheap Way To Insure Healthy Hogs

You believe in insurance—don't you? In fact, you are paying out your good money right now to protect your house, bars and other buildings from loss by fire, beausyou wouldn't feet safe for even a day without such insurance.

Are your logs insured? If not, why not? We don't mean fire insurance, but life insurance—"Merry War" Lye insurance—which will keep your hogs always fat and healthy and insures you getting them to market in prime condition to bring top prices.

How To Prevent And Cure

Worms And Cholera

Here is a simple, sure, safe way to keep your drove in a perfectly healthy condition, render them immune to contagious diseases and increase the weight.

Tablespoonful "Merry War" Lye mixed with slop for ten hogs, or one-half can with barret of swift for larger quantity. Stir well, feed night and morning.

Do this, and no matter how sick your hogs may be, in a few days you will see a marked improvement. "Merry War" Lye cleanes the system, tones the directive organs, makes sick hogs well and insures your pork profits.

Take No Chances.

Take No Chances.

The time to act is NOW, before worms, cholera and other hog troubles get in their work. It will be too late when Mr. Hog slinks off into some corner, gives a feeble grunt, stiffens out his legs and passes away.

That kind of a dead hog will never fatten bank account. What you want is



A Size



prime hams and bacon—not soap fat! So take no chances, but insure your porkers against an authority death by starting them on "Merry War" Lye. And do it today. Don't delay!

On "Merry Don't delay!

The Cost Is A Trifle

The least exp

Merry War" Lye is the least expensive as well as the best protection against log lasses ever discovered.

Its action is sure, and the cost for constantly keeping your drove in prime condition is so small that you will hardly notice it.

A fair trial will convince you beyond all doubt that "Merry War" Lye will do everything that its thousands of Farmer Friends over the country claim for it.

At Your Dealer's

While most up-to-date dealers handle "Merry Wer" Lye, some dealers may offer you some other brand. If so, don't accept it, but explain to the dealer that while there are brands of Lye that are good for certain uses, yet there is only one kind "Merry War" Lye—that is safe and specially prepared for use in preventing and curing sick hogs.

So if your Dealer can't supply you, write us and we will give you the name of one who can; and will also send you a valuable book on "HOW TO GET THE BIGGEST PROFITS FROM HOG RAISING." Send for this book today.

for this book today.

Merry Wor' Lye comes in 10c cans, or 24 for \$2.00. at Geogra' or Druggists. Accept no substitute. E. Myers Lye Co., Bept. 12 St. Louis, Mo.

## LIVE STOCK



Fat in Animals.

At the Western Stock Show, in Denver, it was a fact freely commented upon, that the winners in the fat steer classes on foot stood practically no chance in the carcass classes later, it seemingly being felt by the judge of the carcasses that those animals that were sufficiently fat to win in the ring were too fat to be freely marketable. this suggested to me several

Isn't there, after all, in these excessively fat animals, a lot of suet that the butcher can dispose of only by sending it out with some excessively lean piece of meat?

Does the housewife want a piece of meat surrounded by a two-inch layer of fat? Aren's we at times overdoing the fattening of show animals?

But, to pass on to a field where our feet are on a better trodden path. Aren't the breeding animals in our large shows excessively fat? Certainly we must answer in the affirmative in a great many cases. I have even seen draft stallions in the ring (and some of them won premiums) that were so fat that it is doubtful if they ever would afterward make success ful breeders. We are certainly all aware that if we would make a heifer barren about all we have to do is to get her excessively fat. It must be a well known fact among stockmen that these over fat animals are very susceptible to disease, and that after the disease is contracted they die much more promptly than those in moderate condition. After all, must we not look upon over-fatness as an abnormal condition, and one not to be desired. Of course, I realize that the average show visitor looks for fat only and can see no good in animals not fat; but after all isn't the show educational, and isn't it about time we started in to educate even the visitors that the fat animal is not necessarily the best ani-In other words, as has been so aptly stated by an eminent authority, "Fitness and not fatness," should be our aim.-I. E. Newsom, Colorado.

#### Your Experience Wanted.

I would like to have the experience of older stockmen in breeding two year old draft mares. Is it profitable or not? Will it stunt their growth? Will their colts be as strong and hardy when bred to an old and mature stallion or would it be better to wait longer? What kind of a cross would be obtained from a high grade Hol-stein cow and a full blood Galloway Would this cross remove the horns and white spots from sides and quarters —L. B. Mettlen, Brownell, Kan.

Will our readers please answer, out of their experience, the questions about the mare? Communications along this line are welcome. In regard to the question about the cow, which seems to be intended for the editor, we would say that it all depends. Both the Holstein and Galloway breeds are very old and very prepotent. The result of the cross suggested would depend, very largely, upon the individual animals. cow were in more vigorous health and finer breeding condition than the bull should expect the calf to partake of her characteristics more largely than those of the bull. On the other hand, if the conditions were reversed the bull would be more nearly reproduced in the calf.

We do not see that any good object would be accomplished by such a cross and if it were made the characteristics of both parents must be expected to appear in the calf, though no one could predict as to which would predominate. A spotted calf with horns and a long, curly Galloway coat would not be beyond the possibilities, though we should expect such a calf to be hornless.

It rarely pays to cross a beef and a special purpose dairy breed. The first generation is of neither breed and subsequent ones are mongrels.

Government Horse Breeding,

As before mentioned in these umns, the United States governme has some difficulty in securing horses necessary for remounts in a army although the number require each year is only about 2,500. On face of it this does not seem to be difficult problem as there are certain many horses in the country and Um Sam is rich enough to pay for the The difficulty does not lie in the horses nor the price of them but their quality.

The mounted soldier or the artile man is really effective only as horse is efficient. The cavalry at arm of the service is made up of m and these, to be effective, must a only be of high quality and train in themselves but they must be an Certain types of horses are the

fore needed for the cavalry, and the artilery and the difficulty had securing these. To overcome this ficulty it is now proposed that government shall purchase the resite number of stallions, say 100 had and then enter into a breeding rangement with the farmers of the ent sections of the country when mares of the required type may bred to these stallions and the government. bred to these stallions and the gow ment have an option on the foals price agreed upon.

These breeding operations are w in charge of cavalrymen as gro but under the direction of the Bu of Animal Industry of the Departs of Agriculture.

As the type of horses demanded governmental use is a most useful this plan may result in a great provement of the horses of the try and make it possible to su suitable cavalry and artilery horse large numbers in the event of future war.

The New Stallion Law. The present legislature has best it for consideration and action as ber of amendments to the prestallion registration law and all them seem to be worthy. Am these amendments is one makes the board of regents of state Agricultural College the state agricultural board. registration board and, as this ply adds new duties to a board the already created and this without extra cost, it seems to meet with eral approval. Another amends consists in the insertion of the pure bred, thoroughbred, stand bred, cross bred, grade or mongre as to specify the proper breeding any stallion.

The new law provides for an ination for soundness to be made veterinarians appointed by the law. but no veterinarian shall serve to community in which he resides fee for registration is \$2 with ditional fee of 50 cents a year for newal and 50 cents for transfer

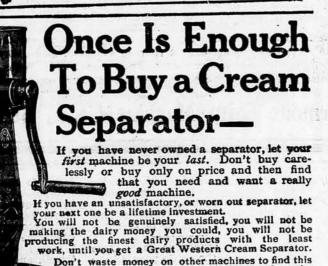
ownership on the books of the books of the books of the books of the board though if stallions are broad though if stallions are broad though if stallions are broad the board the board the some point that has been presently advertised by the board the some stalling the stalling stalling the stalling stalling the stalling stal only \$2. This examination for ness must be made every three runtil the stallion has reached the of 12 years when he becomes en

Of course these prov ply only to stallions which stand public service and the regulate regard to non-resident vetering

Another reduction of expense in stallion owner that will be men this law is that the certificate of this law is that the certificate of this law is that the certificate of the certific tration is not required to be pu in newspaper advertising thou

must appear in all bills, posters as the U. S. Department of ture has must appear ment of the base must ture has withdrawn its recogni all registry associations the bost limit its recognition to accredite sociations and, where possible, one such association in each beautiful the bill product of the bill produc

The bill under consideration great improvement over the relative and is strongly in the interboth the farmer and the stalling



Don't waste money on other machines to find this out. Let others experiment—you be sure from the

start. Decide now to investigate and test The GREAT for Every Man's Needs On Free Trial-5-Year Guarantee

Thousands have written us of their experience with other machines before they got a Great Western. Send for our book and read the letters.

Read our Free Trial Offer—any kind of arrangement you say. Read our guarantee—not for 1 or 2 years, but for 5 years, backed by \$1,000,000.00.

Cow owners who want all the cream, highest quality cream, least work, the biggest profits for the longest term of years, come to the Great Western Separator sooner or later.

It is the only separator with a skimming system that follows nature's laws—the milk sinks, the cream rises. The only separator that will skim cold milk clean, with the only close skimming, easy turning bowl that is kept perfectly clean without effort. Imported ball bearings throughout and more accurate adjustments than used in many watches make the Great Western easier for a boy or girl to turn than for a man to turn any other separator. Low tank and low gears, with high crank, mean greatest convenience, least with attention, velvety cream and longest wear without repairs.

FREE Vanable Information
Learn in a few minutes from our large dairyman's I what thousands have been trying to accomplish for erations. Turn to page 19 of our Art Catalog and get the cream of knowledge regarding milk as ation. Study these facts a little, then study the Great Western Separator. The reat we leave to yadgment. You'll decide to try a Great Western anyway—all at our risk. If it doesn't beat every of on every point we don't expect you to keep it. Write for book now. Ask for Separator Catalog No. Company of the property of the

SMITH MANUFACTURING CO., 158 East Harrison St., Chicago, III.



#### Care of Pigs.

Much complaint is heard of pigs not doing well in winter feeding—loss and unthrifty appearance.

and unthrifty appearance.

The hog is the enly farm animal that wears his summer clothes all winter. He does not grow a heavier coat of hair for winter protection like the horse or cow, and for this reason more care should be given to make him comfortable at all times.

There are three essentials for health, thrift and gain, to be considered in winter management to obtain best results; these are clean food, pure water, and dry comfortable sleeping places.

Clean Food—The food of the pig

Clean Food—The food of the pig should be as clean as for any other farm animal—that is, it should not be mixed or contaminated with any substance that contains no food value. Dirt and filth taken into the stomach along with food impairs digestion and reduces the gain; it also effects the appetite and general health of the pig. Then, too, a considerable part of the food consumed is required to develop energy to separate and expell the indigestable matter.

It is a law of nature that the excre-

It is a law of nature that the excrement of all animals is poisonous to themselves, and while pigs may profitably follow cattle, it is of vital importance that their food be not contaminated with their own excrement. This means that pigs should never be led on the ground in a yard or pen where their own excrement abounds. Feeding on the meadows or pastures, moving about from place to place is a good way in summer, but in winter leanliness, it is necessary to have a leeding floor and it should be cleaned after every feed.

After every feed.

A feeding floor is one of several improvements on the farm that pays big interest on its cost and not only that but pays back its cost as well.

The floor may be made of concrete

The floor may be made of concrete or plank as preferred, but concrete is everlasting and more easily cleaned. We hings should be considered—convenence in feeding and comfort of the bigs while eating their food. The best ocation is on the south side of a corn rib—never on the west or north. The vest, north and east sides should be bight boarded, six feet high to provide fficient wind break, but the south ide should be open so the sun may hine upon the floor. Never build a eeding floor adjoining the hog-houser sleeping quarters; locate it a few ods away from such places so the ligs will have a short distance to valk for their food and there will bettle but cobs to remove from the

Pure Water—Over 40 per cent of fat ig is water and a reduction of the vater supply below the natural reuirements will reduce the gain just a surely as a reduction of food will. Well or spring water is better than vater from ponds or streams. Standag or stagnant water about the barns r lots should not be tolerated. Pigs hould have clean, pure water always thand, day and night; they drink but ttle at a time, yet often, and if it is of always accessible they will not et as much as is required for normal evelopment.

How to have a constant supply of ure water in winter is a problem that ach farmer will have to solve for imself.

Concrete Waterer—We have solved his problem by making a concrete laterer on the barrel and float plan, acept that the pigs drink from concrete boxes about 12 inches square intead of from the barrel in the old lay. The water passes from the barel into the boxes through holes in a alvanized iron plate. The dirt canot get into the barrel, but accumutes in the boxes from which it can saily be removed. A tank heater is get in the barrel to warm the water, if ery cold, as they require, and warming the water has induced them to rink more, besides it is cheaper to farm water with fuel than to warm it be.

tand ation inst

Pigs must not be allowed to sleep manure piles, straw stacks, or in hy place from which they will come teaming or sweating. The sleeping laces must be neither to warm nor to cold, and so arranged that cold finds can not blow in upon the pigs, et there must be good ventilation. Good judgment must be used in beding the pigs. If on the ground, well rotected from cold drafts, but little edding is needed. If on an elevated

Pails and Pails of Milk-

full and foaming over, is what the up-to-date dairyman gets who gives his milch cows small daily doses of Dr. Hess Stock Food in their grain ration. No hard times on his farm no talk about "farming don't pay"—just a full pocket-book and presperity. Dr. Hess Stock Food has reason back of it. It is formulated on scientific principles, by a practical stockman—Dr. Hess (M. D., D. V. S.) and fills a want long recognized by the American dairyman—a suitable digestive tonic for live stock.

DR HESS STOCK FOOD

acts directly on the digestive organs. It gives them "tone" and strength. It causes the largest possible percentage of hay and grain to digest and pass into the blood to be secreted as milk. For the same reason (increased digestion) it hastens fatting in the stall-fed steer, the market hog and the spring lamb. "The poorest ration, thoroughly digested, is better than the best ration poorly digested." This is "The Dr. Hess Idea" of feeding and its success fully warrants the faith which stockmen everywhere place in it. If you want to have fat, sleek and profitable farm stock, use Dr. Hess Stock Food. It relieves minor stock ailments.

100 lbs. \$5.00. Except in Canada and extreme West and South. Smaller quan-25 lb. pail \$1.50. titles at a slight advance. Sold on a written guarantec. Askland, Oblo

Also Manufacturers of Dr. Hess Poulity Pan-a-ce-a and Instant Louse Killer.

Free from the 1st to the 18th of each month—Dr. Hess (M.D., D.V.S.)

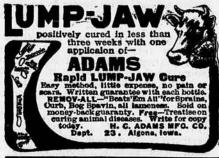
will prescribe for your alling animals. 98-page Veterinary Book
free. Send 26 stamp and mention this paper.

DR. HESS POULTRY PAN-A-CE-A is the foundation of present day ponitry lation—hence the egg yield. It hurries the growing chick. It makes market birds fat faster. It shortens the moulting period and cures roup, cholera, gapes, etc. A penny's worth feeds 30 fowls one day. Sold on a written

lbs. 25c., mail or express, 40c; 5 lbs. 60c; 12 lbs. \$1.25; 25 lb. pall \$2.50.

Except in Canada and extreme West and South. Send 2c for Dr. Hess 48-page Poultry Book, free.

INSTANT LOUSE KILLER KILLS LICE







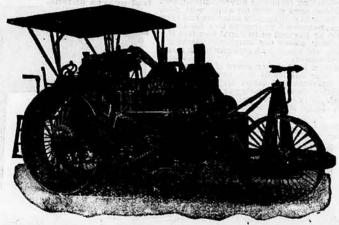
floor, more bedding is required to keep cold from coming up from below; if on a concrete floor, just enough to keep the pigs from coming in contact with the concrete. The bedding should be removed once a week, the sleeping places thoroughly dusted with airslacked lime, and new bedding provided. Anything that can be done to increase the comfort of the pigs will add to the gain and profits in feeding.

Good care of pigs means good breeding, good feeding, constant watchfulness, more labor, closer attention to little details, and finally, more dollars in the pocketbook.—C. C. Pervier, Sheffield, Ill.

The worst season of the year is just before us. Winter is breaking up and the advent of spring is always heralded by extremely changeable weather. Extra care must be given the stock during the next few weeks but especially must the milk cow have attention. Care now means money later.

## THE BUFFALO PITTS GAS TRACTOR

Every Engine we have put out IS A SUCCESS



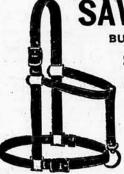
The Three Cylinder Engine has every possible advantage over the two or four cylinder type. Our three cylinder type of engine has a driving power on the crank shaft at all points, because the shaft is set at an angle of 120 degrees giving absolute regular impulses for each two-thirds revolution of the crank shaft, giving us a motor that will recover its speed quickly under heavy load without the assistance of a heavy fly wheel to get it over the center. This shows plainly why our three cylinder motor is better balanced and a much more powerful motor than any two or four cylinder motors. Study the crank shaft on a two or four cylinder machine, either Auto or Gas Tractor and you will see for yourself.

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Special Halter Bargain Pure oak tanned Russet leather; all parts 1½ inches wide, extra heavy stock, 5 or 6 rings. All heavily riveted with coppered tubular rivets, Over 5000 sold to retail dealers in Kansas and Oklahoma in 1910. Guaranteed equal to any \$1.50 halter on the market, \$1.00 Each Satisfaction or your money heavy.

Satisfaction or your money back. Get your neighbors to club together and buy a dozen. We save you money on everything in the harness line. Write for complete catalog of Harness and Saddlery. We send it free. Simply send us your name on a postal card and say "Catalog." It will surely save you money.

INSKEEP & SCHAUBEL, Manhattan, Kan.



### You Can And Now You Can Buy The World's Champion 140-Egg Incubator Complete for Only \$

WHY buy any other incubator at any price? Why not own a World's Champion Belle City? Yet, my price is only \$7.55 and remember, I turnish you a big, full size 140- gg machine at that figure.

Mrs. M. J. Cliffton of Quinlan, Oklahoma, settled the world's championship by winning the Successful Farming Hatching Contest against all other machines, March 29, 1910, by hatching 140 chickens—the full capacity of her machine at 140-gg Belle City Incubator.

Many other machines were in the contest—other machines had high scores—but no

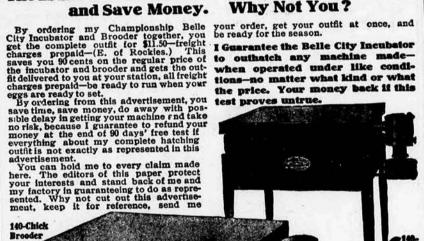
### Complete Hatching Outfit—My \$7.55 Belle City Incubator and \$4.85 Brooder, Ordered Together Only \$11.50—Freight Prepaid East of Rockles

Let me ship you one of these complete outfits, all freight charges prepaid, to your station, on 90 days' free trial. The Belle City Incubator is an old, tried, tested, proven machine. I have been in the incubator business and my machines have been on the market for 28 years. I print thousands of testimonials and photographs of people who are using my machines in my printed matter. My plan is quick sales and a lot of them at a low price.

A brief description of the Championship Belle City Incubator is as follows:

Double walls—dead air space all overcegper tank and boller—hot-water heater—best regulator—deep, roomy nursery—strong egg tray—high legs—double door—and everything that's any good on an incubator—all in the Belle City. "Tycos" thermometer—egg

#### Thousands Order Direct From This Advertisement Why Not You? and Save Money.



Belle City Incubator C. Racine Vis. I ship quick from Buffalo, Kansas City, St. Paul or Racine And I Guarantee to ship e to ship all orders sent from this ad on day received.

The Largest Manufacturer in the World of 140-Egg Incubators —the Best Size Under All Conditions. J. V. ROHAN, Presiden

Racine, Wis. Belle City Incubator Co., Box 18

### WHITE PLYMOUTH ROCKS

(EXCLUSIVELY.)

years I have bred White Rocks, the best of all purpose fowls, and have some fine specimens of the breed. I sell eggs at a reasonable price. \$
per 45, and I prepay expressage to any point in the United States. TOPEKA, KAN. THOMAS OWEN, STATION B.

### Why Incubator Chicks Die

The book entitled, "The History of White Diarrhoea or Why Incubator Chicks Die," will be sent absolutely free by return mail to any one sending us the names of 5 to 8 of their friends that use incuba tors. This book can save you \$100 this summer, it describes white Diorrhoea, or b cwel trouble, the cause, and tells of a cure. Book absolutely free for the names.

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Written by 200 of the most successful Feeders, Farmers and Dalrymen in the World. CP Every farmer in America should read this book, and asions as our supply of these last we will mail one of free to each person asking for t. It gives the actual experience of these farmers and in their one words. Our Fatories are located at Anderson, Ind., bee Moines, lows, and Kanssa City, Ee Write NOW "Silo Profits" Missouri.

INDIANA SILO COMPANY
311 Union Building, Anderson, Indiana

Don't let disease get a start of you. Fight it in the early stages and you will find it much easier than to wait till it gets hold of all your flock.

Cold rains are prevalent in early spring and often cause sickness among a flock of fowls. To avoid the dampness, the floors should be heavily covered with straw or leaves.

The first eggs laid in the spring are often infertile, and it is inadvisable to set them. The cause is often attributed to the fact that the hens are too fat and inactive. After awhile the eggs will be all right.

Plenty of glass on the south side of the poultry house will tend to pro-mote the healthfulness of the flock, for sunshine is death to any disease that may be lurking in any damp poultry house. Give the fowls plenty of sunshine, fresh air and exercise and they won't need any doctoring.

Every one engaged in raising poul-try for profit should endeavor to take advantage of every source of profit. The value of poultry feathers is an important reason for dry-picking the birds. Dry-picked body feathers bring from 17 to 19 cents per pound, while scalded feathers are worth less than a cent a pound. The demand for feathers adds to the poultryman's profits.

One poultry raiser told another that she was very foolish to set pullets' eggs as they wouldn't hatch. The latter asked the writer about it. We answered that there was no truth in the statement, for pullets' eggs will hatch as well as hens' eggs, all other things being equal. But it is not advisable to restrict the settings to pullets' eggo exclusively, but use hens' eggs as well. The progeny from pullets is never so large or hardy as from mature hens, therefore the eggs from the latter are preferable for setting pur-

Some people have a notion that the sex of the coming chick can be deter-mined by the shape of the egg, the sharp pointed eggs producing cockerels and the roundish ones pullets. But there is nothing to it, as we have frequently stated. An expert says, that to the student of embryology this is at once apparent. For the first three days the chicken is sexual, from then to about the seventh day, it is distinctly hermaphodite, and contains within itself the elements of both sexes. After this stage it diverges in one direction, one set of organs developing and the other diminishing, according to whether the germ is going to produce a male or a female; so that if the germ had a living consciousness, it would not know at the sixth day which sex it would ulti-mately be.

Chick feed can be bought from dealers in poultry supplies in almost any town, but the quality of the different feeds vary a great deal; especially is this so in the quality of the beef scraps that are used in it, some being perfectly worthless. A good chick feed can be bought at \$3 per hundred pounds, but a much better one can be made by purchasing the articles separately and mixing them oneself. The following is a good formula: 30 pounds cracked wheat, 10 pounds Kafir corn, 20 pounds cracked corn, 10 pounds pinhead oatmeal, 10 pounds alfalfa meal, 10 pounds beef scraps, 5 pounds cracked rice, 5 pounds millet seed. Grit and charcoal should be placed before the chicks in addition to this.

#### Sprouted Oats for Poultry.

A bulletin recently issued by the Maine Experiment Station deals with some of the poultry work carried out at that place during the last year, especially on feeding sprouted oats to poultry. Sprouted oats is what has been largely advertised as poultry feed at 15 cents per bushel, in order

to sell the book describing the method of producing them. But the bulleting says: "It should be clearly under stood that the purpose for which green sprouted oats are fed is their tonic and stimulative influence on the digestive system. They are not to for the food value of the oats then selves. If one wishes to feed and they can be most economically a not sprouted. The point of sprouting is to furnish fresh, succulent great food when such feed cannot be & tained outdoors.

"There is a unanimity of opinion among experienced poultrymen the poultry do best upon some form green or succulent food during the winter months. The functions of suc food is probably largely in the natur of a digestive stimulant rather tha as an addition to the actual food on stituents of the ration. Former mangolds were used as a source winter succulent food at this station They did not, however, prove entired satisfactory. The chief difficulty with the mangolds was found in getting them properly grown so that the would keep fresh and plump dum the winter. If mangolds are not in ened off and harvested in the propression of the winter, but will shrivel and we come unfit to use as a succeient following the winter. In the experience of the station it much better not to feed any green succulent food at all than to feel withered, shrivelled mangolds with were harvested before they were the oughly ripe. "On account of this difficulty with

mangolds as a source of winter gen food, the station began, in 1908, so experiments with green sprouted at as a source of such food. Gre sprouted oats have been very wide exploited in recent years as a gree food for poultry. There are some called 'poultry systems' on the mar which really consist of very little to experiments with this material at station were not satisfactory. It found difficult to get oats to make sufficiently quick growth. Experient bere has indicated that in order make a satisfactory green food oats must be grown very quickly. cider to get quick growth, it is no sary to have three things: warmth; second, plenty of moisture and, third, sunlight. After a number of experiments to get the right of bination of these three factors of plans to be described was fish worked out, and has proved very statements. isfactory.

"There is in connection with station poultry plant a hot-water be ing system which has a 3-inch of pipe. This out-go pipe as it leaves heater, passes along the rear wall a small room which was forlad used as a grain storage room. To vide a place in which to sprout of the back part of this room was put tioned off as a closet, enclosing 3-inch hot-water pipe. The parties wall which forms the front of closet consists of glass doors, from a regular storm window so hinged so as to swing open as and dinary door does. These glass do face towards the south side of building which has a window direction. the day the closet gets plenty of the dimensions of this sprout closet are as follows: Length, a feet 6 inches height, 6 feet.

"The place of shelves in this distance by large, square green in the state made of 7' flats made of % inch stuff. These have the following dimension breadth, 2 feet 5 inches (inside depth, 2 inches (inside) depth, 2 inches (inside).
"The length of the closet is sufficient to the closet is sufficient."

just to accommodate three these these flats, which slide on suppos that they can be moved in or of turned around to suit the converte of the conv of the operator, and the needs of sprouting grain. These flats

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inches apart (i. e., vertically). There can be accommodated four rows of flats, three in a row, in the closet at one time. A number of holes are bored in the bottom of each one of the flats in order to drain off the surfame moisture which comes with the wetting of the oats.

"The advantage of the closet arrangement described is that it enables one to control the three necessary factors of heat, moisture and light, quite completely. In this closet it is easily possible to maintain a temperature which does not run at any time below of degrees. The closet being perfect-y tight it is possible to saturate the ir with moisture quite easily and virually convert the whole space into a reat moist chamber.

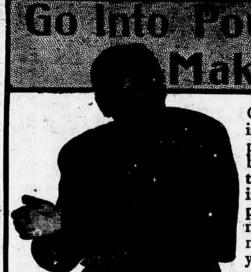
"With this arrangement one is able o grow oats from four to six inches o grow oats from four to six inches high in one week's time. The only lifficulty with which one has to contend is the matter of mold. There is lways a tendency for the oats to mold in the sprouting process. The only way in which it has been found with the control this most income. horoughly cleaning the flats after ach time when they are used. After flat has been emptied it is thoroughy scrubbed with a 50 per cent solu-ion of disinfectant (that is, equal arts of commercial disinfectant and vater). This scrubbing is very thor-ughly done, and sufficient disinfectnt is used to soak the flat thorough-With this precaution, and if the ats are further made to grow rapid-t, the mold does not give any trouble

"The actual method of sprouting he oats is as follows: Clean and ound oats are soaked in water over-ight in a pail. The next morning ats are filled to the depth of about wo inches, and put into the sprouting loset. At the beginning freshly lled flats are placed near the top of e closet so as to get the maximum mount of heat, and in that way get he sprout started at once. During be first few days, until the sprouts are become from a half to threenarters of an inch long, the oats are coroughly stirred and raked over at east two or three times during the ay. This stirring insures an even stribution of moisture throughout le mass of oats in the flat. After the prouts become sufficiently long so hat the oats form a matted mass it is ot desirable to stir them, or to distribute them in any way. Stirring at lat time will break off and insure the prouts and the green portion above e mass will not grow so well. The atter of prime importance in grow-g the oats successfully has been und to be sufficient moisture. The ndency at first is to use too little oisture. The oats should be kept ite wet. The aim here is to keep ndensed moisture standing on the ass doors which form the front of e closet at all times. In order to do is it is found necessary to wet the its three times a day. This is done ith an ordinary green house sprinkg can, with very little expenditure time or labor. As the oats grow e flats are moved to different posi-ons in the closet. The taller the een material gets the nearer the ts are moved towards the floor, beuse the growing grain then needs s heat. This procedure leaves the sirable places in the closet for the ain just beginning to sprout where the temperature is needed.

The oats are fed when they are om 4 to 6 inches in height. They e fed at the rate of a piece of the atted oats and attached green alks about 6 to 8 inches square for ch 100 birds per day. In feeding, ese 6 to 8 inch square pieces are oken into smaller pieces and scatoken into smaller pieces and scatted over the pen, so as to ensure at all the birds shall have an opporaity to get some. Fed at this rate, a material has never caused any wel trouble over the trouble of the shall be trouble over the trouble ov Wel trouble among the birds."

### Paint at 85c a Gallon.

A strictly reliable, and fully guarteed Red Barn paint is what you a buy, for 85c a gallon, freight pred, from the Sunflower Paint and raish Co., Fort Scott, Kan. This npany is not in the paint trust, and its entire output direct to farmat factory prices. Write the com-y for full particulars. It is worth r white, if you need paint in the



Chicken and egg farming is a business of wonderful possibilities. Many of the best and strongest men in the country are engaging in it because of the opportunity it affords to make money. Does money making interest you? Let us see.

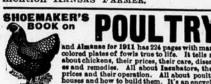
I Want 10,000 or More Men and Women

to Write Me. I want to send you my book and talk to you about Poultry as a business. I will undertake to show you that it is the livest calling that keen, active business men, women, boys and girls can engage in. You have heard about "The Queen Incubator Way." I am going to demonstrate to you that the Queen Incubator way makes poultry pay—makes it a real business. And I'll not stop at that, my friends. When I have shown you the way I will make you the most remarkable offer ever you had of starting up in the Queen Incubator way on the make good plan. It will cost you only a penny to send a postal for my book, my story and my plan. Will you spend the penny and send the postal? Address

WICKSTRUM, Queen Incubator Man, Box 28, Lincoln, Nebraska



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BATEMAN M'F'G CO. Box 71-9 GRENLOCH, N. J.

Stock carried at Kansas City, Denver, Oklahoma City, Peoria, Ill., and St. Louis, Mr.

### Big Incubator Value



Successful Incubators hav always been superior to al others. This year they are better than ever before an

Successful Incubators baye 80 years exp rien e back f them. Every fault of other ediminat New special features developed this year. Ventilati n. eaing, regulation—all perfect. Don't experiment, gr. BUCDESSEUI.—the sure, certain mone, amaker. Ges our price and book NOW. If you want kiels on "Troper Care and Feeding of Chicks, Duc. and Turkeys," said its. Catalogue is FREE. Write postal.

Des Moines Incubator Co., 83 Second St., Des Moines, In.

### SMITK'S LAYING STRAIN OF Plymouth

Line bred, trap-nested, pedigreed for egg production. Every chick is pedigreed, every hen has a record kept of the number of eggs she lays; nothing but first class layers used in breeding pens. They will improve any flock of pure Flymouth Rocks. The farmer wants eggs, so don't fall to send for my mating list and see what I have.

CHAS. E. SMITH

BOX F, BAYNEVILLE, KANSAS,

WHAT A CAPON REAALY IS.

And What it Means to the Progressive farmer sent you in a PERSONAL letter for your request, Caponize your cockerels. It has the same effect on chickens as castrating hogs, cattle, horses, etc. Can you afford to sell your small, ordinary chickens for inferior prices when capons bring at least 25c per pound. This is the truth and I am not handing you a GET RICH QUICK SCHEME OB GRAFT such as you may have often seen. Mine is a clean, honest business proposition. Write me now.

JOHN L. DICKERSON, Knoxville, Iowa.

FINE POULTRY AND EGGS FOR HATCHING.

Barred, Buff and White Plymouth Rocks; W. Wyandottes; S. C. W. and B. Leghorns; Buff and White Orpingtons; R. C. and S. C. R. I. Reds; Light Brahmas. Eggs \$2 to \$5 per setting; \$5 to \$10 per hundred. Write us your wants. We can please you. TOPEKA POULTRY CO. Topeka, Kan.

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### 125-Egg WISCONSIN Incubator & Brooder



If ordered together we send both machines for \$10.00—freight paid east of Rockies. Hot water, double walls, dead air space between. Top has three walls. Double glass doors, copper tanks and boilers; self-regulating. Nursery underneath egg-tray. Both Incubator and Brooder shipped complete, with thermometer, lamps, egg-testers—all ready to use when you receive them. All machines sold on a 30 days' trial, if not satisfactory at end of 30 days you can return them, and money will be refunded. Incubators finished in natural wood showing exactly the high grade lumber we use. If you will compare our machines with others offered at anywhere near our price, we will feel sure of your order. Don't buy until you do this—you'll save money. It pays to investigate the "Wisconsin" before you buy. Read the letters below—they are actual proof from users, showing the success they are having with our machines. This is the most convincing evidence you could get. Send for the free catalog today wisconsin INCUBATOR GO., Box 139, Racine, Wisconsin

Wisconsin INCUBATOR GO., Box 139, Racine, Wisconsin

Thos. J. Golller, Egg.

All machines

Thos. J. Collier, Mgr.

consin Incubator Co., Racine, Wis. Crow Agency, Mont. antiomen:—I thought I would drop you a line to let you know I came out with your machine. It has just hatched the second Gentlemen:—I thought I would have a hard time to get it from me for time and snybody would have a hard time to get it from me for time and snybody would have a hard time to get it from me for three times what it cost. From the first hatch I get 121 chicks from 123 fortile eggs and the second time I put a small tray from 101 fertile eggs I get 144 fine front of the egg tray and from 101 fertile eggs I get 144 fine chicks. I am more than pleased with your machine and I am going to get three more before spring. My neighbors have all kinds of the get three more before spring. My neighbors have all kinds of the get three more before spring. My neighbors have all kinds of the get three more before spring. My neighbors have all kinds of the get three more before spring. My neighbors have all kinds of the get three more before spring. My neighbors have all kinds of the get three more before spring. My neighbors have all kinds of the get three more before spring. My neighbors have all kinds of the get three more before spring the get three more before spring. My neighbors have all kinds of the get three more before spring the get three more before spring the get three more before spring three more before

machines here and I hold the record with my machine.

Wisconsin Incubator Co., Racine, Wis.

Wisconsin Incubator Co., Racine, Wis.

Blanchester, Ohio Gentlemen:—I am well pleased with the way your incubator works. I think the chick nursery underneath the erg tray is all right as you do not have to take the chicks out until they are all hatched and they come downstairs like the children in the morning. I set the incubator three times and get 246 chicks.

Wisconsin Incubator Co., Racine, Wis.

Gentlemen:—It pleases us greatly to be able to say that your incubator is a jewel. We have seen several incubators in operation and none have equalled the Wisconsin. Through six hatches we nover averaged less than 90 per cent. We also had excellent results with duck and turkey eggs. We were also pleased to find the material and construction exactly as represented.

H. S. REDDICK

A JESSUP, R. No. 3.

Affactal and construction exactly as a part of the first and firs



This illustration shows the double walls, dead air space construction of our machines.

No other manufacturer can use better material in the construction of his machines than we are using in our machines. Incubator made of California Redwood, Lamps galvanized iron. O. K. burners. Taylor thermometers.

#### **MAKE THESE COMPARISONS BEFORE YOU BUY**

They will help you to avoid making a mistake in deciding which machine to buy.

1st Be sure and compare the lumber. Our incu-bators are of selected California Redwood. 2nd The Wisconsin has double walls with dead air space, a decided advantage. Some have no dead air space.

3rd The egg chamber in the Wisconsin is fully 10 inches deep. Some, to cheapen cost of making, are 8 inches deep.

ting, are 8 inches deep.

4th This makes the nursery less than 2 inches and too shallow for little chicks. In the Wisconsin the nursery is 3 inches deep.

5th In the Wisconsin there is plenty room between the egg tray and the door for the chicks to get in the nursery. In some incubators you have to open the door in order to put the chicks in the nursery.

6th The Wisconsin has large double glass doors through which the thermometer can be easily read. Some have a small single glass, making it necessary to open the door to read thermometer.

If you will make these comparisons, which there

If you will make these comparisons—weigh them well, I know you will order my machines and be better pleased, for these are cold facts which actual comparisons will prove.

### Open Letter From Sam Thompson

EDITOR KANSAS FARMER: Last year, through your paper, I addressed two letters to you and to your readers. I had something to say then, that I thought was of vital in-terest to all readers of Kansas Farmer. I am pretty sure all of them raise chickens or other poultry. Also I am pretty sure they are all interested in everything that tends towards more profit from that part of their efforts, as well as the saving of time, effort and worry.

I found that your readers were interested in my open letters last year, for I had letters from a very large number of them. Hundreds of Kan-SAS FARMER readers have written to thank me for so directly calling their attention to my Fairfield incubators and brooders. These good folks found told them the plain truth, when I said Fairfield incubators and brooders were the machines that would give better results than any others.



SAM THOMPSON, PRESIDENT, NEBRASKA INCUBATOR CO.

All who bought machines of me last year, are very enthusiastic boosters this year.

In going over my letter files, I find I have more of interest to tell poultry, raisers than any one else ever told before. I have studied the incu-bator and brooder question for years.

I have read all the various catalogs and printed matter (including letters) sent out by other incubator man-ufacturers in this country. And I have read thousands of letters from users of various kinds of incubators and brooders.

I have read of, and seen good results from other incubators and brooders, but I am positive, no incubators can show a record of work last year equal to the Fairfield.

If any other incubator ever made such a record, the manufacturer either was too modest to publish it, or overlooked, as I think, the most important thing folks are wanting to know.

I don't think any incubator maker

has failed to publish the best things he had to show in the way of records made by his machines.

Fairfield incubators made such a remarkable hatching record last year, that, this year, I absolutely guarantee

90 per cent hatches.

That doesn't say the Fairfield will not make better hatches-for it will. I put the average results at 90 per cent. It is what I know the machine

will do for any one who uses it.
Not only did the Fairfield make such a remarkably good record last, but it is doing it again this year. This winter, so far, through the cold weather, the reports from Fairfield users, show the same high results and uniform good satisfaction in owning.

This winter's work, so far, shows that the extra strong guarantee I am making this year, is not any stronger than the work and results of Fair-

fields warrant.

Here is my guarantee:
(I didn't hire any lawyer to write this guarantee. I wrote it myself. There are no loop holes or crawling-out places. If you don't like my Fairfield incubator for any reason what-ever, I don't care whether it is looks or results, you get your money back. That's my guarantee. When I signed

it I dipped my pen in the mucilage bottle to make it stick.) I guarantee the Fairfield incubator

to hatch ninety per cent of all fertile eggs if operated according to instruc-tions. I guarantee it to be the World's Best Hatcher—best in looks, results

and ease of operation.

I guarantee the heating system of the Fairfield incubator to be the best possible for uniformly high percentage hatching and guarantee that the Fairfield heating system is found only in the Fairfield incubators. The thermostat heat regulator is guaranteed to prevent the temperature varying more than one degree during the en-

tire hatching period.
In short, I absolutely and unconditionally guarantee the Fairfield incu-bator to be the best possible hatcher from any point of view. I agree to refund your money if it is not, or if after purchase you are dissatisfied with this machine for any reason

Now, if you will ask your banker to look in his Bradstreet's or Dunn's commercial reports, he will find that my company is financially responsible for every obligation I undertake.

I consider my guarantee, as a legal contract, and I know my financial standing is such any one can recover from me, on this contract, if my incubator don't "deliver the goods" according to contract.

I may not have the biggest factory in the world, but I know I have the biggest result producing incubator-

and for a low price too.

After all, I am selling incubators, not factories. By the time my business is as old as some others, who talk so much about "big factory" now, the chances are that my factory will be the biggest, just as my incubators and brooders are the biggest and most satisfactory result producers now.
Of course I could go on, by the

hour, writing you what I can say for Fairfields. As my enthusiasm comes from that of my good friends, my customers, who have paid their hard money for my machines, in preference to others, I am going to put in this letter, some things written by some of my customers.

After all, anything only succeeds in proportion to the human need it serves, and the satisfactory manner in

which it serves that need.

That is why I think the evidence of the high value of Fairfield incubators and brooders, as handed in and sent in by those who use them, is entitled to the most serious consideration by every one who is raising poultry without incubators and brooders, or with inferior kinds of such machines.

Just read this string of letters, originals of which I have on file among thousands of others:

Fairfield "Fills the Bill." "We received your incubator and have used it and find it O. K. It is certainly a dandy and fills the bill. No one who expects to raise chick-ens should do without it. We can recommend your incubator to the public without hesitancy.-Clement L. Wilson, Mayor, Tribune, Kan., Aug. 13,

Mr. Wilson is now in the Kansas Legislature in the House of Representatives.

"Send It Right Away," Orders Mr. Brewster.

"We purchased an incubator of you a year ago this spring, 150 egg, and was so well pleased would like another. As it is getting late, if you will send it right away, we would be ever so much obliged. As we have no catalog and don't know the prices, if you will send us a 150 egg incuba at once, we will send your money inside of 30 days. We read about the two hatches free, but know that they are all right, so that isn't necessary. There are 5 FAIRFIELDS in this neighborhood, and are all well pleased with them.—J. P. Brewster, Court-land, Kan., April 9, 1910. None Equals Fairfield Lamp.

"In regard to your incubator, must say that it CANNOT be excelled. Have had two good hatches from first incubator purchased, and second incu-bator has not varied hardly over one degree during the eight days it has

Cannot speak highly enough of the FAIRFIELD HEATING SYSTEM, and in regard to the lamp, have never seen as good a lamp on any incubator

will order another FAIRFIELD incubator right after harvest.—Carl Brewer, McCracken, Kan., June 7, 1910." as the FAIRFIELD Incubator Lamp.

Finer Than She Thought.

"I like your incubator fine. Had 109 chicks from the first setting, and 116 from the second. Will say it is finer than I had thought it could be. I am the only one that has an incubator around here that can leave it all day without looking after it.—Effie M. Hoobler, Ransom, Kan., July 18, 1910."

Is Proud of Fairfield.

"Nebraska Incubator Co., Fairfield.

"Dear Sirs: Well, as I have had my incubator now for the past five months, I guess it is almost time you

were hearing from me.
"I am so proud of my incubator that I would not do without it for twice

what it cost. "I had never run one of any kind until this summer, and it hatched so well I didn't get to set it as many times as I wanted to, as I didn't have

any place to put the little chicks. "First hatch got 135 little chicks, second time got 162, and third time 166, which made 463 at the three settings—all strong and healthy little fel-

lows.
"Almost everybody says they think the incubator is the finest to hatch

Well, I guess this letter is long enough, so I will close by saying I hope you the best of success with your incubators, as I know they can't be beat.—Respectfully, Mrs. Bertha Banning, Moline, Kan., June 13, 1910." Nearly All Hatch.

"We are all well pleased with the FATRFIELD, and expect to order another one next spring. Out of 127 eggs I hatcher 119 chicks.—Mrs. Gertrude Quinby, Pierceville, Kan., Aug.

Fairfield Best Hatcher.

"The FAIRFIELD made the best "The FAIRFIELD made the best hatches of any I had, and I am well pleased.—O. Barrett, Diamond Springs, Kan., August 31, 1910."

I Then Want Fairfield.

"My first hatch was 175; second 165; third 165. The machine is all right. Three or four around here will send for machines in the spring.

send for machines in the spring.— Mrs. C. H. Beiswanger, Udall, Kan., August 10, 1910."

"I Think it is a Fine Machine."
"I received the incubator all right. Set it on July 4th, and hatched a good hatch. I put 180 eggs in and did not test at all, and hatched 145 nice, healthy chicks. I think it is a fine machine.—Mrs. Lula Ara Smith, Densmore, Kan., August 12, 1910."

The above letters are, of course, from only a few of my many Kansas customers. They are fairly represen-tative of all the rest I have, whether from Kansas, or any of the other states in this country. And I have customers and friends in every one of the United States, besides Canada,

Mexico and other foreign countries.

Now, I didn't just happen to think I should make a 90 per cent hatch guarantee for my incubator this year. It wasn't just done to make a big talk, to sell machines.

The reason for that guarantee, against which I understand some other manufacturers are kicking, is better founded, than on any mere whim or notion. It is just this. After all the hatch reports sent in last year had been figured up, and averaged, the average was above 90 per cent.

My guarantee is based on what

Fairfields really did last year in the hands of average poultry raisers. Thousands of these had never seen an incubator before buying a Fairfield. Others who used them had some experience with other kinds. But even these old experienced hands didn't Fairfields.

It simply was in the machines. And that is the part I am specially proud of.

It is a lot of satisfaction to me, to have the best incubator, just as it will be to you, to have the best hatcher in your neighborhood, as you will have, if you buy a Fairfield.

I might write how I came to produce such marvelous incubators and brooders. What would be the use?

The important thing is, what are my machines now, while I am offering them for you to buy? I know how the hair in my head has gone gray in developing such high and satisfactory result producing incubators and brood-

It was not all done in a day nor in a

year. Nor was there any magic or accident in the development. It has been hard work all the way down the line. Results count.

Today you and every poultry raiser can profit from my work. You run no risk, in undertaking it. I don't want a single order from any one, except on the basis, that Sam Thompson will deliver a bigger and a better doilar's worth of incubator and brooder for 100 cents, than any one else can de-

That, I realize, is a pretty big contract to undertake. But the risk is all mine. I've got to do it before I can get a single cent's worth of profit.

I know that a Fairfield hatching outfit, for the price (less than \$10, freight prepaid to any station in Kansas and adjoining states), give to poultry raisers, more chickens to put on the roosts in the fall, than any other hatching outfit ever built. And this, too, without any need for worry as to how the hatches are going to come out. Neither is there any hard work, or slavish attention necessary to get the real, live, growable chick. ens

After all it is the chickens that get to market that bring in the money. Right hatching has more to do with successful poultry raising than many persons seem, at first, to think. Your old hand in the business knows this thoroughly, just as I know it. When the price of a hatching outfit is the same, or less than others, but results vastly better with one kind than with others, you can see that the question of knowing about the fall crop of chickens is the most important thing to consider.

My profit on a machine is so small that I couldn't stay in the business, if Fairfields would not spread their own sales, when they once get started in a neighborhood. That's the way my business has succeeded. And! take it that, that is only additional evidence that Fairfields are better than others, because there is plenty of competition in this incubator busi-

Only the best ones can get ahead, and that, I am glad to acknowledge, is what my business is doing-going ahead—on a sound basis—quick sales, small profits, and delivering the goods every time.

I am not afraid to ship Fairfields on trial. I never have been. I've done so on every order I ever got, whether it was asked or not. I expect to do it on every order I get, whether now of in 20 years from now.

Why? I simply have the goods to deliver and I know, when poultry raisers generally, know my machines as wel as I know them, they will say, "San Thompson has the incubators and brooders to buy. They do the work better and more satisfactory in ever

This may sound like bragging, but the facts warrant every statement! make. I don't need business bad enough to lie to get it. Neither do want to wait for a generation fol folks to know what I have.

Of course, I know that the average

man or woman who doesn't know me personally, will be slow to believe my statements. I don't expect any one it do that. I am only asking for the chance, to prove my goods; to prove what I say.

I am willing to take the word of American poultry raisers, when the pronounce a verdict on the work d the Fairfield, after trying it. If and follows: one says my machines don't fully make good—or that I have over state a single thing, I'll be just as anxious to send back the purchase price of si outfit, as I was in the first place to get the order and ship it.

I only ask the chance, to be full heard, and submit all my proof. do that, I want to hear from everi poultry raiser who reads this. I wall to send my new catalog, and my complete news

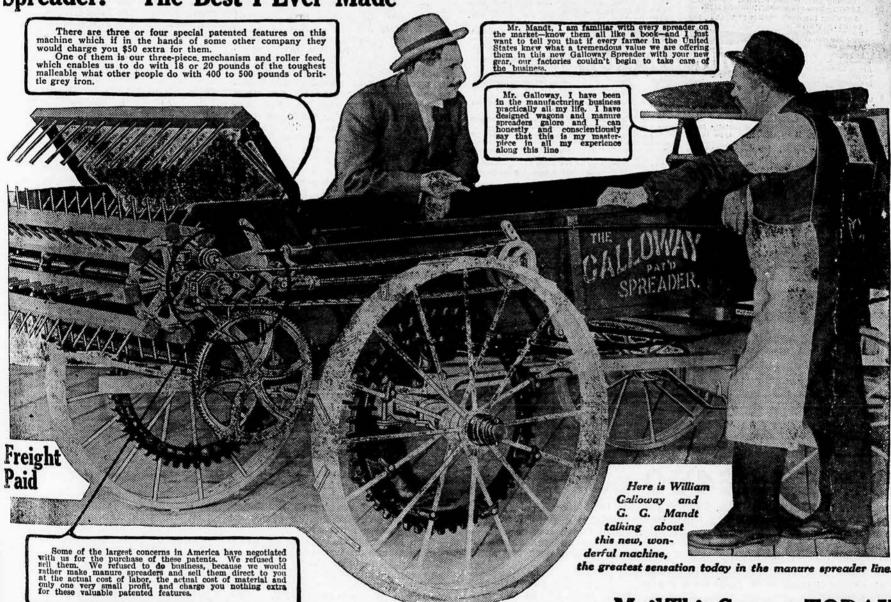
plete proof. If what I have, will save a poulity raiser money; will help earn more, will save work and worry; will help make life better worth the living, or the don't think I are worth the living or the l don't think I am unreasonable, or in duly ostentatious, in asking for a chance from every one, at least a show what I have

mo

show what I have.

So I ask again, that every poultr raiser, who has not yet done so write me today for my book, produced the source of the so prices, freigh paid, and complete production of every statement I have made. It full address is Sam Thompson, Main St. Fairfield Main St., Fairfield, Neb.

Our Announcement Last Week of Galloway's New Manure Spreader with Mandt's New Gear Has Created a Great Stir in Implement Circles. Inquiries and Orders Coming in By Thousands. Write Today-Now-and Get the Latest News and My New Proposition on the Very Latest and Best Manure Spreader. The Best I Ever Made



### Everybody Knows Galloway - Everybody Knows Mandt-Everybody Knows This is the Greatest Combination for Quality and Value Ever Accomplished in the Making of Manure Spreaders

Y FARMER FRIENDS were quick to see what this combination means. All know that Galloway keeps years ahead on spreader improvements—and all know of the great wagon-builder, firm. He has been here with me for a year. Now I don't need to tell you that Mandt knows how to build a wagon-gear right. And he says this new gear for my new spreader sear right. And he says this new gear for my new spreader is his greatest piece of work. I know it is, and so will you when you get the facts.

#### Write For Introductory Offer

Get your name to me now quick, while I'm making my extra special price offer on this extra special spreader. I'm soing to put my first lot of these out at a price that won't let you even hesitate This new 70-bush

new 70-bushel spreader of mine is worth \$50.00 more than any other spreader built on account of its 11 important patented features. But we sell it at a price 20 per cent to 80 per cent less than others ask for spreaders

per cent to su per cent less than others ask for spreaders not half so good.

We don't hold you up for a big price just because we have valuable patents, as others would if they had them. Just get my proposition and see. No matter what style of spreader you need or when you think you'd need one send me the coupon or a postal now

#### Five Other Styles and Sizes From \$39.50 Up

My Galloway-Mandt spreader is the top-notch of all, My Galloway-Mandt spreader is the top-notch of all, but it's only one of the most improved and most complete line in the country. Take your choice of size, style and price. You can't go wrong if it's a Galloway. Let us send you the offer that is creating such a stir anyway—and my Big Spreader Book showing all the styles too. Mail the coupon or postal to me—now—personally. Wm. Galloway, President,

### The Wm. Galloway Co. Galloway Station Waterloo, Iowa, U.S. A.

### Mail This Coupon TODAY

It's a quick, easy job for Uncle Sam to hand you my Free Book on manure spreaders, after I get your name and address. Just fill out coupon and send it in by next carrier, or write me a postal if more convenient. I want your name now while the Introductory Price is on. Right now is the best time.

### Special Galloway-Mandt Manure Spreader Offer

The William Galloway Co. 389 Galloway Station, Waterloo, Iowa

You may send me free, postpaid, your Manure Spreader Book and all particulars and special price offer on your new Galloway Spreader with Mandt's new gear.

Address.....

R. F. D..... ....... ... State... ....

Dear Sir:—The Galloway Spreader is all could be wished for and more. I am a much of a cartoonist or I might send out one of a neighbor of mine who has a last spreader. He will take off his hat wear when he breaks down, and that the time, He says I can spread as the manure as he can, and it costs him

twice the price of mine every two years for repairs R. J. BAIN, Pisek, N. D. Gontlemen:—The Galloway Spreader, I have found, is a light-running and light-built machine. Although it is lightly built it is very strong. Some standard makes, I have noticed, are very heavy and appear quite complicated, while on the other hand

yours is just the opposite. Last winter 1 spread manure in twelve or eighteen inches of snow, while my neighbors spread by hand. E. W. SAMMELSON.

Salem, S. D.
Gentlemen:—I am well pleased with my manure spreader. It works fine and does it so easily. One of my neighbors has the

Clover Leaf spreader and it is too hard work for three horses, so he had to put four horses on it; then it pulls as hard for them as it does with mine for two horses, and does not do any better work than my Galloway No. 5. I assure you when I am in need of any machinery you will hear from me. S. E. TRENKS, Geddes, S. D.

### Two Cars In One, \$1600

And still another new and useful feature added to the Great Western 40. By a simple "twist of the wrist" this massive, luxurious pleasure car becomes a convenient, powerful truck car.

Simply remove four bolts, take off the tonneau, slip in the wagon-box and return the bolts. Very simple—

With this great car you will find many uses—save many dollars—many hours— nuch labor.

Hauling truck to market—supplies home, arting dirt, stones, stumps, cattle and ultry—becomes an easy, pleasant task. And when the day's work is over, and your

And when the day's work is over, and your a make its cost of him family want a spin, it requires only five minutes to return the tonneau.

It enables you to accomplish twice as much as before, and your earning capacity is doubly jucreased.

Is doubly increased.

This is the same car that has become famous through its marvelous feats in hill-climbs and endurance contests against cars of over double its price.

If there is a car on earth especially ideal for the farmer, it is this new type Great Western 40.

When you start out you know you'll get there

nd back—sate, sound, sure.

You need not fear break-downs, or mysterious troubles. For few cars are so reliable—so mearly trouble—proof.

It has proven conclusively that it stands alone today as the greatest value ever offered anywhere mear its price—\$1600.

mits a full 40. Thus you always have an ample supply of power in reserve for emergency.

You have all the power you need, when you need it. All the speed you want, when you want it. Sixty miles an hour if you choose.

With its cost of up-keep you'll be surprised. For it is no greater than that of the lightest cars. 31 miles per gallon of gasoline is common for the Great Western 40. · Its lightness, special springs, steady motor, ease of operation, absence of vibration, help make its cost of maintenance far below the

In beauty and comfore it has no serious rivals. Look at the car! Honestly, did you ever see its oqual anywhere near its price!

Note the large, roomy seats, the extra leg room, the lia in. wheel base, the dashing, racy, graceful lines of this car gives it an aristocratic, dignified appearance.

If you buy this Great Western 40 you will have If you buy this Great Western 40 you will have many splendid things to look forward to.

We are able to sell this car—worth double its price—at \$1500 by breaking all traditions: basing price on cost of manufacture, plus selling cost, plus a fair profit.

We leave it to any of the hundreds of farmers who own the Great Western 40 that it is the car for your purpose.

Write us today for beautiful booklet, complete specifications, name of nearest dealer, and further reasons why the Great Western 40 is a paying in-vestment for you.



PORT ARTHUR ROUTE

THE ROUTE TO HOMES

### \$200 to \$400 per Acre

A PRODUCT TO SELL EVERY MONTH IN THE YEAR

No extreme heat in summer; no malaria; no mosquitoes, and the winters are mild and not long in the beautiful and delightful Ozark Region
Intensive farming is the watchword of the nour and all land values ar e increasing. Titles are good; investments are safe and profits are sure.

FRUIT, TRUCK AND POULTRY FARMS Along the Kansas City Southern Railway in Southwest Missouri and Along the Kansas City Southern Railway in Southwest Missouri and Western Arkansas there are many idle acres of the most fertile and productive land in the United States. It is being divided into 5, 10 and 20 acre farms, or larger, and sold on easy payments. It is exceptionally well adapted to fruit, truck and poultry raising. Strawberries, apples and poultry are the big money makers and many men who have located on these lands have made as high as \$450 per acre. \$200 to \$400 per acre is common. You can do the same and if you are industrious you can occupy your time at all seasons and have a product to sell every month in the year. You can at all seasons and have a product to sell every month in the year. You can buy these lands at from \$20 to \$25 per acre. Drop me a line and I will suggest what I believe to be the best locations at reasonable prices. Write me

THE TO HOMES

today.

S. G. WARNER, GENERAL PASSENGER AGENT. KANSAS CITY SOUTHERN RY., Thayer Building, Kansas City, Missouri.

PORT ARTHUR ROUTE

### THE PERCHERON SOCIETY OF

Has just taken over all reads and business of Percheron Registry Contains of Columbus, Ohio. 215 breeders took membership in P. S. of A. during Dec. and January alone. 137 more new members added through recent acquirement named above. There is now but one recognized Society in the United States recording Percherons. For information address WAYNE DINSMORE, Secretary, Union Stock Yards, Chicago, Ill.



Kills Prairie Dogs, and Gophers of all kinds. Endorsed by State Experimental Stations. 1,400 tablets propaid for \$1.25. Warranted. Ratioide Tablets \$5 cents. Ask druggist of send direct, Booklet free.

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nd introductory price.

CLIPPER WINDMILL & PUMP CO.,
Topeka, Kansas.

## The GRANGE

Origin of the Grange.

The Order of the Patrons of Husbandry originated in the mind of O. H. Kelley, a man of New England Lirth, who went to Minnesota in his early manhood and became a farmer in that section of the country.

in that section of the country.

In 1864 he was appointed a clerk in the Department of Agriculture at Washington. Two years later, in January, 1866, Mr. Kelley was commissioned by Hon. Isaac Newton, Commissioner of Agriculture, to visit the southern states, lately in hostility to the government, for the purpose of obtaining statistical and other information in regard to the condition of the south, and report the same to the Department at Washington.

It was while traveling in the south in obedience to these instructions that the thought of a secret society of agriculturists, for the protection and advancement of their interests, and as an element to restore kindly feelings among the people, first occurred

to Mr. Kelley.

The idea of giving women full membership in the proposed order originated with Miss Carrie A. Hall, of Boston, Mass., a niece of Mr. Kelley, to whom he had imparted his views to whom he had imparted his views of the new association after his return from the south. In the full formation of the order, six other men were directly associated with Mr. Kelley, namely: William Saunders, of the Department of Agriculture, who next to Mr. Kelley, did most in originating the order, and Rev. A. B. inating the order, and Rev. A. B. Grosh of the same department; William M. Ireland, of the Postoffice Department; Rev. John Trimble and J. R. Thompson, of the Treasury Department; and F. M. McDowell, a pomologist, of Wayne, N. Y., all of whom, with the constitution were been upon a with one exception, were born upon a

These seven men were the founders of the order, and for nearly two years they labored with great energy, and with a faith and zeal amounting almost to inspiration, until with the assistance of friends who became interested in the plan they completed a well devised scheme of organization, based upon a ritual of four degrees for men and four for women, which is unsurpassed in the English language for originality of thought, purity of sen-timent and beauty of diction. Having formed a constitution to

govern the order to which this ritual was adapted, these men met on the 4th day of December, 1867, and con-stituted themselves the National Grange of the Patrons of Husbandry, with William Saunders as master, J. R. Thompson, lecturer, William M. Ireland, treasurer and O. H. Kelley, secretary. The remaining offices for obvious reasons were left vacant.

The little brown building in which the organization was effected was at that time the office of Mr. Saunders, and stood embowered with the trees in the gardens of the Agricultural Department on the corner of Four and a Half street and Missouri avenue. Later the late Colonel Aiken of South Carolina, and other interested members of the order made vigorous efforts to have the government preserve this historic building, but they were unsuccessful in their efforts.

The first subordinate grange was organized in Washington, D. C., the 8th day of January, 1868, as a school of instruction, with William M. Ire-

The first dispensation for a Grange Harris 4th day of April, 1868, but the first regular subordinate grange to which a charter was issued was organized at Fredonia, N. Y., the 16th day of April,

The first State Grange, that of Minnesota, was organized the 22d day of February, 1869. The new order made slow progress up to 1872, only 257 granges having been organized in the entire country. During the year 1872, 1,105 were organized, and the order had an existence in twenty-two states.

The first meeting of the National Grange, as a delegate body, was held at Georgetown, D. C., the 8th day of January, 1873, with six of the founders of the order and seventeen delegates present, representing eleven states; six of the delegates were masters of State Granges, and the re-

mainder were deputies in the order. In addition to these, four women were present, viz: Miss Carrie A. Hall, Mrs. O. H. Kelley, Mrs. D. W. Adams, and Mrs. J. C. Abbott. The total number of granges organized previous to this meeting was 1,362. Nearly 30,000 charters have been issued to the present time, and the organization is now increasing in membership and influence faster than at any time in its his-

Subjects for Grange Discussion. The lecturer of the Pennsylvania State Grange makes some valuable suggestions to lecturers and suggests some important subjects for discussion. Many matters of great impor-tance are deemed little when not understood. Others seem big because more important matters are not brought in contrast with them.

Farm side: How I fed my last load of steers, and how I will change my methods in the future. Successful hog feeding. The sheep business and hog feeding. The sneep business and how to improve it. Testing seed corn; the how and why of it. Preparing small grain for seed. Feeding the dairy cow. Care of farm machinery. How I keep tab on my dairy cows. Winter care for the idle farm horse. Resolved, that under our conditions it is more profitable to market our grain and roughage through ket our grain and roughage through the dairy cow than to sell it on the market. Resolved, that it is more profitable to market the grain and roughage of the farm through baby beeves and yearlings than by means of two or three year olds. What con-stitutes an ideal milk room for a modern dairy farm of ordinary size problem of worn-out pasture—how its feeding value may be restored.

Business side: Farm accounts. The markets and future indications. Freight rates and how to govern them. Farming as a business. The cost of producing an acre of corn, oats, wheat and clover. The cost of raising a calf for the dairy. The farm operation which made me the most money last year.

The social side: Our rural schools and how they might be improved. Help on the farm and in the home. The increase of tenancy and what it means. Large vs. small farms. Resolved, that children are what the inheritance and training of their particular and the small an ents make them. What is the world's greatest educational institution Resolved, that the home has a greater influence over the child than the school. Increased cost of living and how regulated.

The legislative side: The tariff as it affects the farmer. The parcel post and what the Grange should do to secure it. Some needed road leg-The new school code and islation. The new school code and how it affects our children. Popular government. The initiative and referendum and recall and what they mean and how would they effect legislation if enacted. What change should be made in our tax laws? Why should United States senators be elected by popular vote?

Much of the success of your work

Much of the success of your work this year will depend largely upon the thoroughness with which you prepare your program. Do not slight it in any particular, but give it your best thought and most earnest effort.

We especially want you to keep in touch with what is being done in the legislature during the months and to keep the members posted as to what is being done in the interest of the farm and home.

We would suggest that some one be appointed to help you keep in touch with all legislation, both state and national, and that a few minutes be given to this work each meeting night. Let the committee be called a committee on current events and encourage them carefully to select such matters as will be of especial in terest to the membership and give it in a condensed form.

The ancient Egyptian gave honor to the memory of the dead cat. Modern Kansas ought to do the same for the

Sometime a man is like dough, he woman not only needs him but he is hard to get off her hands.

Raising Larger Litters. (Continued from page 4:) w's udder becomes inflamed and ked. When the pigs suche the in becomes so intense that in described the intense that in descri

ration she jumps up, kills and eats

The profits for a whole year can thrown away in a few hours by a thrown away in a few hours by a the neglect at farrowing time. An vestigation in one of the chief hog oducing sections showed that the oducing from anathird to rmers were losing from one-third to rmers were losing from one-third to ro-thirds of the pigs that were born ive. Last year a man with four-en sows raised to weaning time by fifteen pigs while his neighbor. to used less feed but spent every ar with his sows during farrowing ne, raised an average of over eight gs to a litter from a large herd of

At first, after the pigs are born, ed the sow lightly, for if she is fed give more milk than the pigs ould have it will give them the purs and many will die; often the

ole litter is lost in this way.
Watch the sow and pigs and slowly rease her food as fast as the pigs take more milk. At the end of weeks after farrowing she should given all the milk producing feeds will eat. Pasture, skim milk, kage, shorts, wheat, gluten feed i the hay from mifalfa, clover, peas peanuts are among the best milk ducing feeds.

orn and barley in moderate quanes are good, but must be fed with ge quantities of the milk yielding An excess of either of these ins is certain to bring on thumps, of the most fatal of the diseases young pigs. Like all growing aniis, the pigs must have hours of exise every day.

The cheapest way to put gains on ing pigs is through the sow. She a strong digestion and can turn rse grains and pasture into easily

igs will begin to nibble at feed n they are about three weeks old. this age they should be given a le milk in a trough separate fro mother. After they get to drink-the milk freely, add a little ked whole grain barley, wheat, s, milo. or corn. Do not give re than they will eat up chean ne time, and clean the trough well re each feeding.

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igs should not be weaned until are at least eight weeks old, and he sow is not to have a second litor if there is time enough in case is, it is better to let the pigs kle until they are ten or twelve ks old. Farmers often get in a ry and wean pigs when six weeks but unless there is an abundant ply of milk, and especially good e is given, the pigs are likely to ome stunted, sometimes se se ely that they never recover.

hen the time comes to wear the and alfalfa hay. She will dry up lout injuring her udder. When is giving a large supply of milk all the pigs are taken away at the pigs are take

hen first weaned, feed the pigs three to five times a day. While their mother they took their is at least every two hours, and sudden a change is detrimental. t they get to growing vigorously, down to two meals a day.

hen first weaned, the pigs should e either skim milk or tankage unthey get over the change from I mother's milk. Every hog raiser ald plan if possible to have a good by of skim milk for this time. If the change do this toplage will take annot do this, tankage will take lace, making it about one-fifth the weight of grain fed.

vo litters a year mean two diviperiods for the hog raiser each instead of one. Properly fed handled, a mature sow will keep etter breeding condition and will her owner more years of profitservice if she has two litters a than if she has only one. To do she must be fed while pregnant supply of bone, blood and musmaking feeds, in order that the lopment of the unborn pigs will weaken her by taking these males from is from her own body.

me men are so "ornery" that they cheat at solitaire.

Home Mixing Free To Boys is sweeping the country

like a tornado. Our book - "Home Mixing of Fertilizers"-will show you why. You can get only by home mixing the exact proportion of Phosphoric

Acid, Nitrogen and

that your land and crops need.

You pay less per unit of available plant food when you buy the stuff and min your own fertilizer. You don't buy filter or pay freight on it in your own homedon't bry filer or pay freight on it in your one mixed brand. You save from \$5 to \$7 per ton.

If your dealer doesn't keep Potash salts, we can supply you—any amount from 200 fbs. (one bag) up.

Write us for prices. Send forces PRRE book, Mixing," Learn why Potash Pays,
GERMAN KALI WORLE, Inc.
BALTIMORE: Continental Bidg. OHIOAGO: Monadu.
NEW GERMAG: Whitney Statud Bank B

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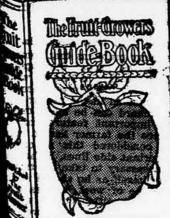
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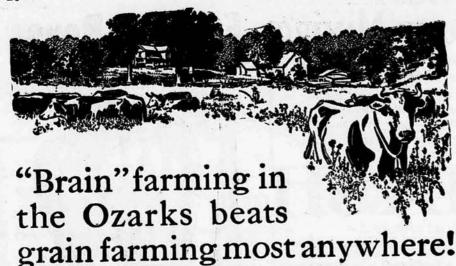
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Take the matter of markets, for instance. The Ozarks are located right at the doors of St. Louis, Kansas City and Memphis, which pay the highest prices for every farm product. The farthest point in the Ozarks is within a few hours ride of one or the other of these cities. Think what this means in the marketing of truck, dairy products, etc. A big city druggist was asked recently where he got such fresh eggs. He replied "Oh, a farmer down in the Ozarks ships them in every day and I pay him 35c per dozen, the year tound."

A single dairy cow can easily bring \$12 profit each month, with proper management. Right now the dairies of these cities are clamoring for more milk and butter and offering top notch prices to get them. St. Louis alone consumes 19,000,000 lbs. of butter and untold quantites of milk, each year.

But your net profits are greater in the Ozarks not only because you get more but because you spend less—in the cost of land, cost of production, cost of marketing and cost of your own living. To begin with, you can buy good land today in the Ozarks at \$10 to \$25 per acre. A fully equipped farm there will cost you less



The College of Agriculture of the University of Missouri, at Columbia, under Dean F. B. Mumford, maintains a special department, to analyze soils. This department will—free of charge—gladly analyze the soil of any place in the Ozarks that you may choose, and advise you as to just what crops it will grow best.

than an unimproved place elsewhere.

The cost of production in every line

is very low. Hogs are fattened for

2½c to 3c per lb., and in quick time, on the rich clover, alfalfa, cowpeas, etc., that grow so well in the Ozarks.

Sheep pay a profit of \$12 per head and take nothing but the wild grasses

and noxious weeds. Cows graze

practically all year and need little or

no shelter. You are not compelled

to devote most of your land during

the summer to grow feed for your

water, good drainage, a mild climate

and splendid pasturage, the loss of stock

from sickness is practically nothing.

Troublesome diseases that are com-

mon in other sections seldom spring

up in the Ozarks, because of these

With a mild climate, you are not

cooped up for half the year, living on

what you made the other half-the

plow can be used most every month.

Taken separately, none of these ad-

vantage may seem to count for much,

but, summed up, they total the

difference between little profit and big

profit-between over work and right

stock to eat during the winter.

Then, with the finest of clean, pure

healthful conditions.

I feel so sure that a smaller investment in the Ozarks will yield you a greater net profit, with less work, than you can get where you now are, that I want you to read our splendid, illustrated free books of common-sense facts. The Frisco hasn't an acre to sell, but is interested in letting farmers know what splendid advantages the

know what splendid advantages the Ozark country offers. I am sure you will find the facts I can give you more than worth while. Please write today.

A. HILTON, General Passenger Agent, Frisco Lines, 501 Frisco Building, St. Louis

HORTICULTURE

J. L. Pelham, who graduated from the Agricultural College in 1907 and who is now superintendent of the Underwood orchards at Hutchinson, has been lecturing to the college classes of late. Mr. Pelham is one of the most successful users of orchard heaters in Kansas and his company will buy an equipment sufficient to protect 300 acres of orchard this spring.

KANSAS FARMER

#### Spraying Orchards.

The writer has made a study of the apple situation as it exists in this locality, having handled apples in a wholesale way for the past 16 years. In this time I have bought apples from almost every apple producing section, the most of which I have visited personally. This has given me an opportunity to study conditons and care given the apple industry in the different localities.

If am firmly of the opinion that orchards in this territory can be made as profitable as in any section if the proper care and attention is given them. The most serious drawback now existing is the destructive insects, which have constantly grown worse from the fact that the matter has been neglected until almost every orchard in this territory is infected, and the only way it can be remedied is by concerted measures by every one owning orchards.

It is easy enough to destroy the insects, which has been demonstrated by scientific research of the government and interested industries, which information is at the hand of every one by the asking.

It has become so well recognized by handlers of apples that the first thing a buyer of commercial orchards will say when inquiring about orchards is, "Has the orchard been sprayed?" and if so, "How many times?" and if it is found they have not been sprayed, the chances are he will not care to even visit the orchards, as he is taught by experience that it only pays to buy sprayed fruit. C. E. Walker, Kansas City, Mo.

#### Helping with New Orchards.

Of the many problems that confront the farmer, the proper development of the farm orchard is one to which he attaches very little importance and yet, when handled in the proper manner, the orchard can be made one of the most important features of the farm. Since the farmer has in many instances considered this as one of the unimportant side lines, he has not found it necessary to take the trouble to inform himself as he should in this particular line of work, and as a result of this condition, there are at present comparatively feye well developed farm orchards in Kansas. In the early development of the

state the pioneers from New England and central states brought with them many varieties of apples and other fruits with which they were familiar in that section of the country from which they emigrated. Unfortunately, many of these sorts, though excellent in the country where they originated, were entirely unsuited for the cli-matic conditions of Kansas. Many varieties of apples, such as Baldwin, Northern Spy, Greenings, Yellow Bell Flower, etc., have been brought into this state by the old settlers and it would seem that these individuals have placed a higher value on fruit trees than the present generation. At any rate, at the present time the average farmer knows comparatively little more about varieties best suited for his conditions than the settler of the state did fifty years ago; with the result that many prospective planters continue to ask for many of these old varieties that are obsolete so far as our conditions are concerned.

Time has shown that we can not successfully grow many of the choisest varieties of plums. Many of those sorts that are best in quality will not stand the winters or, in the event they escape this injury, they are so sub-

ject to the attacks of fungus diseases that it is rare that a crop is obtained. It is therefore unprofitable to try planting any but the hardiest sorts, and those that are closely allied, generally speaking, to the wild sorts that are native to this state. Yet many farmers continue to buy such varieties as Greengage and some of the prunes and others of this type. Nearly every one who came from that section of the country where sweet cherries were successfully grown in sist on trying some of this type; though the trees generally grow all right, they, fail to bear more than a few scattering fruits, just about enough to supply the birds and preserve a good supply of insects from one year's end to the other.

Believing that quite a large per cent of the trees that are being planted at the present time are sorts that are unsuited to the locality, the Kansa Agricultural College is taking steps to get in touch, where possible, with prospective planters with a view of conferring with them along this line. If the prospective planter will submit to the extension department of the college his lists of varieties of the various fruits that he expects to plant the department will take the necessary steps to inform him as to whit is best suited for his condition. The enable him to make plain his exact situation a blank has been printed that we will be glad to send to approspective planter. I will be glad to visit old orchards and advise as to care and treatment.—C. V. Holsings, Manhattan, Kan.

### The Cottonwood, and How to Season the Lumber.

The cottonwood attains the largest size of any forest tree within the state. It is a native tree and is found growing very generally in the easten part of the state and along the water courses throughout the western part of the state. The large size and the clear straight trunk that the cotton wood develops make it a very design able saw log. The value of the cotton wood for lumber production has been greatly underestimated. The one stious objection to cottonwood has ways been that it warps badly. The objectionable feature can easily be overcome by properly handling the lumber. As soon as sawn it should be piled straight and evenly with an asspace of two inches between each is and a strip of better between each is and a strip of better between each and a strip of batten between each strip of boards. The battends should be placed not more than four is apart and the battens of each is about the battens of each is a strip of the battens. should be placed directly over each other so that the weight will be by a perpendicular line of bearing. This point is very important as should be rigidly observed. Another point that is of considerable admage is that lumber of different and mensions should be piled in senare. mensions should be piled in separation piles. This allows uniform spacing each pile and the spacing is important tant as an unobstructed circulation air is necessary if the lumber is dry uniformly.

dry uniformly.

When the pile of lumber is pleted the top boards should weighted down with slabs or other heavy material and a sloping made of the slabs will turn much the rain water that would others.

when seasoned the lumber is belt than pine for many purposes. To cottonwood is a very perishable to when used in exposure, but for index uses it is an excellent lumber. But barn building it will fill every barn building it will fill every and cornice. For houses it can used for joists, studding and sheet ing.

The difference between a dude a dog lies in the fact that one lots of clothes and the other similarity.

Many a man who tries to the prophet is really a dead loss.

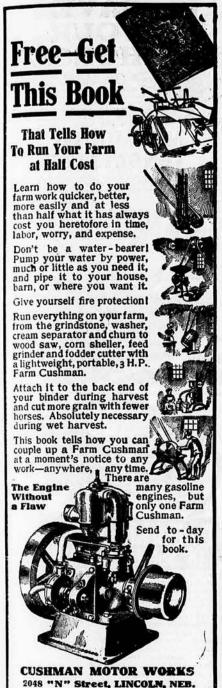
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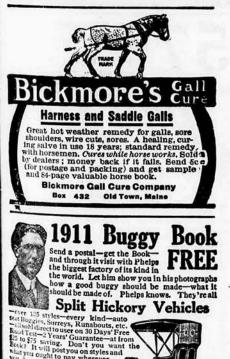
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B. C. Phelps, President,
THE ORIO CARRIAGE
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It will not be very long before the old familiar sight of windrows of burning corn stalks will be seen again. Fortunately, the farmers who burn the corn stalks are very much fewer in numbers than formerly, and there should be none of them. Corn stalks that have stood out in the weather for months do not have a great deal of fertilizing material in them but they do have material of which humus is made. Most of our soils that have been cultivated a long time do not lack the elements of fertility so much as they lack humus. Humus has a double value in that it puts the soil in a good mechanical condition and at the same time serves to free the mineral matter from the soil of which the plant food is comsoil of which the plant food is composed. It is not wise to plow under corn stalks just before planting a crop, as the old stalks do not have time to decay. Still, this is better than burning them up. Stalk fields should be plowed as early as possible and the ground may become comand the ground may become compacted before seed time comes.

Dam the Draws and Plant Trees.

"Plant trees and dam the draws and play thunder," said an old settler, who chanced to drop into our office the other day. "Haven't I lived here thirty years?" he said. "I was here when you came in 1886. Lots of you fellows thought you could grow trees and corn. Didn't you fail?" Then he gave me that knowing look and continued: "I tell you this country is good for nothing except to raise cat-tle, coyotes and jack rabbits, and the sooner the people find it out the better. Your 'dam the draws' isn't worth a cent. Of course, there are Uncle Johnny Ross, John Williamson, Otto Cornelssen and a few other fellows who have succeeded in growing fine groves, but I'll bet every tree cost twice what it is worth. I say to you, Hopper, you are fooling your time away trying to get people to plant trees, or dam the draws, either, for that matter. Now, say, to be honest, how much did those two or three little groves of yours cost you? I've been here too long." At that he lit his pipe and away he went.

Well now I know that fellow. He is

a pretty nice sort of a chap, and there are a lot of fellows just like him. You go to his house and it is a very good house though not a tree in sight. He has a wire corral, a few quarters of speculators' land fenced, less than a hundred head of cattle, so he can afford to cuss the country and loaf. Too many of that kind of folks.

The new comers nearly all tried to raise trees and nearly all failed because they tried it in their own way. They built their houses up on a hill, plowed a hedge row around them and planted it to trees. Possibly they gave each tree a full bucketful of water during the season. Of course they died. Why not? In many instances a hole was dug in the prairie and a tree planted. Might as well throw the money in the fire and save your

This buffalo grass will sap the ground of moisture more than any crop I can name. It is like the Osage hedge in the east; it will sap the ground for a rod and nothing will grow save grass. We must know something about planting trees. The ground must be in good tillable condition, the weeds must be kept out, where the water will not run off in a and the trees ought to be planted minute after a rain. The ground around them must be cultivated so it will drink in the water. New settlers who come here from a country where everything is in cultivation and who think they can plant a tree here the same as where they come from simply fail. They can not do

A low, level place where it is close to the underflow, say five to ten feet to water, if plowed and put into a good state of cultivation, will grow trees as well as any place in the United States. If all of such places were put in trees there would be plenty of groves in this country, but you can not do this in a pasture and let the stock run loose. It will pay, and pay big, if all such places were fenced and trees planted. In a few years the fences can be removed, and

the stock will not hurt the trees.
But you say "What is the great value of trees?" Let it be said now for investigation, that no man ever fixed in a country or ever even passed brough a country where groves were pientiful, who did not find a good









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country that would raise any kind of crors adapted to the climate of that country. If any one will point out such a country, the writer will inves-tisate it. The question is, do the trees make the country or the country make the trees? "Watch and work" is our thought .- J. C. Hopper, Ness City, Kar.

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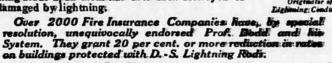
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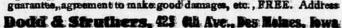


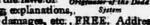
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#### About Sweet Clover.

I believe that every real agricultural paper that is published is worth vastly more to its readers than it costs. I do not, however, believe that everything that gets into its columns is gospel

Not long since I saw sweet clover recommended as a honey plant, a weed exterminator and a farm crop. The first two are all right, but why a farm crop? I have it by accident and use it when it is in its best condition for soiling cows. At that time it is 90 per cent water, with but little nutriment in the fiber, and this soon changes to about the same per cent of wood with still less value in the stem.

If I were to persuade any one to sow sweet clover on land that would grow other crops and if I ever saw him afterwards with a gun in his hand I would hide.

The hand that writes these words began sowing red clover seed 68 years ago and has been used for that purpose nearly every year, if not every one, since that time. With this experience before me I believe red clover to be one of the best crops the average rough and tumble farmer can grow. As a forage plant it has no superior except alfalfa, and this is too uncertain a crop in this locality to be depended upon. Try alfalfa where you think it will grow. It is the best crop of all.— J. P. Kerr, Ottawa, Kan. The experience of Mr. Kerr is cer-

tainly most valuable and what he says is exactly true, but still there is a use ful place for sweet clover in Kansas agriculture. On peer lend where-other crops will not grow the sweet clover has a most valuable place: It will grow on washed out or worn out land and enrich it. The plant itself has no great value except for bees but it has an enormous value as a collector of nitrogen for the enrichment of poor soils.

Of all the clover family the sweet clover seems to be the only one that develops the right kind of bacteria for the innoculation of alfalfa fields and if the last crop is plowed under it supplies a considerable amount of fertility, a large quantity of humus and puts the ground in excellent shape for alfalfa or other crops.

Although we know of one farmer who sowed a large field of sweet clover on his farm we should not recommend it for any purpose except to grow on and put into condition very poer land in preparation for other

#### Birds and Agriculture.

The agriculturist should study the forces which affect the useful plants and animals which he raises. Important among these are such biological forces as insect life and bird life. Some facts concerning the relation of birds to crops of various kinds are prevalent among those who have not made any special study of economic ornithology, but many of them are based on insufficient data.

To know the truth concerning the relations of our various species of birds to the work of agriculturists, much data is needed, and this can be handled only by the trained scientist who is a specialist in the field and who can devote considerable time to bird study and has funds necessary for his investigations.

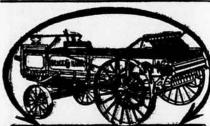
Through eating insects, birds do their best work for farmers. To keep up the high vitality of such active creatures as birds much food is necessary. Young, growing birds often eat more than their own weight of food in a day. Since insects consti-tute a large fraction of the food of most of our birds and these are chiefly injurious forms, such birds help to a great extent in lessening the numbers of insect pests that infest crops of all kinds. Some birds that are especially useful as insect destroyers are: Swallows, nighthawks, meadowlarks, woodpeckers, kingbirds "bee martins, wrens, cuckoos or "rain crows," rose breasted grosbeaks, screech owls, sparrow hawks, chickadees, flycatchers, warblers, vireos, shrikes, kinglets, bluebirds, titmice. Robins in most localities, in all probability, pay for the cherries they eat, through destroying insects. Blackbirds, likewise, make up, to a large extent, at least, for their depredations on corn by eating grub worms and other harmful insects. The court of science has not yet condemned the crow, which does much good to man by destroying insects and possibly



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Engines, for 1911, we first got many of the well known



engines of a similar character and my experts went all the way through them, testing every part, every piece of material, every practical working feature so we would be sure our engines would come up to every ment these other engines might have.

Then another set of my experts figured the cost of materials and of selling on my direct-from-factory small profit plan and then they fixed the price based on \$5,000 output.

The 5-H.P. Engine that our experts consider next to ours in quality sells to the consumer for \$225.00. We do know, however, and the price that our output is called the bondle.

ever, and de guarantee that our engine is easier to handle; easier to put on different kinds of work, easier to start, and smoother running. My account experts found that we could sell this engine at a fair profit direct to the user on 30 to 363 days free trial with a liberal guarantee for \$119.50. This means a saving of \$105.50 in cash to every customer over the price they would pay for the other engine. And I give you a better engine to boot.

Galloway Engines \$3950

man who invented prunes

Wm. Galleway Company 385 Galloway Station

to eat with no greater effort.

might have produced something good

Heirlooms are handed down from father to son but sometimes they are too long in the legs.



th to compensate for its injuriabits.

ds also do considerable for us in ds also do considerable for us in way of destroying weed seeds. that are especially useful in way are: Sparrows, chiefly our especies, juncoes or "snow" goldfinches, horned larks, ning doves, bobwhites, prairie and meadowlarks. The mouse-oyers among our birds are the soyls. shrikes. and crows.

s, owls, shrikes, and crows. ere are only a few kinds of birds is part of the country that are injurious. Among these are two es of hawks, the sharp-shinned coper's hawks, the English sparand in some localities the yel-ellied sapsucker. The cowbird igh beneficial as far as its food are concerned is injurious on nt of its destroying other more l birds by laying its eggs in nests. A competent cruitholo-lays that each cowbird is reared e expense of from two to five birds, each more valuable than owbird.

ce birds are so useful to the The should protect them on his and do what he can to encour-heir presence. No bird should led unless it is very certain that doing damage or that it belongs injurious species. The unwise m of shooting hawks, owls, and n of shooting nawks, owis, and large birds that come within should be stopped. Enemies of should be kept away as far as ble. Probably the worst one of about most premises is the cat. Birds should also be profirm of vines, bushes, and hollow an early be maintained. Birds can easily be maintained. Birds be fed grain and mest, especin the winter. Nests and nestlaces shorid not be intorfered Bathing and drinking places itract many birds.—T. J. Hawk-

inson-Collins Sale Postponed. Owing to severe weather and nost impassable roads Messrs. llins & Hanson were obliged postpone their bred sow sale vertised for Feb. 20. Hower much of the offering was of the breeding and the postponeit will or at least should not erfere materially with the le. The offering is in reality e of the best of the season d will be appreciated by the mers and breeders who see m. The offering is composed large, heavy boned, smooth lands; just the kind that goes the market early and are us-the market toppers. Besides 150 Recorder sows there will sold about 30 grade sows avy in pig. Also 7 very choice lled Angus bulls. Write at the for early of this call. ce for catalog of this sale.

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Sweet Clover.

is considerable discussion the value of sweet clover. Genit is considered a troublesome and yet its list of friends is ng rapidly. Where alfalfa or will grow it is worthless in arison but on washed out land, av hanks ay banks or sand hills where ng else will grow sweet clover not only thrive but will convert aste land into a rich tract for r upon its roots are the only n kinds which will inoculate for alfalfa except that which upon alfalfa itself.

you have any alkali spots, thin clay points, sandy places or overland where the soil is washed sow sweet clover and let it It is a money maker. It Pays to Investigate Modern Methods and Machinery

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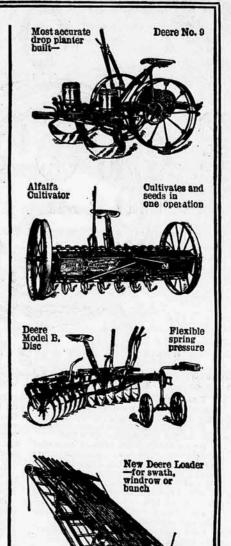
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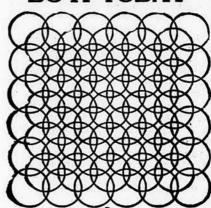
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If you had your choice of only three farm implements upon which farm implements upon which you must depend for a living would they not be a plow, a cultivator and a ma-nure spreader? If you begin with these other things will be added unto

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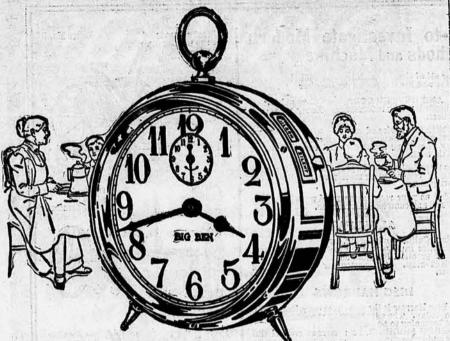
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My bell really isn't an "alarm" either, for it doesn't startle you.

I've a mellow, deep-toned, cheerful wolce. It arguses you promptly but

I've a mellow, deep-toned, cheerful voice. It arouses you promptly but gradually with a "Good morning, it's breakfast-time" sort of sound. I don't "go off" like a flock of frightened quail. I never scared anybody out of bed in my life.

I ring at intervals for fifteen minutes or steadily, as you choose.

I must be watch-accurate as a time-keeper or they won't let me leave the factory. They make me run six solid days and nights without varying two minutes. If I do vary—back I go to the adjusters.

I look like a watch, act like a watch, and in many respects am built like a watch.

a watch.

The heart of your watch is the

escapement—the part that ticks and on which all its timekeeping quality depends. Look at your watch. Its escapement is governed by the balance wheel and the hairspring in exactly the same way as my escapement is governed.

That's why I'm a timekeeper.

Most alarm clocks tick slowly and

That's why I'm a timekeeper.

Most alarm clocks tick slowly and heavily. I tick lightly, evenly and fast—like a watch.

An inner casing of steel makes me strong and keep's out the dust. That's why I stay a timekeeper for years.

Got o your jeweler's and take a look at me. Note my triple plated, nonrustable nickel case—"thin model" style like the newest watches. Hear me ring the "National Call to Breakfast." You'll say I'm worth every cent of \$2.50.

cent of \$2.50.

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you are sending him the paper. Could you do him a better turn?

## HOME CIRCLE



Nothin' to Say.

Nothin' to say, my daughter! Nothin' at

all to say—
Gyrls that's in love, I've noticed, ginerly has their way!
Yer mother did, afore you, when her folks objected to me—
Yit here I am, and here you air; and yer mother—where is she?

You looks lots like your mother: Furty much same in size;
And about the same complected; and favor about the eyes:
Like her, too, about livin here,—because she couldn't stay
It'll most seem like you was dead—like her:
—but I hain't got nothin to say!

She left ye her little Bible—writ yer name 'crost the page—
And left her ear-bobs fer you, ef ever you come of age.
I've allus kep' 'em and gyuarded 'em, but ef yer goin' away—
Nothin 'to say, my daughter! Nothin' at all to say!

You don't rikollect her, I reckon? No; you wasn't a year old then?

And now yer—how old air yer? W'hy, child, not twenty! When?

And yer nex' birthday's in Aprile? and you want to git married that day?

\* \* \* I wisht yer mother was livin'!—but —I hain't got nothin' to say!

Twenty year! and as good a gyrl as parent ever found! ever found!

There's a straw ketched onto yer dress there—I'll bresh it off—turn around (Her mother was jes' twenty when us two run away!)

Nothin 'to say, my daughter! Nothin 'at all to say!

Tames Whitcomb Piles

-James Whitcomb Riley. It is said that a little paraffin added

to hot starch will make the clothes glossy and white. When pressing open the seams in sleeves, if a sleeve board is not at hand try using a bottle. The bottle of course must be smooth.

When cooking old potatoes add a tablespoonful or two of sweet milk to the water in which they are cooking. This will prevent their turning dark as they frequently do at this season

of the year. About the proper proportion for thickening cream soups is a table-spoonful of flour to each quart of milk.

When cooking a beef roast, a few minutes before removing the meat from the oven add a cupful of sour cream to the pan and baste the roast with it. After removing the roast make the gravy as usual and the cream will give it an added richness and flavor which is most delightful.

In baking a souffle care should be taken not to have the oven too hot. If it is the souffle will crust over and not puff up as it otherwise would and it will fall as soon as it comes from the oven. They are most satisfactory when baked in a slow oven.

Cheese sandwiches-Two pounds of American cream cheese, one small bottle of stuffed olives. Grate the cheese and chop the olives fine. Mix these, adding sufficient cream to make a soft paste and spread between two thin slices of either white or rye breed. bread.

### Sir Isaac Newton's Courtship.

Sir Isaac, we are told, was once per-suaded by his friends to entertain some thoughts of marriage, and a suitable young lady was selected by

Though considerably celestial bodies at the time, he liked the terrestrial luminary very well, but in the honest way of courtship he in-formed the girl that he had many odd

Complaisant and good-natured, as most young ladies are under the circumstances, the fair one promised to be indulgent; and so pleased was Sir Isaac with her kind-heartedness that he resorted to his favorite pipe immediately. Enjoying it whiff after whiff, he entered into conversation with his sweet partner, held her hand in his, squeezing it occasionally as a lover ought. At length he sank into one of his abstracted reveries, and whether he was thinking of the apple and its fall, of squaring the circle, or what else, never has been determined, but his pipe becoming dull he, in the

of his mind, unwittingly raised the yielding damsel's hand to wards it and used her little finger as wards it and used her little inger as a tobacco-stopper. Her screams aroused him, and looking innocently in her face, the philosopher exclaimed, "Ah, my dear madam, I beg your pardon! I see it won't do! I see, I see, that I am doomed to remain a bachelor."—An Old Favorite,

Useful School Fads.

PROF. G. R. DAVIES, STATE NORMAL SCHOOL, VALLEY CITY, N. D. "The first business of a child is to become a healthy animal."

Luther Burbank, whom every one knows for his wonderful work in the rearing of children. He says, "Every rearing of children. He says, "Every child should have mud pies, grasshopers, water-bugs, tadpoles, frogs, muturtles, elderberries, wild strawberries, acorns, chestnuts, trees to clim, brooks to wade in, water lilles, wood chucks, bats, bees, butterflies, various animals to pet, hay fields, pine cone, rocks to roll, sand, snakes, hucklaberries, and hornets; and any child who has been deprived of these has been deprived of the best part of his education."

That is laying it on pretty thick but you can tell what Burbank means He means that a child should be out in the fresh air and sunshine as much as possible, learning from things by handling them, and above all, whether he learns or not, exercising his mus-

Don't compel a child to do much fine minute work, and discourage him if he wants to. If he is going to write a big coarse pencil to make big let ters is the thing to start with. As year old child ought not to read the in which the capitals are under a quarter of an inch high. This is to cause there must be considerable nerve development before there is I capacity for fine work.

Eyes were made for seeing at a distance mostly. They have to be broken in very gradually to the hear strain so often demanded of them by our ways of working now-a-days. It he child use his avec as much as the the child use his eyes as much as possible on large things, and out in the open. Eye strain, and the effort of attention to fine work like needs work and too much reading and writing are sources of the nerve disorder now so common. The nerves that control big bodily muscles are in way the foundation of the fine nerves. Let the child get a good for dation for his nervous system by plenty of running, romping, climbing etc.

The schools are developing the science of managing the play of the dren, and even are bringing some dren, and even are bringing some the play element, and much of physical activity, into the school room. This is as it should be. Much that been wasted in discussing in points of science with children who ought to be moving about and handing things in order to learn. So do set your teacher down as being sent to the control of the contr crank if she is trying to introdu into her school some of the new ides. Help her out with her playground, is school garden, her manual training and other so-called fads. Children who have plenty of directed actiff. who have plenty of directed actiffing their early years will learn all the faster in their later years.

And let the child work; not and arduously, but so as to establish he had a set of establishing the heart of the the habit of industry and to familia ize him with things and to land one of the advantages of farm that the child can get such an about an

The following table arranged by Clement Dukes, is a sort of general average of what amount of work and a sort of general average of what amount of work and a sort of general average of what amount of general average of what amount of general average of g sleep is desirable for a child of gift age:

Hours of work Per night 12 15 20 25 35 45 0

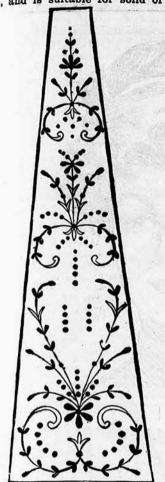
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503. Design for a Skirt Panel. Embroidery gowns and waists are very fashionable this season. The design here shown is a conventional pat-tern, and is suitable for solid or eye-



et embroidery. Perforated pattern with stamping preparation 35 cents; ransfer pattern 10 cents. A shirtwaist set to match it can be secured n 501. kein. Silk in any shade 5 cents per

702. A Simple House Dress in Semi-Princess Style.

A deep tuck over the shoulder in ront and back, give the necessary fulless for this design. The waistathers in easily at front and back nd is joined to four skirt gores, that with the panel front complete the ody portions of this desirable model. he sleeves are finished at the elbow with a neat cuff that is mounted on a traight band cuff which in itself orms a desirable sleeve finish. The ack of the skirt portion has an in-



suitable. As a housedress or a

simple afternoon gown the model will be very appropriate. The pattern is cut in 6 sizes, 32, 34, 36, 38, 40, 42 inches bust measure, and requires 74/2 yards of 44 inch material for the 36 inch size. A pattern of this illustra-tion mailed to any address upon receipt of 10 cents.

"John Doe & Sons." When you take a drive through the business section of any town and chance to be enough interested to read the sign boards over the entrance to the business houses, among them all you no doubt read: "John Doe & Son" or "John Doe & Sons," several times, or perhaps, "The John Doe Mercantile Co." And if you just stop to think, these sign boards mean a great deal; the John Doe & Son or Sons, means that some wide awake hustness man has taken his some water. business man has taken his son or sons (or perhaps son-in-law) into business

with him as a full partner.

But a trip through the country and a careful observation of the names on the mail boxes or farm sign boards rarely finds "John Doe & Sons" or "The John Doe Farm Co." stenciled on either mail box or sign board. And the question arises, why not "John Doe & Sons" on the farm as well as in the city and town? Partnership is not enough favored by farmers. But to answer the question "why?" is to offer many reasons. First, partner-ship on the farm is not such an easy, satisfactorily arranged business affair as partnership in a town or city. The farmer's business enterprise is his home, unless he is an extensive land owner. With the city business man this is not true. If the farmer owns but an eighty or one hundred and sixty acres and has more than one or two sons, there soon becomes more hands to work than there is land and stock to keep them occupied, hence the partnership deal cannot continue unless nearby land can be rented. And at this stage of development, most nearby farms that may be leased are improved farms and the owner prefers that the house and buildings be occupied. And after a trial of bachelorship to comply with the landowner's request, and be near to his work, the boy soon feels himself an isolated partner, and begins to think seriously of severing his partnership with his father, and establishing a business of his own, and later ou, perhaps, taking a life partner to facilitate

his business enterprise.

The time to begin your partnership with your boys is in the beginning of their lives, get acquainted with them when they are small and let them get acquainted with you. Of course all boys raised on the farms will not take farming for an occupation, for not a few boys raised in the cities take to farming instead of the professions as a life's business. Because a few of the best farm boys go to the cities to help make them (the cities) good, and a few of the inactive boys go to escape hard labor, should be no cause for alarm. Do your part by your son, further than that you are

Most farm boys prefer to be their father's partner instead of his servant. They want to feel that they have a right to own some personal property, and to use rightly anything there is on the farm, that they are old enough to use. And when any difficulty arises between father and son, the boy would like an opportunity at least to express his opinion of the matter. It is a grave mistake for a farmer to be always cranky and disagreeable, and to select as his own work every farm chore that is easy and consign the difficult work to the boys, and to make the hard work more disagreeable by offering no word of praise or appreciahorse; he knows when he is well treated and when his presence is desired. And if you wish your boys to be good, honest, faithful, industrious workers, give them every opportunity to be such by allowing them to trans-act business, use the farm machines, select and buy the farm implements. and go to market. Let it be said that your boys can do anything in the business line that you can; it will be all the better for you and your boys; it will add to their storehouse of knowledge, and make their future years less burdened with having to learn how to do business; and lessen your cares of the farm business. In the farm business, a father should talk and plan with his boys like the

ayel BUILT ON HONOR HONORBILT SHOES FOR MEN Mayer Honorbilt Shoes are the dressiest and most upto-date fine shoes you could ever hope to wear-shoes thatarenotonly modern and stylish, but for wearing qualities they're better than shoes that sell at the same price. Mayer Honorbilt Shoes are made to give lasting service. They hold their shape and style because they are made right. The finest uppers, the toughest soles, the most skilled labor go into the Mayer Honorbilt Shoes. They are built on honor—that's how they get the name. To get the biggest shoe values ask for Mayer Honorbilt Shoes. If your dealer cannot supply you write to us. Be sure and look for the Mayer Trade Mark on the sole. Free of a dealer who does not handle Mayor Honorbilt Shoes, we will send you free, postpaid, a handsome picture, size 15x20, of George Washington. We also make Leading Lady Shoes, Martha Washington Com-fort Shoes, Yerma Cushion Shoes, Special Merit School Shoes, and Mayer Work F. Mayer Boot & Shoe Co.,

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members of any firm. And in planning with the boys, let them use their own young knowledge, and don't try to make them use your brains. Generally a boy that uses his father's brains exclusively, and has no knowledge of his own, makes a "tool" for other men when he grows to man-

When a farmer forms a partnership with his boys, whether the boy be one or twenty-one years old, he should make an honest deal or contract and live up to it. Honesty in partnership between father and son is as important as with any other man or boy. Such contracts as "Johnnie's pig and papa's hog" or "papa's pig and John-

nie's hog" are not very satisfactory.

Not all farm boys are discouraged
by their father's indifferent treatment, or unprogressive farming; many boys profit by their father's mistakes. But the future rural outlook would be much brighter if there were more honest partnerships between fathers and sons on the farm .- F. L. Fields.

The profit from a cow depends very largely upon how comfortable she is kept.



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CHAPTER TWENTY. THE CONSPIRATORS.

THE CONSPIRATORS.

OW far do we go, and what do we do when we get there?" asked Frisble of his chief, when the two buckboards, heaving and lurching over the rockstrewn talus at the foot of the canyon cliff, had passed beyond sight and sound of the headquarters camp at the mouth of Horse Creek.

"I'm not guessing any more," said Ford crustily. He was finding that his temper detorlated as the square of his distance from Alica increased. "The president said he wanted to drive over this short-cut, and he's doing it."

"Humph!" growled Frisble. "If he wanted to r" 'in' your bruises, why didn't he ... ... in the cart with him? And where do I come in?"

"You are 'implicated' with me; that was his word."

Another mile passed in discomforting plungings. The trail had become all but impassable for the staggering horses; yet the leading buckboard held on doggedly. There were places where both drivers had to get out and lead; bad bits where all save the president descended to walk. But through the worst as well as the best, Mr. Colbrith clung to his seat like a man determined to ride. It was well past noon when the two vehicles reached the western portal of the canyon, and the dottings of the Copah mine workings came in sight on the hillsides to the southward. Ford's driver had fallen a little behind in the final half-mile, and when the gap was closed up, the president was waiting

"Well, Mr. Ford," he began, somewhat breathless but trlumphant, "are you fully satisfied?"

"Ih have learned nothing that I did not know before we began to build the extension," was the non-committal rejoinder.

"Oh, you haven't? You reported that canyon impracticable for a railroad, and yet I have just driven through the without once dismounting from this buckboard. Moreover, we shall find in Copah to-morrow s re-survey of the line showing its practicability, Mr. Ford,—a report not made by your engineers."

Ford and Frisble exchanged swift glances of intelligence. The presence of the strange engineering party in the cayon was sufficiently expla

Empire Builders. Copyright 1907 by Frances Lynde.

But Mr. Colbrith was not to be balked or turned aside.

"Mr. Ford, I wish to be fair and impartial. I desired to satisfy myself, personally, that this route we have driven over is practicable, and it was also my desire that the investigation should be conducted in your presence. You will admit now that you made a mistake— a very costly mistake for the company—in abandoning this short cut."

"I admit nothing of the kind. The

the company—in abandoning this short cut."

"T admit nothing of the kind. The difficulties remain as they were, quite unchanged by our pleasure trip from the end-of-track, Mr. Colbrith. Assuming that the re-survey will report that the north bank of the river is practicable, while the south bank is not, I have only to say that the cost of the two bridges would offset the easter grading conditions, while the danger to future traffic would remain the same. But that is neither here not there. You must either give us credit for knowing our business, or you must discredit us entirely."

Frisble was grinding his heel into the hard soil of the mesa. The argument was growing rather acrid; and Penfield and the two drivers were interested listeners. It was high time for a diversion to be made, and the assistant made it.

""We have used five hours getting down here, and we'll need as many going back," he put in. "Unless there is something more to be done on the spot, I think we'd better take the road over the hills. It's with you, Mr. Colbrith."

The president signified his assent by

spot, I think we'd better take the road over the hills. It's with you, Mr. Colbrith."

The president signified his assent by climbing into his buckboard, and the return journey was begun with the two engineers in the lead for pathfinding purposes. Once safely out of earshot, Frisble volced his disgust.

'A wild goose chase, pure and simple! Stuart, that old man is in his second childhood."

"Not at all," said Ford. "He is merely following out North's suggestions. Dick, my name is Dennis."

"Nonsense! Things are no worse that they have been all along."

"My time with the Pacific Southwestern is sherter by just the number of hours it has taken us to drive down here. Mr. Colbrith has convinced himself that I was wrong in abandoning the canyon. To-morrow he will convince himself that I was doubly wrong in approving the detour. I shall hand in my resignation to-night."

"So be it," said Frishie shorts."

"That means good-by to the extension. The means good-by to the extension of the railroad world as that of a man who bit off a number of large fifth that, Frishie could get no more that that, Frishie could get no more that single-syllabled replies to his mood winding, through the greater part of winding, through the greater part it, among and over the swelling hill north of the Pannikin. On each time top the vast sweep of the iter-mounted the could to the text-mounted the could the real of the pannikin. On each time top the vast sweep of the iter-mounted the could the real of the pannikin. On each time top the vast sweep of the iter-mounted to the could the same and over the swelling hill north of the Pannikin. On each time top the vast sweep of the iter-mounted the could the could the iter-mounted the could the could the iter-mounted the could the cou



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tain wilderness came into view, and from the highest point in the trail, reached when the sun was dipping toward the western horizon, the eyesweep took in the broken country lying between the Pannikin and the path of the Transcontinental narrow gauge forty miles away.

Jack's Canyon, the Transcontinental station nearest Copah, was the beginning of a combined pack trail and stage road connecting the Copah district with what had been, before the advent of the Southwestern Extension, its nearest railrad outlet. Along this trail, visible to the buckbourders as a black speck titiuping against the reddening background of the west, galloped a solitary horseman, urging his mount in a way to make Frisble, getting his glimpse from the hilltop of extended views, call Ford's attention.

"Look at that brute, pushing his horse like that at the end of the day! He ought to be—"

But the hestening rider was getting his deserts, whatever they should be, as he went along. For three hours, with three relays of fresh horses picked up at the stage stations in passing, he had been galloping southward, and to whatever other urging he might confoss was added the new one of fear, the fear that in the approaching day's-end he would lose his way.

Seen from the nearer point of view, the tittuping horsema seemed curiously out of harmony with his environment. Instead of the cowboy "shaps," or overalls, he wore the trousers of civilization, which the rapid flight had hitched half-way to his knees. In place of the open-breasted shirt with the rolled-up sleeves there were tailor-made upper clothes, with the collar and cravat also of civilization, and the hat—it was perhaps fortunate for the rider that he had nor met any true denizens of the unfettered highlands on the lonely trail from Jack's Canyon. His hat was a Derby of the newest shape; and the cowmen beyond the range are impatient of such head-gear.

Recognition, after one has ridden hard for three hours over a dusty road, is not easy; but there are faces one never forgets, and the featur

that half-hour Mr. North had held his chin in his hand to some good purpose.

With the fresh complications promised by Adair's projection into the field, a stronger man than Penfield should be in command on the firing line. The vice president decided swiftly that Eckstein was the man; but how to get him to the MacMorrogh head-quarters before Adair should arrive?

It proved to be stratogr in the outcarrying than in the overstaining. A special light engine over the Transcontinental to Jack's Canyon—an exchange of courtesies which even fighting railroads make in war as well as in peace—a wire request on the stage company for relays of saddle horses, and the thing was done. And Eckstein, pushing his jaded beast down the final hill in the dusk of the eveing, and welcoming, as only the saddle-tormented can welcome, the lights of the headquarters camp, confessed in cursings quite barbaric in their phrasings that he, too, was done.

The conference held that night behind locked doors in the MacMorroghs' commissary office was a council of five, with Eckstein, as the mouthpiece of the vice president, in the chair. Penfield was present, with no vote, and the three MacMorroghs voted as one; but as to that, there were no divisions. A crisis was imminent, and it must be met.

met.

"As I have said, I am here with power to act," said Eckstein, gripping the chair with wincings after the day of torment. "The plan outlined at first by Mr. North must go through as it of torment. "The plan outlined at first by Mr. North must go through as it was outlined. Part of it has already heen carried out, you say: Ford and the president have been over the short-cut together. To-morrow the entire private-car party goes to Copah over the detour. Are the buckboards here for that?" detour. that?"

for that?"

"They're here wid the drivers. I saw to that part of it myself." It was the youngest of the three MacMorroghs who gave the assurance.

"So far so good." commented the chairman. "The other thing we have

"So far so good." commented the chairman. "The other thing we have to provide for or rather, to prevent, is the possibility of Mr. Adair's reaching here in time to join the party. The last definite information we had of Mr. Adair he was crawling up Blue Canyon with a train crew which was under orders to give him ample time to study the scenery. He has propably reached Saint's Rest before this, however, and once there, Leckhard wil give him anything in sight. The question is, will he attempt to run the extension tonight?"

The middle MacMorrogh thought not, and his younger brother agreed with

and his younger brother agreed with him. But the senior partner voted aye, and stuck to it. Thereupon ensued a conflict of opinion. Dan MacMorrogh pointed out that the construction mo-

tive power was all at the west end, or in transit eastward; it would be daylight of another day before an engineer familiar with the hazards could be obtained for Adair's special over the construction line. But Brian MacMorrogh argued with equal emphasis that this was a mere begging of chances. Without a telegraph wire to verify the guess, no man could say at what hour one of the trains of empties would pull through to Saint's Rest; and whatever the hour, Leckhard would doubtless turn the engine and crew to double back with Adair's car.

Eckstein was gripping the arms of

the hour, Leckhard would doubtless turn the engine and crew to double back with Adair's car.

Eckstein was gripping the arms of his chair and setting his teath deep into his cigar while the probabilities were getting themselves threshed out. At the end of the dispute he said quietly: "It's a hell of a pity we can't have the use of the wire for this one night. But, getlemen, we can't stop for trifles. There are five of us here in this room who know how much is at stake. One of two things is due to happen. If we can keep Adair out of it for another twelve hours, Ford will be disgraced and asked to resign. If he gets to that point, we're safe. I know Ford's temper. If Mr. Colbrith puts it as he is likely to put it, Ford will say and do things that will make it impossible for Adair or any one else to get him back into the service."

"Thrue for you, Misther Eckstein; ye have 'im down to the crossin' of a 't'," agreed the eldest of the brothers MacMorrogh.

"That is one of the due things," Ecksetin went on smoothly. "The other isn't pretty to look at. If Adair gets here in time, it will be another story. He can handle Ford; and he has proved once or twice that he can handle Mr. Colbrith. If he hadn't been out of the way when you went to New York with Mr. North, you'd never have seen the thin edge of this contract. Brian. Well, then what happens? With Adair on the ground to back him, Ford wins out. Do you know what that means? Investigations, muck-rakings, and worse. There are two or three of us here, and some more on the other side of the range, who won't get off with less than ten years apiece. I'm willing to take the chance of a few more years for another play on the red. How is it with the rest of you?" The elder MacMorrogh spread his hands.

"It's all in the same boat we are. You've a notion in the back par-rt of

more years for another play on the red. How is it with the rest of you?"
The elder MacMorrogh spread his hands.

"It's all in the same boat we are. You've a notion in the back par-rt of your head, Misther Eckstein; lave us have it."

"As I have said, we can't stick at trifles. If Adair's train is on the extension, it mustn't get here. Somebody goes up the line on a hand car to-night and stops it."

"Is it to ditch it, ye mane?" asked the youngest of the brothers in a hoarse whisper.

Eckstein laughed cynically. "What a lot of crude cutthroats you are!" he jeered. "Now if it were Ford, instead of Adair—but pshaw! a rail or two taken up and flung into the river well beyond walking distance from this camp does the business. Only the man who does it wants to make sure he has gone far enough back to cover all the possible charces."

"That's me," said Dan MacMorrogh; and he rose and let himself out, with the younger brother to lock the door behind him.

The door-keeping attended to, the younger brother drew closer into the circle.

"There's wan thing," he said, looking furtively at Eckstein. "I was in Copah this day: I got the buckboards for Misther Colbrith. Goin' past the bank, who would I see but oud old book-keeper. Merriam, chinnin' wid the bank, president. I thought he was out o' the way entirely.

Stiff and saddle sore as he was. Eckstein leaped out of his chair with an oath.

"Merriam? What the devil is he back here for? It's a put-up job!"

Stiff and saddle sore as he was. Eckstein leaped out of his chair with an coath.

"Merriam? What the devil is he back here for? It's a put-up job!"

It was the chief of the MacMorroghs who flung in the calming word.

"Tis only a happen-so, Misther Eckstein. Merriam owns a mine or two in the Copah, and ye know the fever: a man can't keep away from thim."

"That may be; but it's a cursed unlucky combination, just the same. I tell you. Brian, he knows too much—this fellow Merriam. He knew what was un when he was steering Frisble. You told him too much. And afterward, when we gave him the Oregon job, he knew why he was being bribed to go away. You let us in for this: you've got to muzzle him, some way."

The MacMorrogh looked at his remaining brother meaningly. "Tis up to you, this time, Mickey, b'y. Find your way over to the minin' camp this night, and make a clane job av it."

Penfield was moving uneasily in his chair. The plotting waters were deepening swiftly, much too swiftly for him. Loyalty to his superior officer, the unquestioning loyalty that disre-

chair. The plotting waters were deepening swiftly, much too swiftly for him. Loyalty to his superfor officer, the unquestioning loyalty that disregards motives entirely and does not look too closely at methods, was his fetish. But these men were not merely loyal to Mr. North. They were criminals—he stuck at the word, but there was no other—fighting for their own hand.

"I guess—I guess I'd better go back to the Nadia." he stammered, trying to keep his voice steady. "Mr. Colbrith may need me."

Eckstein turned on him like a snarling animal.

"No you don't, Arthur, my boy. I know you like a book. You stay here till you're in as deep as the rest of us. Like Merriam, you know too damned much."

Penfield sat still, with the cold chills running up and down his spine while

much."

Penfield sat still, with the cold chills running up and down his spine, while Ecketein went on talking to the two MacMerroghs.

"This Merriam business complicates things like hell"—he was growing





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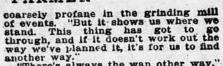
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"There's always the wan other way," said the elder MacMorrogh slowly. "Tis but a drunken fight in wan o' the camps, and Ford tryn' to stop it, as he always does: a bit of a shindy among the b'ys, and this—"orooking his fore-finger suggestively.

"Bahl" said Eckstein. "You fellows ought to have lived in the stone age, when a man pulled his enemy to plees with his bare hands. If it comes with his bare hands. If it comes that, there are easier war——ansfer. A premature plas when he happens to be not being in the way of a pulling engine: they tell me he is always in-different to his personal safety. But never mind the fashion of it; the point I'm making is that if everything else fails, Ford mustn't live to be the head foreman of the outit."

Penfield's face was ashen, and he was cravenly thanking that the lamplight was dim, and that his chair was in the shadow. This was more than he had bargained for; more by the price of a man's life.

Eckstein was lifting this chair. A silence as of a man's life.

The life is for was the way of a man the way of a man that'll do what he's told to do—will be at Ford's heels till this thing do be settled. And now for yourself; 'tis better that ye kape dark. Four of us know that you're in the camp—no wan else need know. I've a room and a bed, and ye'll be nadin't the lasht, I'm thiking."

The two MacMorroghs were bestirring themselves, and Fenneld was slipping through the door. Into the commissary when Eckstein's fingers closed dark. Four of us know that you're in the camp—no wan else need know. I've a room and a bed, and ye'll be nadin't the lasht, I'm thiking."

The two MacMorroghs were bestirring themselves, and Fenneld was slipping through the door into the commissary when Eckstein's fingers closed the plant of the car a man rose up and confronted to where the lighted windows of the Nadia marked the berth of the president's car. Out of the MacMorroghs back door just after dark?

"It was Eckstein." The secretary let slip the name before he could lay hold of his discretion.

"Oh: a

nice to him."
Ford laughed. The evening had healed many of the woundings of the

day.
"If you don't get the chance it won't be Dick's fault—or mine. Meantime, I'll be delighted to pose as his substitute."

tute."
She had gone with him to the door,

She had gone with him to the door, and his last word was a reminder. "Don't forget." he said. "I'm to drive your buckboard to-morrow, whatever happens."

"You are the one who will forget." she retorted. "When Uncle Sidney crooks his finger at you, you'll climb up obediently beside him and let him scold you all the way over to Copah."

"Wait and see," said Ford; and then he said good night, not as he wanted to, but as he must, with Aunt Hester sitting within arm's reach.

Frisble was sitting up for him when he reached the white tents of the engi-

Frisble was sitting up for him when he reached the white tents of the engi-

neers' camp pitched a little apart from the MacMorrogh conglomeration of shacks and storehouses.

"Just one question," said the first assistant, "and I've been staying awake to ask it. Are you still my boss?"

"For one more day," said Ford shortly.

"For one more day," said Ford shortly.

"Well, we can't live more than a day at a time, if we try. That will do to sleep on."

"All right; sleep on it, then."

"In a minute; after I've freed my mind of one little news item. Do you remember that fellow we saw riding in on the Jack's Canyon trail as we were coming back this afternoon?

"Yes."

"Have you any notion who it was?"

"It was Mr. Julius Eckstein; and he is at present lying doggo in the Mac-Morrogh quarters. That's all. Now you can turn in and sleep a few lines on that."

(Continued Next Week.)

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### Orchards Under Irrigation In Nebraska By E. F. STEPHENS

In the discussion of the growing of fruit in commercial quantities in Nebraska, we have so far been accustomed to thinking of eastern Nebraska. Irrigation is developing a region suited to the production of fruit in commercial quantities.

Regarding the behavior of orchards under irrigation in western Nebraska, there have been quite a number of orchards planted and brought into bearing in Lincoln county under irriga-tion. The waters of the Plate river tion. The waters of the Plate river are utilized for irrigation in Nebraska from the west side of Scott's Bluff county down to and through Dawson county. In Dawson county farmers regard themselves as so nearly within the rain belt that they do not make the same county. not make the same effort to utilize the waters of the Platte river for loditches as in the western portion of the state, and yet ditches have been constructed and kept in running condition way through to the western side of Dawson county.

In Lincoln county, on debatable ground, in the rain belt and irrigated districts, it is agreed that orchards under irrigation with a sure supply of moisture during the months of August and September, have an advantage over lands not irrigated and depending solely on the rainfall. While it is entirely practicable to cultivate and plant orchards in central and western Nebraska and to raise a family supply, with or without irrigation, yet for the commercial orchardist the abiltiy to draw on some sure supply of water during the months of August and September is a great help in developing apples to their full normal size and best condition and quality. Commercial orchards have been planted clear up to within a mile of the west line of the state. Apples of excellent quality and abundant in quantity have Scott's Bluff county, near Mitchell, twenty miles from the Wyoming line. At numerous other points up and down the river orchards have been planted and have been brought into bearing and have given promising re-

Another orchard has now been planted some twelve years, the trees have been fairly well pruned from season to season, they have received fairly good, and some years most ex-cellent, cultivation and have had the enefit, when they needed it, of thorough watering. Some seasons, I be-lieve, these orchards have not received any other watering than the normal rainfall, the owner simply depending on excellent cultivation, but when bearing a crop of fruit and when the condition of the soil was such as to require it, irrigation has been available. I believe the orchard this season was carried by cultivation until about the 25th of August, and then in late August and early September was watered twice. This, because there was a large crop of apples in the orchard and an ample supply of mois-ture helps to develop the fruit to larger size and excellent quality.

The cherry, plum and peach orchards commenced bearing very young and have given a good account of themselves. The plum orchard has been very profitable, and very rarely fails to market a commercial crop. The cherry trees began bearing when

three and four years planted and have never failed to give a larger or small crop. The peach trees have given fruit to sell some six or seven seasons; two years ago there was quite a large commercial crop of peaches for sale, and there were eighty bushels of peaches this season.

els of peaches this season.

Single trees in the apple orchard gave a bushel and three pecks the fifth season after planting. The main apple orchard is bearing perhaps its fifth or sixth crop of sufficient quantity to be rated as a commercial prochard. The crop of summer and fall apples marketed at prices around \$1 and \$1.50 a bushel, the winter apples sold for \$3 and \$4 a barrel and the crop was 12,000 bushels. The Ben Davis yielded five to twenty bushels to the tree. The Winesap, Missouri Pippin and Jenet trees were also well laden. laden.

The success of this orchard is due, first to being planted on a fairly suitable plat of ground. Its location is from the edge of the Platte valley up on the side of low foothills. The irrigating ditch at this point is perhaps forty-five feet above the river. The orchard extends from the ditch bank down and into the valley. The most productive portion of the orchard is on the higher levels, up near the ditch, because it better escapes the damage from spring frosts and yet this season, there is a fair crop of fruit all over the orchard. This or-chard was planted in the main with apple trees that were already four and five years old, and was the first of some 50,000 trees planted by the Crete Nurseries on a branch orchard or share plan. The theory followed by the nurseries at that time was this, that if they planted the orchard with the older trees, the orchard would commence bearing at a younger age. It should be remarked, however, that the trees had been prepared for this class of work by having been annually cut back and had been twice root pruned, the effect of which was to hold these trees four or five years of age down to a one-year head, strong trunk and vigorous root system.

During the early years of its existence, the orchard received very thorough, careful, clean cultivation and has been pruned annually. We notice in the crops of fruit grown that the best Grimes Golden apples weighed one-half pound each. The fruit of all varieties sold to excellent advantage because the orchard was kept perfectly clean and free from scab and nearly free from insect enemies. In picking, packing and mar-keting, the waste of fruit thrown out is reported to be only one bushel in The owner has used a power sprayer, spraying his orchard three times annually and this indicates clearly that the intelligent care incident to cultivation and spraying as needed, will grow fruit of the best quality in central and western Ne-braska.—E. F. Stephens, Crete, Neb.

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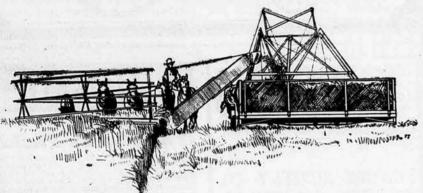
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If it is true that orchard trees do not live long in this state there must be a reason. This reason, in the minds of many, is found in the cli-mate. Now, there can be no doubt that our climate is trying on some varieties, but is not the real reason to be found in our lack of care of the orchards?

The taking off of crops of fruit and the annual growth of the trees each make a heavy draft upon the fertility of the soil and too many of us give nothing in return. The trees are starved and when this is true they The trees are are weakened and have less power of

resistance to the climatic changes.

Probably the chief reason for the short lives of our orchard trees in this state begins with the starvation of the

### Now "Orchard Schools."

Notwithstanding the fact that Kansas has for many years been producing some magnificent crops of apples and some fine fruit, there is very lit-tle general interest in orcharding. This is largely due to the feeling that this business requires too much scientific management. The farmers, who have been in the habit of growing corn and using riding plows, riding harrows and riding cultivators, and then letting their hogs husk the corn, shy a little bit when it comes to prunorchard trees, spraying them, etc. The Kansas Agricultural College believes, not in commercial orcharding for every man, but in a "farm orchard for every farm." For the past two years the college has employed a successful orchardist in the extension department who has been attending farmers' institutes and talking to farmers on the simple problems of orchard management. Mr. C. V. Holsinger, formerly of Rosedale, Kan., offers

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The plans for all of the movable schools from the Agricultural College are much the same: Class of from twenty to forty, each paying a fee of 50 cents to cover incidental expenses of the school; regular instruction from 9 to 12 a.m., and from 1 to 4 p. m., with demonstrations each day p. m., with demonstrations each day in a nearby orchard. The college charges nothing for Mr. Holsinger's services other than his expenses which can be met from the small fest paid to the local committee by the members. These schools ought to be held in March and April and dates will be given now promptly upon application. Mr. Holsinger also offers to visit orchards and April and Apr visit orchards anywhere in the state to inspect them and advise in regard to management. Already a good many requests have been filed and these visits will be made in March All correspondence relative to these movable schools should be addressed to superintendent of extension department. Agricultural College, Manhattan Kar.

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COW-PEAS; CLEAN, NEW CROP. VArieties: Crowder, Whippoorwill, Gray Goose, My experience with cow-peas making \$30 to \$67 per acre free with 2 bu, orders or more, Price \$2.90 per bushel, my station. D. J. Yoder, Haven, Kan.

PURE BOONE CO, WHITE SEED CORN. Raised on the best Kaw Valley land; tipped, shelled and graded. My corn is extra fine in quality and I will guarantee it. If not satisfied will return your money. Price, shelled, \$1.65 per bu; ear, \$2. Reference: Shawnee State Bank, Topeka. J. W. Cochran, Silver Lake, Kan.

FOR SALE—BEARDLESS BARLEY AND White Pearl corn; barley recleaned; corn; selected, shelled and graded; both put in new bags; f. o. b. cars here at \$1.10 per bu, in two or more bu, lots: bags free; both of above of my own raising; can be returned if not satisfactory and money will be refunded. A. F. Huse, Manhattan, Kan.

#### HORSES AND MULES

FOR SALE—3 PERCHERON STALLIONS registered. George Beyan, Scranton, Kan.

FOR SALE-IMPORTED PERCHERON stallions. Address Box 213, Holton, Kan.

SHETLAND PONIES - WRITE FOr price list C. R. Ciemmons, Waldo, Kan.

THREE JACKS, ONE BLACK PERCHeron registered stallion; cheap if sold in 19 days. F. L. McCoy, Eskridge, Kan,

REGISTERED SHETLAND PONIES FOR sale. The pure Shetland pony is the child's pony. Correspondence solicited. N. E. Stucker, Ottawa, Kan.

FOR SALE—9 REGISTERED PERCHeron stallions, 2 to 6 years, black and bays; also a few mares in foal; priced to sell. J. H. & A. C. Tangeman, Newton, Kan.

## Worth Saving On A Cream Separator?

F IT IS, then write for my big new Book about Cream Separators, and the Personal Price Proposition that I'll make you for a limited time only.

sition that I'll make you for a limited time only. It's the most complete and interesting book ever written on the Separator question. Full of eye-opening information and truthful pictures of Galloway's famous Bath-in-Oil Cream Separators —\$29.75, and up. We make a line of cream separators equal in every way to the highest priced separators made. I sell them direct to farmers in great quantities at enormous savings. There is absolutely no reason in the world why you should pay around \$85 for a separat r that skims no better than the Galloway—if as good. That \$85 you are asked doesn't represent separator value. What it does represent is what you are asked to contribute to the many-profits system in the old-fashioned way of selling. Just compare this with my loan-priced system. Then again look out for the machines that are way too cheap. You don't want one of those at any price. of those at any price.



Galloway's Bath In **Cream Separator** 

We deal on a big scale. We have to, because my whole business depends upon the law of volume. By dealing with tens of thousands of farmers I am able to sell implements direct on a small margin of profit. I am able to save you from \$21.25 to \$45 on a Cream Separator of higher quality because of this and because of my splendid factory organization and improved automatic machinery. But one thing I don't save on is materials. The only way I save on materials by byving in enormous quantities. I don't save at the expense of quality. If Galloway's Bath-in-Oil Separators were not equal in every way to the highest-priced separators on the market, I wouldn't dare to guarantee them as I do. I wouldn't dare to guarantee them as I do. I wouldn't dare send them to you treight prepaid on 30 days' free trial with the distinct understanding that I'll accept them back on your say-so and refund every cent of your money, including freight charges both ways. I stand all the expense—take all the risk. It is up to me to convince you—to satisfy you. Now sit down and write for my big Separator Book, It's interesting and it's convincing. Let me make you my personal price preposition. Send me a postal NOW.

William Galloway, President

William Galloway, President The Wm. Galloway Company 383 Galloway Station, Waterloo, Iowa

FOR SALE OR TRADE—BLACK FERCH-eron stallion 5 years, weight 1800; sure; black fack 7 years; 15 hands 1 inch. M. C Pollard, Carbondale, Kan.

I WILL SELL AT PUBLIC SALE ON March 6, 3 miles east of Festoria, Kan., one black Percheron stallion 2 years old April 1; weight 1550 lbs.; will make a ton horse; registered; one jack 2 years; weight 940 lts.; will make 1150 lbs. G. S. Roberts.

FOR SALE OR TRADE—ONE HIGH grade Fercheron stallion; will sell cheap if sold in 30 days, Address G. A. Gosch, R. 6, Sterling, Kan.

BLACK JACK, WHITE POINTS, 15 hands; large bodied; very heavy boned; sure; 7 years old For sale or exchange for cattle, J. K. Hammond, Wakefield, Kan. 1

STALLION FOR SALE—ONE BLACK Percheron, registered in the Percheron so-ciety of America. One registered English Shire. Both rising three good heavy, boned colts. James Auld, Wakefield, Clay Co.,

#### CATTLE.

POLLED JERSEYS - CHAS. S. HAT-field, Springfield, Ohio.

FOR SALE — D. S. POLLED DURHAM bulls of different ages and good individuals. C. M. Albright, Overbrook, Kan.

FOR SALE—30 HEAD OF HIGH GRADE Jersey ccws and helfers; 12 fresh 1 to 4 weeks; balance to freshen soon. Address E. G. Bennett, Carthage, Mo.

#### MISCELLANEOUS.

WANTED-10,000 BABY REDS, DUCK-lings, Indian Runners preferred. Houdans, Minorcas and mixed breeds. Harry Shelton, Alcott Station, Denver, Colo.

20 BEAUTIFUI. POST CARDS, AIR Brush, Slik Roses, Motto, etc., 10c. Wm. Holter, Box 245, Dequeen, Ark.

"CONCRETE ON THE FARM"— AN IL-lustrated book telling farmers how to do they get results. Write Ottawa Metal Sign Co., Ottawa, Kansas.

WANTED—POSITION AS TRACTION OR steam roller engineer; competent and reli-able. Joe Armstrong, Derita, N. C.

FOR SALE-106 TONS ALFALFA HAY Kan. S. I. Perin.

USE METAL WIRE FENCE SIGNS, their own cement work successfully. Send 25c to W. H. Baker, Wadsworth, Ohio. 100 KINDS EGGS, POULTRY, FIGEONS, pheasants, collies, Jerseys registered, irrigated Alberta land, rent shares. Pauly's Pheasantry, Kahoka, Mo. 2

I never miss reading the Kansas Farmer for, although I never farmed, I have always been interested in farming, and such being the case, you can readily see how I like the "old reliable." The last number was especially fine. Now that I have become a land owner I naturally fine more interest in the Kansas Farmer and enclose my check for renewed subscription. I now own 500 acres of wheat in western Karsas and am depending upon the Karsas Farmer to teach me how to manage it.—E. L. Knostman, Riley county •••••

A Question of Rental

Farmer A rented a piece of hay land from Farmer C and put up the first crop of timothy and clover. A gave up the land before the second cutting, up the land before the second cutting, and C gave the second crop to B to put up. Under A's contract he put up the first crop of hay for one-half, stacked in the field. Now my question is who gets the use of the pasture after the second cutting. If B gets it, who must fence A's and C's hay stacks that are standing on the land to protect them from the cattle.—Guy J. Spencer, Whiting, Kan.

After A had given up his lease hold on the land, he has no more claim on

on the land, he has no more claim on it whatever. The pasture evidently belongs to B, unless there was something in the contract which reserves this for C. The conditions of the contract are not clearly stated, but from the information you give would say that A and C must fence their stacks to protect them against B's cattle.

American Berkshire Association Special Premiums.

At a recent meeting of the directors of the American Berkshire Association appropriations were made for special premiums for the breed at the fairs of 1911.

The association will offer a solid silver loving cup valued at \$50 for the best young herd exhibited at each state fair. This herd must be bred and owned by an exhibitor of the state in which the fair is held.

For the American Berkshire Congress Show \$600 was appropriated.
At the International Live Stock Exposition \$450 in special cash and cup

prizes. At the American Royal Live Stock

At the St. Paul Stock Show, Paul, Minn., \$100 for Berkshire bar-At the National Breeders' and Feed-

ers' Show, Fort Worth Texas, \$200 is offered for Berkshire barrows. At the Kansas State Fair, Topeka,

silver loving cup valued at \$50 for the best under one year herd. The Berkshire futurity planned by

the Kansas Berkshire Association will also be pulled off at the Topeka fair.

B. E. Holmes asks some questions about the sowing of spring wheat. but as he gives no postoffice address we are not able to answer his questions as the location is an important factor. Will he please write again and give his postoffice address?

### HORSES AND MULES

#### JACKS

I have an hung a large collection of the best stallings the world, produces. I have the mest line of big heard, dapple gray and black, tone stallions that can be shown in the United States this season. These stallions researce from 12 to 14 inches below the knee and carry corresponding questry. They run in weights from 1,800 to 2,630 pounds each. I am offering greater attractions in stallions than other importers. Prices the lowest.

I have also forty big imported mares, all in foal, for sale.

W. E. DECLOW.

Cedar Rapids Importing Forms.

Cedar Rapids, lows.

Register, Write for blanks.



KENTUCKY MAMMOTH JACKS WE have the biggest and best string of Marmoth Jacks, in the West at the fair grounds, Hotchinson, Kam. Come and see them or write for circular. Don't let any-body persuade you to buy a jack until you have seen our at Hutchinson. We will make a jack though for you, any day mak better than you will see at any of the state fairs in the country.

JI F. COOK & CO., Riccommon, Kan.

Ome of the largest number of large bone and smooth Jacks in the West; It to over 18 hands high; prices resonance; 66 miles west of H. C. on U. P. and Santa Fe Rys.

Boxt A. Essenance, Management





JACKS AND JENNETS 20 large Jacks from 2 20 large out. 27 years old. 25 head extra good. Democratic priced right:

PHIL WALKER, Moline, Elk Co., Kansas



JACHE AND JENNETS.

Fixe extra fine jacks for sale, one 5 years old, one 4 years old, two 2 years old and one yearing; also these extra fine jennets, Bargains, if taken at once.

F. S. EURGESS, Despen, Mb.



FOR SALE—15 negistered Black Mammoth Jacks: Won first pre-minums on Jacks; first en jemets and first on mule celts at Husch-inson State Fair, 1715; H. H. HEBBERAN, Inspitan, Kansas.

UTZ, ST. IDSEPH, MO. Breeder of high class jacks and jenneta Six servicesble jacks some 2-year-olds, jack collen mad jennets for sale; all gands colors. Residence phone. Bell South 702-4 rings, office; both phones south 125.



PRECISTRE ED
JACKS AT
FRIVANTE SALES.
L make a speciaty of
the large, heavy boned,
thick bodfed; well bred
high. 25 to select from,
Write for entalog. G. M. SCOTT. Route No. 2, Res. Missouri

### ANGUS CATTLE

PARKER PARRISH & CO.

HUDSON, KANSAS, Pure Blood Angus Cattle

Herd buffs: Japan Ito, Envoy 2d. Evener 2dt Jett's Hafe Lad. 400 in herd; Violet's best blood; can ship on Mo. Pac. Santa Fé or Rock Island. Stock for sale at all street.

80 Angus Bulls

OF SERVICEABLE AGE, Herd Headers and Range Bulls, Moof them by Champion Ito. Many

SUTTON FARM, Lawrence, Kan. 500 HEAD IN HERD.

### SCOTCH SHORTHORNS

Imported Ardlethan Mystery 300632 (85177) should go to head a first class herd. Cannot use him longer as I have so many only daughters. He is a show buil and sure. 5 of his yearling sons, all good. Prices right. Come and see them.

### ALFALFASHORTHORNS

Young stock for sale. Also Silver Laced Wyandotte eggs for sale, JOHN REGIER, R. 1, Whitewater, Kansas.

### POLLED DURHAM CATTLE

#### BELVEDERE X2712-195058

Son of the \$1,500 Grand Victor K1631 150365 heads my herd of Double Standard Polled Durhams. A few extra good, blocky-thick-fleshed young bulls for sale. Inspection invited. Farm adjoins town.

D. C. VAN NICE, Richland, Kansas.

### JERSEY CATTLE

### INSCOTT JERSEYS

Offers a few choice cows in mile and some bred helfers. Milk and butter records ac-

R. J. LINSCOTT, Molton, Manuae

### Jerseydale Stock Farm

Carthage, Mo.

Garthage, Mc.

I am offering some very choice buil calves sired by "Tulips Men Plaistr" 61933. out of richly bred imported cows. Calves range in age from three months to seven menths. If you are looking for "Golden Lad" blood you will find these calves close up: Price \$75 delivered to any part of: Kansas.

PHIL HANNUM, JR., Owner.

GOLDEN BULE JERSEY HERD Headed by Conert's Eminent by Eminent Russite; tracing to Golden Lad on sires, and out of the nated cow, Financial Queen, Thus dam of Conert's Eminent was the \$1000-cow Conert 2d by Gueonon's Golden Lad

JOHNSON & NORDSTROM, Clay Center, Kansas,

TO MAKE BOOM FOR WINTER P

26 HEAD REGISTERED COWS Forty head to select from; also a fav

J. B. SMITH, Beatrice, Nebraska

#### FINE JERSEYS FOR SALE.

I have ready for service three sons of Merry Maiden's Golden Lad and one son of Susanta Employer out of communication of Susans Eminent out of cows that will make two pounds of butter per day. I am also offering a few cows and helfers at reasonable prices. These are med to Oxford Mesterplece.

#### SHORTHORN CATTLE

### Tomson Shorthorns

Herd Bulls Barmpton Khight and Gallant Knight's Heir. A very choice lot of young bulls and heifers for sale: Several are full brothers or sisters to our grand champion heifer; New Year's Delight. Come and secour herd or write your wants.

TOMSON BROS., Dover, Kansas R. R. Station Willard, on R. I., 16 miles west of Topeks,

#### SHORTHORNS

Bulls, cowe and heifers for sale, nicely bred an good individuals, priced reason-able. Write or come and see my herd.

C. M. WHITE, Bushingtons Kan

NEW BUTTERGASK SHORTHORNS. NEW BUTTERGASK SHORTHORNS; Best of breeding and individuality, representing such families as Imp. Bessie 51st, Brawith Buds, Daybreaks and Floras for sale now. The champion bull at the last Mitchell Co, State-Wide Fair; a grand good bull; I year old; is related to all our cows or he would not be for sale, Write for description and price. WEALE BROS, Cawker City, Kan.

### Shorthorns

Carload good, big, strong buils, 8 to months old. Priced right,

C. W. Taytor, Enterprise, Kan.

R. R. station, Fearl, on Rock Island. ELM CROVE FARM.

Showthorn cattle and Percheron horses Write for description and prices. ISAAC NOVINGER & SONS Kirkmeithe, Missouri.

#### EVERGREEN HOME FARM

Miking Shorthorn cattle, bred horniess; Berkehire hogs: Oxforddown sheep. Bour-bon Red turkeys, Young breeding stock for sale; A herd of 35 bred Oxforddown ewes to go at a bargain if taken at once. Ad-

J. H. WALKER, Lathrop; Missourt

HARRY R. COFFER Breeder of HIGH CLASSED SHORTHORNS. Public Sale April 27, 1911,

### Shorthorn Cows and Heifers

Also a few Scotch and Scotch Topped lls. Reliable stock for sale at all times. blic sale February 21. S. B. AMCOATS, Clay Center, Kansas.

### RED POLLED CATTLE

COBURN HERD of Red Polled cattle and ercheron broses, Young stallions, bulls and Percheron hroses, heifers for sale:

Geo, Groemiller & Son, Pomona, Kan.

### Red Polled Cattle of both sexes for sale; prices reasonable. L. B. RESER, BIGELOW, KAN.

few choice young bulls for sale; also cows and helfers.

O. E. FORTER, Eldesado, Hansas.

### HEREFORD CATTLE

Two choice Hardard buils
10 to 12 months old street
prairie (12644), dem
prairie (usen (117345) by
Counseller ((1682); eight
choice heiters coming two
and three years old, same
lime breeding; prices reagood condition, Write or

HARBY V. BALDOCK, Wellington, Kansas.

Brookside Farm: Savannah, Mo., breeders of Hereford cattle: Herd headed by Hesoid 101st No. 162585 and Horace No. 300428, he by Beaumont. Young buils for sale. Mail orders given prompt attention, WARRIEN LANDERS, Savannak, Mo.

SPRING CREEK HEREFORDS.

Headed by Christy 234417, Frairie Donald by Heau Donald 7th, and Sir Morgan by Onward 18th. Cows of Anxiety 4th, Hesold, etc., breeding, including imp, animals. Over 100 head in herd. Few choice young buils and some good females for sale.

TOM WALLACE, Barnes, Kansas

#### HOLSTEIN CATTLE

SUNTLOWER HERD HOLSTEINS has an especially fine let of buil caives to choose from, 2 to 6 months old, ne service buils available at present. Send for Buil Cair Catalegue, to read it over will convince you that better breeding and quality cannot be procured elsewhere. Attractive prices will be made on several A. R. O. cows past middle age, but still at their best, all sound and right: F. S. SEARLE, Oskatosa, Kan.

HOLSTEINS FOR SALE. HOUSTEINS FOR SALE.

Bour very choice young buils and a few cows and heifers for sale, mostly sired by Prince Ormsby, no wowned by Nebraska agreentwrat College. Him dams on both sides. for four generations average 20 lbs.; he ims 30-lb. sisters, J. P. MAST, Screenion, Kansas.

WOODCREST HOLSTEIN FRIBSIANS.
Thirty-six: registered cows, helfers and hulls for sale. Some A. R. O. but all good On Rock Island, 30 miles east of St. Joseph. Mo., half mile from station.
S. W. COOKE & SON, Maysville, Mo.

MOLETEEN CATTLE—Young bulls of the famous Shadybrook family and some bull calves, This herd is headed by the celebrated Sir Johanna Colantha Fayne No. 42146. No females at present. Address M. E. MOGRE & CO., Cameres, Mo.

B. L. BEAN, Cameron, Mo., breder of thoroughbred Hoistein-Friesian cattle. A few young cows and helfers for sale; also u-few young Koundyke and Johanna butis; all choice individuals. Address B. L. Bean, Cameron, Me.

The Most Profitable Dairy Beeck,
Illustrated, descriptive booklets free, Holstein-Frieslan Agen of America,
F. L. HOUGHTON, Sec., 114 Heattlebore, Vt.

CUERNSEY GATTLE.

GUERNSEY CATELE FOR SALE Young, bulls by Eminence of Birchwood, 66E to 714 pound fat records, Stock guaranteed against uberculosis for 6 months after sate. Largest herd in Kansas, Farm near Rombury, Kam. and visitors welcome except. Sundays, FRETIERICE HOUGHFON, Galta, Kansas,

WILLOW BEANCH GUEENSEY KARM,
J. H. DUSTON, Fron...
Hamilton, Missouri.

Breeder of thoroughbred Guernsey cattle.
Herd headed by Tily's Major No. 8547.
Young builts for sale, among them Major.
Bonnie Boy No. 2307 and two yearlings of
the choicest breeding. Address.
J. H. DUSTON, Hamilton, Missouri.

GATTOWAY CATTLE.

### Capital View Galloways

A few choice young bulls sired by Imp. Campflower 3d of Stepford 30935 (\$407) and Meadow Lawn Medalist 23750. G. H. CLARK,

2101 Van Buren St., Topelin, Kan,

### AUCTEONEERS



H. R. LITTLE Live Stock Austroneer
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A close student of
men and methods:
with 20 years! experience as a breeder of

Shorthorns. E not into time devoted to auc-tion work. Reasonable charges for first-class service; Write or tele-phone:



Breeder and Trainer of Standard Breed Horses. Breeder of the large-type POLAND CHINA Hogs. Fosted on values and blood lines. Your business solicited. Special attention given to thoroughbred sales.

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and should you ever wish to attend our school in person amount paid on mail course will apply upon tuition here. Will hold next term April 2 at Oklahomat City. The largest school of the kind in the world, MISSOURI AUCTION SCHOOL, ORIGINOMA City, ORIG. Trenton, Mo. ORInhoma City, ORIN,

Oketo, Ram., will make pure bred stock or farm sales anywhere in Kansas or adjoining states; 15 years' experience; best of refer-ences furnished: Write or phone for dates

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Eine Steele Auctioneer;
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Am selling for the best cattle and hog breeders in the West. Terms very reasonable. Write or wire for dates, "Get Zaum, He Hnows How."

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Log many of the most successful

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Write or wire me for date, WELLINGTON, KAN,

W. C. CURPHEY LIVE STOCK AUCTIONEER

Write, phone or wire me for dates, Jas. W. Sparks, redigreed Live Stor

#### PIELD NOTES:

#### Larson's Hereford Sale Good

Larson's Hereford Sale Good

J. A. Larson's Hereford dispersion sale, held at the farm near Everest, Kan., attracted breeders from half, a dozen states. But the crowd was small on account of the extremely bad weather and almost impassible roads. The offering was one of the best and most uniform that has gone into any Kansas sale for years. It was fully appreciated by the limited number of buyers present, but the prices would undoubtedly have been better had the weather been such to insure a large attendance. A. B. Cook of Helens, Mont., was the heaviest buyer. He also topped the cow sale, Buying No. 24, a 7-year-old line bred Hessian cow with bull salf at foot by Heau Royal. Seventeen bulls brought \$2,490, average \$125.18; 61 head \$7,910; general average, \$125.87. Following is a list of leading sales:

No. BULLS.

Weich. Armstrong. T. Armstrong.
hn Paynter
B. Cook.
T. Armstrong.
E. Green.
H. Green.
Gook.
E. Weich.
E. Green.
H. Cook.
L. Slocum.
W. Hann.

W. C. Milligan, breeder of Poland Chinas at Clay Center, Kam., reports to Kanss, Farmer that his advertising has sold all of his spring boars and he changes his breed-er's card announcement. His hogs are do-ing splendidly and he has some fine fall pigstof both sexes for sale Write your wants and mention Kansas Farmer.

fieldman bought for me at F. M. Buch-heim's sale is a posseh. I am very much pleased with her."—Ira Romis Topeka, Kan.

Polands at Beloit, Kan., March

Polands at Beloit, Kan, March 4
One of the last opportunities of the season to buy good, useful Poland China bred sows will be at the Plicher & Logan sale to be held at Beloit; Kan, Saturday, March 4. C. H. Plicher of Glasco and E. C. Logan of Beloit have joined forces and will put their best saleable stuff into this sale, consulting the advertising which appears elsewhere, it will be seen that there is great variety of the very best breeding, and a look at the stock selected will convince any one that there is nothing lacking in is dividual merit. Both herds and their found central Kanass. This should be sufficient guarantee of the treatment visitors and buy ers will receive. Write at once for catalog which will give all information. Bids can this sent to Jesse Johnson representing this

### DLAND CHINAS

### POLAND CHINAS

#### SIGNER. SEARCHLIGHT

Kansas Live Stock History Does Not Give the Names of Two More Consistently Successful Animals Than These, Our Chief Herd Bull and Boar.

They and their assistant are the factor in the every-ay "make good" business practice which has given us mighty satisfactory business in

SHORTHORNS AND POLAND CHINAS,
Stock for sale at all times and prices reasonable. Look
for our sale dates and send for catalogue; each year better than the year before.

C. S. NEVIUS, Chiles, Miami County, Kansas.



E MORTONS Herd headed by Equipment 5153°C by Impudence. For quick sale, 20 summer and fall glits sired by a son of ler 2d, bred for August farrow. Also 3 fall boars. All representations guaranthe MORTONS, Tampa, Kansas, Marion County.

We still have a few extra good spring boars for immediate sale, sired by First Quality RING BOARSand Chief. They will be priced right. Can also spare a few gilts, bred and open. YOUNG & KIMMERLING, Glasco, Kansas.

IG TYPE POLAND CHINA PIGS.

Bexes, March and April farrow, sired

Metal M, 54349 and Success 53651.

boned and strong, Strictly big type,

ble prices.

E. BOWSER, Abilene, Kansas, RGE TYPE POLAND CHINAS

Headed by Big Hadley, Long John John Ex. Young stock for sale at A few choice Hadley boars. LES Z. BAKER, Butler, Missouri, ING DARKNESS No. 149999

hy herd of RICHLY BRED FOLAND SOWS. I have a few choice glits sows bred to him for sale. A nice of the source of t MILLER, St. John, Kansas.

- BRED GILTS - 18

bred to A. L. Hadley; \$25 to \$40. A. L. ALBRIGHT, Waterville, Kansas ERS BIG KIND POLANDS

by Megul's Monarch 45958 and th 39068. Bred sow sale Feb. 16. Rock cockerels for sale. HARTER, Westmoreland, Kansas,

Type Poland China Gilts very choice ones sired by the great gain and safe in pig to a grandson l Look. \$30 each if soid soon. B. WRIPPLE, Fall City, Neb.

s Great Big Poland Chinas d with quality. The big litter sort, Bred sow sale Feb. 9. GRANER, Lancaster, Konsas.

G concluded not to hold a public will offer 25 well bred, growthy d to the best and highest priced e young boars out this year; six ear-old sows bred to Grand Look cross produced my best sellers in sale. If you want the best that one or write. Special prices on a none deal.

Bugg, Hamilton, Missourl.

OLAND CHINAS BRED SOWS AND GILTS, rke, grand champion at the Okla-tie Fair, 1908, heads the herd. Spe-es of a few bred sows and gilts, rees 'rnished when hogs are de-

CHAMBERS, Oswego, Kansas.

ONED POLAND CHINAS ce Bears for sale that are first ierd headers, they are big and and guaranteed. Write at once. V. A. BAKER, Butler, Mo.

aview Breeding Farm OND OF OUR FOREFATHERS. the big-boned spotted Polands. registered herd of original spotted hinas on earth. Bred sow sale ULENER, Box K, Jamesport, Mo.

A HERD of pure bred Poland Chi-Duroc Jerseys, Boars all sold, but littled number of Poland China lits bred for early farrow. These ones, priced right. Farm 7 miles Simpson, Kan. W. H. Sales.

E LAWN POLAND CHINAS. Darkness by Meddler 2d, assisted grass Meddler by Meddler 2d head of richly bred Poland China sows. Ing gilts by On the Spot for sale,

NDERSCHEID, R. 3, St. John, Kan. BROOD SOW SALE. old at present except a few rood sow sale Feb. 15. Send arly, as there will be some

og carly, as there will od gilts, as there Will CCKHAM, Pawnee City, Nebraska.

E FALL PIGS ing boars sold. Some fine fall pigs, for sa. Write your wants. MILLY IN, Clay Center, Kansas.

LAREDO HERD has, headed by Impudence Style F. R.'s Meddler by Meddler for ill gilts bred for fall farrow and W. McKAY, Laredo, Mo.

LARGE TYPE POLANDS.

Toulon Prince 50559 heads herd. Bred glits for sale; also some good August pigs, either sex. L. E. KLEIN, Zeandale, Kan.

BIG TYPE POLAND CHINAS, Gold Standard by Chief Gold Dust in service. Sows represent the most noted big-type strains. Choice lot of spring pigs. WALTER HILDWEIN, Fairview, Kansas.

FAIRVIEW POLAND CHINAS

FOR SALE—#0 extra fall pigs, both sexes, with size and quality; priced to sell; descriptions guaranteed. Write us, P. L. WARE & SON, Paola, Kansas,

SULLIVAN COUNTY HERD. Poland Chinas; 200 head in herd; best blood known to the breed. For sale, eight choice fall glits; also eight Collie pups. FULLER BROS., Humphries, Missouri.

NINETY HEAD FALL PIGS FOR SALE. Sired by the famous Hadley Boy No. 48009, Kemember our bred sow sale Feb. 10, 1911, and send for catalog. GEO, M. HULL, R. 1. Garnett, Kansas.

Gronniger's Big Polands Lead

The blood of the biggest and best. A few choice fall boars and gilts ready to ship. Bred sow sale February 23, 1911. HERMAN GRONNIGER & SONS, Bendena, Kansas.

HICKORY GROVE FARM, the home of the big boned black and spotted Poland China hogs, the farmers' hog, and the kind that makes the most pork. Choice males for sale. Address

GEORGE & OLLIE TAYLOR, Cameron, Me. GEO. SMITH'S BIG POLANDS—Headed by Mammoth Hadley, the best son of Big Hadley. Sows, daughters of King Do Do, Johnson's Chief, Gold Metal, First Quality, Chief Gold Dust. 5 litters by Grand Model by Grand Chief. 100 choice pigs doing well, George W. Smith, Burchard, Neb.

EXPANSIVE 34723.

The 1000-lb, boar assisted by Sampson Chief and Big Victor 2d head my herd of high class, big, smooth Poland Chinas. A few choice bred sows and gilts for sale. Write your wants now.

H. B. WALTER, Effingham, Kansas.

12-VOTER HERD BOARS-12 A spring yearling by Voter and out of Queen Wonder; good individual; price \$75. 12 top spring boars by Voter, \$25 to \$40, 20 Voter glits cheap if sold in bunches. Dams in herd represent best families.

A. & P. SCHMITZ, Alma, Kansas.

SPRING MALES AND GILIS. Now is the time to buy your breeding stock while the best is yet unsold. My pigs are strong and thrifty; are well bred and have been fed with an eye to future usefulness. Write me now. Address

C. H. TILLQUIST, Osborne, Kansas.

POLAND CHINA HOGS.

Mastodon Poland China hogs, the big-boned type that will weigh when mature 800 to 1,000 pounds. Mastodon Price leads this herd. Mastodon Price sired by A Won-der 107356. a hog weighing in full flesh 1,200 pounds. If you want the right kind, they are at Quality Ridge Farm. A num-ber of bred glits for sale; all choice individ-uals. Phone me at Dearborn. Mo. Railroad station Newmarket, Mo. CLARENCE DEAN. R. 1, Weston, Missouri.

WALBRIDGE POLANDS Quality

L. C. Walbridge, Russell, Kansas

POLAND CHINA HOGS FOR SALE. Eplendid June and July gilts bred for June d July farrow priced for quick sale as I ed the room. Special attention to mail Let me book your orders for spring. E. MULLER, Hamilton, Mo.

HAMPSHIRE HOGS. All ages, both sexes, best strains, prize blood. Prices right.

C. W. WEISENBAUM, Altamont, Kansas.

OHIO HERD OF MULE-FOOTED HOGS. HERD OF MULE-FOOTED HOGS. Stock of all ages for sale, sired by five big prize-winning boars and out of big matured and prolific sows, the equal of any breed. I have the largest herd in the land of this vigorous and healthy breed. JOHN H. DUNLAP, Box P, Williamsport, Ohio.

### POLAND CHINAS

DEER PARK STOCK FARM.

Richly bred Poland Chinas headed by the great Impudence E. L. and Noble Chief by Nobleman, Choice lot of spring pigs for sale by Impudence E. L. and Dawley's S. P.

D. A. WOLFERSPERGER, Council Grove, Kansas,

POLAND CHINAS WITH SIZE.

Some very choice fall pigs weighing from 100 to 125 pounds, sired by Pawnee Look, the best boar Looks Grand ever sired. The hog that suits the big type breeder and farmer. My motto: "More hog and less hot air." F. F. Oerly, Oregon, Mo.

GOLD METAL 43343

By Bell Metal 40388 heads my herd of big type Polands. Breeding stock for sale at all times. Prices right, JOHN C. HALDERMAN, Burchard, Neb.

### POLAND CHINAS

#### PRAIRIE VIEW HERD.

Hamilton, Missouri.

Breeder of Big Type Foland China Hogs and Buff Orpington chickens. Address
F. E. MULLER, R. 4, Hamilton, Missouri.

BIG POLAND CHINA HOGS.

Limestone Farm Herd, Clarksville, Mo., M. Gottswiller, Prop., breeder of big Poland Hogs, Shropshire sheep, Buff Orpingtons and Single Comb Brown Leghorn chickens, Pekin and Indian Runner ducks and Chinese geese. Breeding stock for sale.

STRYKER BROS, HERD POLAND CHINAS,

The greatest show and breeding herd in the West. Write your wants and they will please you. Buy the best and make the most. They breed the kind that win; the kind that you want. Address
STRYKER BROS., Fredonia, Kan.

### **DUROC JERSEYS**

DUROC JERSEYS

RIVER BEND HERD DUROCS.

Headed by Fitch's Kant by Kant Be Beat and out of a son by Ohio Chief, one of the best individuals and breeders in the state. Let me know your wants. W. T. FITCH, Minneapolis, Kansas.

SPRING BOARS AND GILTS. Choice Duroc Jersey gilts bred for June farrow; also some fall pigs of either sex The kind that grow big. Write me your wants.

W. C. WHITNEY, Agra, Kansas.

SPRINGBANK DUROC JERSEYS. Headed by W. H.'s Col., first prize junior yearling boar Hutchinson State Fair, 1908, assisted by Chief Orion, third prize aged

boar.
Sow Sale—Ten tried sows by Chief Orion bred to W. H.'s Col. Come and see them.

W. H. WILLIAMSON,

Raymond, Kansas.

### **50 FALL DUROC JERSEY PIGS 50**

Descendants of the great Col. family. Both sexes \$25 to \$35 each. CHAPIN & NORDSTROM, Green, Kan.

WOODLAWN DUROC JERSEYS.

Headed by Woodlawn Prince 53343.
Sows of Ohio Chief, Orion, Topnotcher and other good families. Choice year-ling gilts for sale, bred for March and April farrow, Also a few open gilts.
ROY H. OTT & BRO., Concordis, Kan.

HOTEL GREENWOOD HERD. Headed by Stith's Commadora by Top Commadora, Bred sows and glits for sale; 200 head in herd. A choice lot of fall bear and glits. CHAS, STITH, Eureka, Kan.

CROW'S DUROC JERSEYS.

Herd headed by Climax Wonder, he by Missouri Wonder, 100 head to select from Prices reasonable. The electric car runs within three blocks of my farm. Come and see my herd at any time.

W. R. CROW, Hutchinson, Kansas.

CHOICE DUROC BOARS FOR SALE.

Good individual descendants of Orion, Val-y Chief, Farmer Burns, etc. Reasonable rices. O A THLER, Pawnee City, Nobraska.

BRED SOW SALE MARCH 8,
12 tried sows and 38 choice gilts to sell
Send for catalog.
L. C. WOOLEN & SON,
Breeders of Pure Bred Duroc Jersey Hogs,
Stansberry, Mo.

### Greenwood Herd Durocs

FOR SALE—Choice lot tried sows and gilts, sired by Dandy Duke and Tatarrax Model, bred to Model Duroc, Greenwood Chief and Chief Orion. All guaranteed; priced \$30 to \$50. If you want good hogs R. D. MARTIN & SONS, Eureka, Kansas.

All sired by Helen's Wonder (a son of Red Wonder and Helen Blazes 21st (and S. D.'s Inventor (a son of Inventor). Many of these gilts are out of May Boy sows. They are bred for early March and April farrow to one of the above mentioned boars or Crimson Model, a fancy son of Nebraska Wonder. They combine quality and scale and will please.

J. F. STODDER, Burden, Cowley County, Kansas.

DUROC JERSEYS.

Bred sow sale Feb. 22. Ten tried sows, 40 spring gilts; all pure bred and the big, smooth kind.

JASPER AULDRIDGE & SON,
Pattonsburg, Missouri.

#### DUROC JERSEY BOARS

A few good ones for quick sale by a good son of King of Cols 2d; also bred sows and gilts. Three choice Jersey bulls and few cows and heiters,

S. S. SMITH, Clay Center, Kansas.

DUROC FALL PIGS, EITHER SEX. Fairs, not related, for sale reasonable. Fed sow sale January 24. Write at once for catalog.

FRANK VRTISKE, Pawnee City, Neb.

JEWELL COUNTY HERD.

Headed by Bonney K. 74075, all prominent blood lines represented. Sow sale Feb. 1, 1911. W. E. MONASMITH, Formosa, Kansas.

#### ANDERSON HIGH CLASS DUROGS.

Choice lot of fall pigs of the best of breeding for sale at very reasonable prices. For low prices on good stock, address

O. ANDERSON, Manhattan, Kansas.

#### OHIO IMPROVED CHESTERS

### MOSSE OF KANSAS

Kansas Herd of Improved Chester Whites. Grand Champion Sow Kansas State Fair. ABTHUR MOSSE, R. D. 5, Leavenworth, Kansas.

MAPLE LEAF O. I. C's.

The best blood lines represented in this herd. When in need of quality write. R. W. GAGE, B. D. 5, Garnett, Kansas,

### BERKSHIRES

LARGE ENGLISH BERKSHIRES

Breeding Stock for Sale. H. U. McCURDY & CO., Hutchinson, Kansas.

BERKSHIRES-OVER 260 HEAD

To select from. Choice boars and females of various ages. A nice lot of fall pigs priced reasonable. We guarantee satisfaction.

LEON A. WATTE, Winfield, Kan.

FIELD NOTES.

Fitch's Duroc Sale. Fitch's Duroc Sale.

The sale held on February 16 by W. T. Fitch at his farm near Minneapolis, Kan, was a success. The rain was coming down in streams and only about 30 men were present, but Col, John Brennan disposed of the 36 head in short order, making an average of \$27.

No.

1. Frank Beach, Minneapolis, Kan. \$55.00

2. H. E. Tate, Bennington, Kan. . 48.00

Frank Beach, Minneapolis, Kan. \$55.00

H. E. Tate, Bennington, Kan. 48.00

H. Heckley, Minneapolis. 49.00

Applebaugh Bros., Minneapolis. 54.00

Thos. Kirkland, Minneapolis. 54.00

Arthur A. Patterson, Elisworth 54.00

Applebaugh Bros. 32.00

H. Hibler, Minneapolis. 39.00

H. E. Pierce, Minneapolis. 40.00

Leon Carter, Asherville. 43.00

H. E. Pierce. 41.00

H. E. Pierce. 40.00

Thomas Kirkland 42.00 12. H. E. Pierce. 41,00
14. Thomas Kirkland 42,00
15. H. E. Pierce. 41,00
16. J. W. Thompson, Tescott 40,00
17. H. E. Pierce. 41,00
18. H. E. Tale, Minneapolis 43,00
19. H. E. Pierce. 22,00
20. H. E. Pierce. 23,00
21. Leon Carter. 41,00
29. H. E. Pierce. 41,00
30. H. E. Pierce. 39,00
31. J. W. Thompson 42,00

Boyle's Duroc Sale,
The Duroc sale of L. E. Boyle at his farm joining Lindsey, Kan., on February 17, was held under adverse circumstances. The rain of the previous day was still coming down in terrents and at one time it was announced the sale would be postponed, but was reconsidered and the sale was held. Forty head was sold at an average of \$35, but it could have easily been made more than \$40 with any kind of a good day.

No.

1. W. T. Fitch

"My little advertising card in the Kansas Farmer sold every Rose Comb Rhode Island Red cockerel I had to offer. I now have a few pullets of the same breed to sell," said J. C. David of Topeka. They all say so who advertise in the Kansas Farmer.

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## BARGAINS IN LAND

### For Sale on Best of Terms

160 acre improved farm 25 miles from Kansas City, 1½ miles from railway town, 6 miles east Spring Hill, Johnson county, Kansas, all smooth and tillable; 6 room 2-story frame house, barn, double cribs and granary, good well and outbuildings, nicely located, rented for cash for 1911. Price \$75 per acre, \$4600 cash, balance 5 per cent annual interest; can run 15 years; any or all can be paid any time.

U. S. REALTY CO., Spring Hill, Kansas.

### COME TO FORD COUNTY AND GET RICH

Come to the famous Ford County Wheat Belt, where two crops pay for the land. If I do not show you that this is true I'll pay your fare for the round trip. Best of climate, soil and water. Descriptive price list upon application.

G. L. PAINTER & CO., Dodge City, Kansas.

### A GOOD COMBINATION SAY Buy a farm or build an agency. Buy a farm or build an agency. Agricola, Kan. FARM

240 acres, 125 acres in a high state of cultivation, 110 acres in pasture, 30 acres alfalfa, fenced and cross fenced, 400 rods of 43-inch woven wire, watered by two fine springs producing a heavy flow of water at all times, 5 acres of fine orenard, consisting of all kinds of fruit, 5 room cottage, horse barn, holds 12 horses, hay mow, cattle barn 40x60, granary and corn crib, etc.; 1½ miles to school, 3½ miles to two railroad towns in Kingman county, Kansas. Price \$10,000.

\$10,000. EDWIN TAYLOR REALTY CO., 107 South Main Street, Wichlta, Kansas.

86 ACRES, ½ cultivated, close Ry, market, 7 room house, good barn, water, fencing, \$2500. Foster Bros., Independence, Kan,

#### 1120 ACRE COMBINATION RANCH.

25 head horses and coits above average, and one registered Percheron stallion. Write for particulars. 80 acres first-class alfalfa land in famous Artesian Valley at a great bargain. WM. MILLER, Meade, Kan.

IF YOU ARE INTERESTED IN CENTRAL KANSAS, WESTERN KANSAS OR COLOBADO LAND FOR A HOME OR INVESTMENT, STATE YOUR CHOICE TO C. C. WALLACE, BROOKVILLE, KANSAS.

YOU'LL LIKE LINN COUNTY, KAN. we have abundant coal, wood, natural gas and good water. The land raises magnificent crops of alfalfa, timothy, clover, bluegrass, eats, corn and wheat. R. F. D. and phone at your door. Price \$20 to \$80 per acre. List free. A. E. ROOT, Pleasanton, Kan.

FOR SALE—General merchandise, small own: excellent opportunity for live man. dddress State Bank of Cummings, Cum-

BUY OF OWNER - SAVE COMMISSION. A nice valley farm of 320 a., 3 mi. of Fredonia, county seat, best gas town in state, all tillable, 110 a. in cultivation, balance in meadew and pasture, good 5 room house, big barn and other improvements, free gas, also income from gas wells on farm, telephone and R. F. D. Easy terms. Buy of owner and save commission. A snap at 42.50. Must sell. Write

LOCK BOX 807, Fredonia, Kansas,

IF YOU MEAN BUSINESS and have real estate and merchandise of any kind for sale and exchange, and are willing to pay a commission should I make you a deal, write me at once of what you have and desire I have several very attractive propositions to offer you for a home or investment; am doing a general exchange business. Carl G. Anderson, Athol, Smith Co., Kansas.

#### READ THIS BARGAIN

160, Anderson county, Kansas, joining small town, 120 cult., 30 timothy and clover, 7 room house, barn, etc. Price \$8,006. 100, 2½ miles of Welda. Kan.; 60 cult., balance meadow; all tillable; no buildings, \$5600.

SPOHN BROS., Garnett, Kansas

MARSHALL CO., KANSAS, LAND - 480 arcs, 3 miles from town, 160 acres under plow, 70 acres in alfalfa, balance good limestone subsoil pasture; 3 room house, 10 horse barn, stone cattle barn 30x140, some timber, and elegant spring. No better stock farm in the county; good orchard. \$55 per acre. Terms to suit purchaser. E. F. Dewey, Blue Rapids, Kan.

#### LIVE AGENT WANTED

in your locality to assist in selling corn, wheat and alfalfa land. We own thousands of acres in Pawnee and adjoining counties, Write for proposition on our own ranches,

FRIZELL & ELY, Larned, Kansas,

ANDERSON COUNTY—100 acres, 60 acres in cultivation, balance pasture and mowland, fine soil, no rock. A new 9-room 2-story house, cement cellar and walks. Good barn and other improvements; half mile to R. R. town. \$65 per acre. A snap. Write for full description.

GEORGE W. ILER & SON, Garnett, Kan,

THE BEST TOWN TO LIVE IN.

If you would like to live in the most beautiful city in the West, with unsurpassed education, business and religious advantages, in a city clean, progressive, where real estate values are low, but steadily advancing, where living expenses are reasonable, a city with natural gas at lowest price, address the

SECRETARY of the COMMERCIAL CLUB, Topeka, Kansas.

#### A BIG SNAP.

,840 a, 5½ miles of Spearville, 300 a, creek bottom, first class alfalfa land, 160 a. in cultivation, 500 a, farm land, balance pasture, fenced, some timber, creek runs through one corner. Price \$14 per a.; \$4000 cash, balance good terms.

STINSON & SHELDON, Spearville, Kansas.

WHAT have you to trade for lands or city property? Hale, Coffeyville, Kan.

LEAVENWORTH county farms. Send for list. J. C. Lanning & Co., Tonganoxie, Kan.

COME to Butler Co., Kan., for a home, 40 to 720 a., prices right. Benton Land Co., Benton, Kan.

SOME splendid bargains in Famous San Luis Valley. Cline Land Co., La Harpe, Kan.

GET OUR BOOK OF 500 FARMS and properties everywhere to trade. Graham Bros., Eldorado, Kan.

IMPROVED FARMS in S. W. Kansas and N. W. Oklahoma, \$10 to \$25 per acre. Write Moore & Falls, Liberal, Kan.

FOR SALE—Eastern Kansas black prairie corn, alfalfa and clover farms. Some ex-changes. Write today for free list and map. G. T. KINSEY, LeRoy, Kan.

you want a bargain write for free list of Anderson county farms. You want a trade list with us. Holcomb Realty Co., Garnett, Kan.

#### NESS COUNTY, KANSAS.

If you want wheat land, if you want alfalfa land, if you want pasture land, if you want improved land, I've got it. If you will write me just what you want, I will find it for you at prices that can't be discounted.

J. G. COLLINS, Ness City, Kansas.

SEVERAL good farms to trade for stocks of merchandise and land to exchange for city property. Land in the fertile Guit Coast of Texas, \$20 per acre, on payments; fine climate and farmers get rich in a few years. We go down twice a month. Write me for particulars, Henry G. Parsons, Lawrence, Kan.

#### 140 ACRES JOHNSON CO., KAN.

Every foot tillable;45 acres timothy and clover, 10 acres in wheat, 30 acres English blue grass; never falling spang; close to school; only 2% miles to railroad and 33 miles to Kansas City.

Nothing finer in Eastern Kansas, Immediate possession, Price \$100.00 per acre.

C. H. CHANEY, Spring Hill, Kansas.

EASTERN KANSAS FARM BARGAINS. 80 acres, 2 miles from Osage City, 40 acres under cultivation, 1 acre orchard, balance native grass, 5 room house, good cellar, barn for 6 horses with loft, corn crib, 2 hen houses, and other out buildings, plenty of good water, close to school, R. F. D and phone, price \$4,000.

J. C. RAPP & CO., Osage City, Kas.

level second bottom, 4 miles from county seat, 100 acres under plow, 15 acres alfalfa, running water fed by spring, 5 room house, barn for 6 horses, large hay shed and other good improvements; good bearing orchard, Price \$65 \_2\*r acre: easy terms, Joseph D. Ryan, Abilene, Kan,

IMPROVED Anderson county corn, wheat, oats and alfalfa farms at \$40 to \$60 per acre. Write for our free list. Also good exchange propositions. Rice-Daniel Land Co., Garnett, Kan.

### WALLACE COUNTY

320 acres, raw land. 4 miles south of Sharon Springs, Kansas. \$10 per acre. Address Box 15, R. F. D. I, Bushton, Kan.

POULTRY RANCH FOR SALE.
One of the best poultry ranches in the state. Two acres adjoining Washburn college campus, 9-room house, cellar, cistern, well water, barn. Best poultry house in county. Fruit and ornamental trees. Price \$4,000, half on time if desired. No trades. POULTRYMAN, Kansas Farmer Office.

-CHOICE DICKINSON AND CLAY CO. FARMS—100

80 acres 3 miles from town, 70 a. under plow, alfalfa land, 20 pasture and meadow, 5 room house, good well, barn and other buildings, \$200C cash; rest to suit; 25 a wheat included, Write for list, J. J. Bishop, Waltefield, Ken

### \* NEAR GULF COAST REGION

On the Kensas City Southern R. R. at Pickering, Vernon Parish, La.

Lands that produce big crops.

A natural stock, dairy, and poultry country. Forages grown even in winter. Soil especially adapted to early truck, truits, and great variety of crops. Good markets. Farm buildings not costly; lumber plentiful. High altitude, 50 inches annual rainfall, perfect drainage, pure water. Invigorating and healthy climate. Write for free booklet.

J. D. LABRIE, General Land Agent. 568 Keith & Perry Bldg., Kansas City, Mo.

56 BUSHEIS good alfalfa seed raised in Rush county sacked and delivered f. o. b. LaCrosse for \$9 bu. Jas. II, Little, LaCrosse, Kunsas.

EASTERN KANSAS—We have farms \$45 o \$65 per acre; possession if sold by March RICHMOND LAND CO., Richmond, Kan.

NEW YORK FARMS.
Well improved and for sate now at \$40 to \$60 per acre; grow biggest and best standard crops. For free select list ask McBurney, Stocking & Co., 279 Dearborn St., Chicago, Ill. No trades.

### ORN!

Will make 65 bu. to the acre on every acre of this 160 acres of rich, black, limestone soil. No rocks. Big, fine house and barn, beatiful location, 1½ miles of town. Never falling stock water. No better farm in Kansas. \$60 per acre.

B. H. DUNBAR. Tyro, Kansas.

### CAN YOU BEAT THIS?

120 acres, S miles to town, 8 miles from Parsons, new 5-room house, new barn, land lays just rolling enough to drain, fenced with hog wire on three sides, nearly all timothy and clover; some native pasture. This is a bargain at 45 per acre.

A. P. ROSA,

Galesburg, Neosho County, Kansas.

FINE HOME, 48 a., one mile of this city, about 38 a. now in cultivation, bal, pasture, 6 room house, new barn 34x60 and hay loft two volls and mill and other outbuildings; good orchard and all second bottom land, Priced to sell at \$5,500 cash. E. F. Dewey, Blue Rapids, Kun.

#### EXCHANGE

We have just completed a contract whereby we have exclusive agency for many desirable farms in Decatur county, Kansas, All smooth, good wheat land, at desirable prices. Can be traded for eastern Kansas land. If interested in securing lands in western Kansas at prices vo low you can afford to hold for advance in value, here is your opportunity.

GEO, M. NOBLE, JR.,
With Geo, M. Noble & Co.,
435 Kansas Ave., Topeka, Kansas.

YOU CAN'T BEAT IT.

160 acres, level, sub-irrigated land, fenced, 100 a. in wheat, ½ goes; best in county; 60 mow land; all can be farmed; half mile to school; 3 miles to trading point; on R. F. D. and phone line; first class for investment or a home. Price \$8,000; terms. All new land. Write

BROWN, GRANT & WALTER, Kingman, Kansas. YOU CAN'T BEAT IT.

### GRASS LAND FOR SALE

\$20 a. pasture, 7 miles of Eskridge, well fenced, fine water, all tiliable except 20 a. Price \$9,000; terms. Also 640 a. 3 miles of Eskridge; fine pasture. Only \$24.

JOE RADCLIFF, WITH

RODGERS, DAVIS & CO., 110 W. 6th St., Topeka.

FOR SALE—193 a., 6 mi, Garnett, 3 mi. Haskell, on Mo, Pac. R., R., 120 a. valley and slope land in cult., balance rough pasture with limestone rock on 1-3 of it, well fenced and cross fenced, new 6 r. house; splendid barn, 32x42; 2 good wells; family orchard. A snap at \$5,500. New list free. SEWELL LAND CO.. Garnett, Kan.

#### FOR SALE.

At invoice, a dandy butcher shop in live town of 4,000; splendid patronage; two other shops; will take part trade. Address

BREMYER & BRUBAKER,

McPherson, Kansas.

#### ARKANSAS LAND.

MISSISSIPPI COUNTY, ARK., LOCATED in the great St, Francis Valley, the most fertile and productive land in the world; produces abundantly, corn, cotton, alfalfa and red clover and pays a cash rent of 10 per cent on the investment; descriptive booklet mailed free on application. The Blytheville Realty Co4, Blytheville Ark.

When writing advertisers please mention Kansas Farmer.

### 44 Bushels to the Acre

is a heavy yield, but that's what John Kennedy of Edmonton, Alberta, Western Canada, got from 40 acres of Spring Wheat in 1910. Reports from other districts in that province showed other excellent results—such as 4,000 bushels of wheat from 120 acres, or 33% bushels per acre. 25, 30 and 40 bushel yields were numerous. As high as 132 bushels of oats to the acre were threshed from Alberta fields.

THE SILVER CUP at the recent Spokane Fair was availed at the black Government.

THE SILVER CUP
at the recent Spokane Fair was
awarded to the Alberta Government
for its exhibit of grains, grasse and vegotables, Reports of excellent yields for 1910
come also from Saskatchewan and Manitoba
in Western Canada.
Free Homesteads of 160 acres,
and adjoining pre-emptions of 160
acres (at \$3 per acre), are to be had
in the choicest districts.
Schools convenient, climate excellent, soil of the very best, rallways close at hand, building lumber
cheap, fuel easy to get and reasonable in price, water easily procured,
mixed farming a success.
Write as to best place for estiment, settiers low raisway rates, pamphlet "Last Best
West" and other information, to Sapt. of Immig., Ottawa, Can., or to Can. Gov'tagt.

J. S. CRAWFORD.

J. S. CRAWFORD, 125 West 9th Street Kansas City, Mo.

### Wanted To Sell

I have moved to Topeka and want to my Trego Co, land. 320 acres imprevery foot fine farm land and my single every foot fine farm land and my single the wheat goes with the farm, Price \$22.50 per acre. The biggest bargar Trego Co. Call on or write

R. H. BURNS,

106½ West Fifth Street, Topeka, Kn

#### ONE-TENTH - CASH - BALANCE EASY

Business and residence lots in Plats \$12.50 to \$50 Rapidly growing cly in southwestern Kansas. Populatia should double in a year. Modern in rovements, electric lights, telephona cement valks, main line railway, et Euy now and get benefit of early spring advance in price. Send in plat today and get early choice.

JOHN W. BAUGHMAN, Plains, Kensas.

#### OKLAHOMA LAND

#### GET A HOME.

and 5 miles of R. R. mand 5 miles of county seat, 10 a, inc vation. 40 a, pasture, 10 a, mow land or chard, 5 a, alfaifa, good 6 room he small barn and granaries, all fenced, it wells of water, fine grape vineyard, k to school, farm drains well. Price il immediate possession. One-half can handle this. Write for our land list, BATTEN REALTY CO., Medford, Oklahoma.

IMPROVED corn, clover and blue farms 48 miles south Kansas City, 19 \$75 per acre. Jot M. Wilson & Son, is sonville, Mo.

### COLORADO LAND

KIOWA COUNTY, COLORADO, corn, wheat and alfalfa lands is to Homestead relinquishments \$250 up. No and copy of the Homestead Laws sent A few 160-acre homestead tracts a prospective irrigation yet, THE WEST REALTY CO., Eads, Colo.

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#### LOWER PECOS VALLE IRRIGATED LAND

IRRIGATED LAND
In West Texas is absolutely the best in tion for safe and profitable investment and the safe and profitable investment and a yearly income of \$3000 to income and a yearly income of \$3000 to income and a yearly income of \$3000 to income and the present values will double and treat price within two years. We own or to the sale of the best dependable infolunds which we can sell in tracts to significantly and the part of the safe of the best dependable infolunds which we can sell in tracts to significant the following the safe of the best dependable infolunds of artesian or shallow numpire than a safe to \$100 per acre, water rights paid, on easy terms, or we can supply those of artesian or shallow numpire lands at \$5 to \$100 per acre. For professioness and all the year climate the valley is unsurpassed. Let us know years and we will supply detailed in the tion. Address

THE HEATH COMPANY, 100 West Seventh St., Topeka, Kal

### FIELD NOTES.

Arthur Mosse, Route 5, Leavers Kan., is one of the best known breeds O. I. C swine in the West. He has good by his careful methods of skand breeding and is always on the for new blood of the right kind. I Fautz sale held at Pleasant Ilill, Maweek Mr. Mosse purchased a bred sy which he paid \$77.50, white the sale which he paid \$77.50, white the sale nose was \$47.70. This indicates that Mosse got about the best thing in the fering. The white hogs are sure makers and Mosse has the best.

Currie Windmill Co., Topeka, Kan.
Gentlemen—Find enclosed balance of mill. Have all in working order and with the Currie mill and were I to of dozen they would be the Currie truly,

#### Killing Gophers.

Killing Gophers.

Every western farmer suffers loss year through gopher depredations. The for many farms runs into a consideration of the loss of the following saved by killing the gophers.

Buccessfully done with a proper agest successfully done with a proper agest of the following successfully done with a proper agest and write for their booklet.

### Rambler New Catalog.

Rambler New Catalog.

Kansas Farmer has received one of new 1911 Rambler automobile catalog is a treat to read this wonderfully in and to note by its most excellent in the construction, principles of tions the construction, principles of tions and finish of motor vehicles takes a half hour to read and stort takes a half hour to read and stort ambler catalog will have profiled it Rambler catalog will have profiled in a Rambler car. It is a satisfaction a Rambler car. It is a satisfaction is a live of the catalog is about automobiles. The catalog is about automobiles. The catalog is about automobiles. The catalog is all of cur readers who will will all of cur readers who will will store writing mention Kansas Farnier.

### RANKIA

PEACHES AND CREAM" IMPORTED STALLIONS AND MARES ARE SWELL SHOW YARD ATTRACTIONS" FULLY ACCLIMATED. THEY ARE HE "CLASSIEST" BUNCH OF BIG "BLACK AND GRAY BOYS"—WITH EXHE "GLASSIEST" BUNCH OF BIG "BLACK AND GRAY BOYS"—WITH EXHA BIG BONE AND MORE 2,000 TO 2,500-POUND STALLIONS THAN ANY ROPORTER IN UNITED STATES.—THAT'S WHY LAMS, THE "KING BEEP" ORSE MAN—SOLD DOUBLE THE HORSES IN JANUARY, 1911, AS IN ANY LEAR IN 29 YEARS. THEY ARE "EYEOPENERS"—BUSINESS PROPOSITIONS"—THAT MAKE THE WHEELS WORK" UNDER A "BUYER'S HAT" LOOLLY DIMPLES"—LAMS HAS 50 PRIZE WINNERS IN HIS BARNS ROM PARIS-BRUSSELS AND EUROPEAN "HORSE SHOWS"—IAMS "HYPOTIZES" BUYERS WITH "TOPNOTCHERS" AT "BARGAIN COUNTER RICES"—MAKES HORSEMEN AND WOMEN

### "Sit Up and Smile Sweetly"

ND SING "IAMS SONG"—"IKEY BOY" BUY "BLACK AND GRAY BOYS" F IAMS—THE "SQUARE DEAL" HORSEMAN.—"WALTU ME AROUND GAIN, IKEY BOY"—AND BUY A STALLION AND MARE TODAY OF IAMS AND SAVE \$300.00. IAMS IS A "BIG FLY IN THE OINTMENT"—IN THE ORSE WORLD—HE MAKES BUYERS WEAR A "\$1,000.00 SMILE" AND UY A "TOP NOTCHER" AT LET "LIVE PRICES."

OWING TO BAD CROPS—BIG RAINS—CLOSE MONEY—IAMS' CASH AND YEARS' SUCCESSFUL EXPERIENCE—HE BOUGHT AND IS SELLING ARGER AND BETTER HORSES THAN EVER.—"MAMMA"—IAMS IS A HONEY SAVER"—"A HOT ADVERTISER"—BUT "HE HAS THE GOODS"—ELLS THE HORSES AT HIS HOME BARNS ONLY. BUYERS GET "ALL IDDLEMEN'S PROFITS."

### IAMS' HAS 20---PERCHERONS AND BELGIANS--- 120

O TO SIX YEARS OLD, WEIGHING 1,760 TO 2,500 POUNDS; 50 PER 1T BLACKS, 70 PER CENT TON STALLIONS. ALL REGISTERED AND ANDED. HE SELLS "TOPPERS" AT \$1,000.00 AND \$1,400.00 (FEW HER). MARES—\$700.00 to \$1,000.00 SO GOOD THEY NEED NOT BE EDDLED" OR PUT ON THE "AUCTION BLOCK" TO BE SOLD. IAMS' LLING CLOTHES" FIT ALL BUYERS. NO MAN WITH MONEY OR WABLE NOTES GETS AWAY FROM IAMS. HE BUYS, OWNS AND ILS MORE STALLIONS THAN ANY MAN IN THE UNITED STATES. IS SAVED \$30,000.00 TO STALLION BUYERS IN 1910. HE IS NOT IN ESTALLION TRUST. AMS PLACES \$1,500.00 INSURANCE.

\$1,000--SAVED AT IAMS'---\$1,000

IKEY, WHAT A "GRAFT THESE "STALLION SALESMEN" ARE WORKIGON THE FARMER, SELLING FOURTH-RATE STALLIONS AT \$2,000.00 ND \$5,000.00. MR. BUYER, SEE IAMS STALLIONS YOURSELF. TAKE OSTALLION SALESMAN'S WORD. "IAMS HAS THE GOODS YOU READ BOUT." HIS ESTABLISHMENT IS WORTH GOING 200 MILES TO SEE. MS COMPETITORS "HOLLER," HE IS KNOCKING "HIGH PRICES" OUT FITHER YAMS TREE. JAMS SAWS WOOD, "BUTTS IN," SELLS MORE FALLIONS EACH YEAR. HE MAKES EVERY STATEMENT COOD. KEY BOY BUY A STALLION OF IAMS. HIS \$1,200.00 STALLIONS ARE UCH BETTER THAN OUR NEIGHBORS PAID THOSE OHIO MEN \$4,000.00 DR. THEN I CAN WEAR DIAMONDS. IAMS SPEAKS THE LANGUAGE. UTS DIRECT FROM EREEDERS, PAYS NO BUYERS, SALESMEN OR INTERPRETERS; HAS NO TWO TO TEN MEN AS PARTNERS TO SHARE ROFITS WITH. IAMS GUARANTEES TO SELL YOU A BETTER STALLION TS,000.00 TO \$5,000.00 BY SLICK SALESMEN, OR PAY YOU \$500.00 FOR YOUR ROUBLE, YOU TO BE THE JUDGE. IAMS PAYS THE HORSE'S FREIGHT ND BUYERS FARE; GIVES 60 PER CENT BRENDING GUARANTEE. IAMS' CARANTEE IS BACKED BY ONE-HALF MILLION DOLLARS.

WRITTE FOR MILLION DOLLARS. MRIGORIB BANK, St. Paul, Neb.; st. National Bank, and Chiaba National Bank, Omaha, Neb.; and Packers' stlonal Bank and Comaha National Bank, Omaha, Neb.; and Packers' stlonal Bank, South Omaha, Neb.

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#### The Greatest Breeding Establishment in the World

Our Percheron winnings at the recent Chicago International, which is nceded to have been the greatest Percheron Show ever held in the orld, has never been equalled before.

At this great show, we won:

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CHAMPION AMERICAN BRED MARE

Also TWENTY-FIVE other prizes. All of these CHAMPIONS were sired the world's famous CALYPSO.

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Rock Rapids, Iowa

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50 head of imported Percheron and Belgian Stallions and Mares for sale at "Let Live Prices." Write for catalog. Prices right.

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SALINA, KANSAS

ERCHERON IMPORTING CO. AT THE FOUR BEST SHOWS IN THE

times champion stallion any age.

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times champion group of five stallions. 29 times first in stallion classes.

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now ready and tilled

ment of mported and Home Bred Percheron, Belgian and Ccach Stallions; also mares and colts. I will sell you a registered stallion for \$300. Come to Paola and buy a stallion or mare at their actual value.

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mention the Kansas Farmer.

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For forty-six years renowned as the best of the breed. Six large importations since February 1, 1910 (the last arrived October 12th), insure fine selection, as each animal was individually selected for size, bone quality and excellence. If you want choice stallions or mares, write for cata-

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I have as fine a bunch of stallions as you will find. I have the ton size, and 1,700 to 1,800 pound two year olds, with worlds of bone and great action. My prices are right and my horses are right.

Yours for home grown Percherons, J. W. BARNHART, Butler, Mo.

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Dealer in registered horses, Three very fine stallions to SELL AT ONCE, Also the best stud colt in the state. Write for description of stock. I can suit you.

THE BEST IMPORTED HORSES, \$1,000 each. Home-bred, registered draft stallions, \$200 to \$600 at my stable doors. Address A. LATIMER WILSON, Creston, Iowa.

HOME-BRED DRAFT STALLIONS \$250 to \$600; imported stallions, your choice \$1,000. F. L. STREAM, Creston, Iowa.

PERCHERON HORSES, HOLSTEIN-FRIE-SIAN CATTLE.

Up-to-date Poland China hogs, Write your H, N, HOLDEMAN, Meade, Kansas,



### W. H. RICHARDS, Importer PERCHERON AND BELGIAN HORSES.

A car load of extra good 2-year-old and 3-year-old stal-lions recently arrived. Come and see these magnificent horses before you buy a stallion. I will make you some eye-opener prices just now. Barns only four blocks from A., T.

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EASY TO GET THERE.

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For the benefit and convenience of our Western trade, we have established a permanent branch barn at Abliene. Prospective buyers are cordially invited to inspect our stock here, and if you don't find just what you are looking for, we will be pleased to accompany you to the home barn at Homewood, Ill., where we can show you 100 head of big, drafty Stallions and Mares with plentry of bone and quality. Every horse guaranteed sound and a satisfactory breeder. Prospective buyers should see this stock before buying elsewhere. Third importation to arrive in ten days. Write us your wants, or better still, come and see us. Abliene is on the Rock Island, Santa Fe and U. P. railroads. Mention Kansas Farmer when writing.

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A number of fine stallions from the famous Holbert Importing Co., A number of the stations from the lamous holdert importing Co., of Greeley, Ia., are now for sale at Krause Feed Barn, New Hampshire Street, Lawrence, Kan. All of them young stallions in the pink of condition, ready for service. Horses Right. Prices Right. Communicate with George Robertson, Lawrence House, Lawrence, Kan., or better, come and see them.

Geo. Robertson, Manager, Lawrence, Kans.



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Our barns are full of the best Stallions and Mares we could buy in the old country; from 1 to 6 years old with plenty of size and quality. We pay no auctioneers or commissioners, but sell direct at prices that will interest you. A 60 per cent guarantee with every horse. Can show between trains.

Skoog, Reed & De Cow

Holdrege, Nebraska



### **ROBISON'S PERCHERONS**

For sale now, 100 head of stallions, mares and colts, of all ages. All stock recorded in Percheron Society of America.

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### PERCHERON HORSE SALE AT STERLING, KANSAS, MARCH 18, 1911 Registered Percheron Mares

Including Huchepie (75767) 60388, champion mare American Royal 1910 and champion mare Kansas State, Hutchinson, 1910. Three years old weight 2,130 lbs. This mare is due to foal on February 28, bred to the imported stallion, Australian (66301) 57196. The first prize 5 year old aged weight 2,130 lbs. This mare is due to foal on February 28, bred to the imported stallion, Australian (66301) 57196. The first prize 5 year old aged weight 2,130 lbs. This mare is due to foal on February 28, bred to the imported stallion, Australian (66301) 57196. The first prize 5 year old aged weight 2,130 lbs. This mare is due to foal on February 28, bred to the imported stallion, Australian (66301) 57196. The first prize 5 year old aged weight 2,130 lbs. This mare is due to fact on the late of the first prize 5 year old ged weight stallion at Kansas State Fair. All the others are registered in Percheron Society of America (the Stublefield book).

Send for catalog and come to my sale. If you want high class show mares this is the place. Sale right in town. My horses are free from all incumbrances and will be sold for the high dollar.

F. D. WEBB, Sterling, Kansas.

AUCTIONEERS-POTTER & CROTTS; STERLING, KAN.

O. P. Hendershot's Fourteenth

### Percheron Sale At Lincoln, Neb., Wed., Mar. 15

50 IMPORTED AND HOME-BRED STALLIONS AND MARES. 5 MAM-MOTH KENTUCKY BLACK JACKS.



Six imported stallions weighing more than six tons. Six imported mares weighing 11,000 lbs. Homebred stallions and mares weighing over a ton each. Nothing but clean young stock from 2 to 5 years old and all the big boned type that will mature large. I will sell my two imported stallions "Gateau" and "Galbanum," four and five years old, weighing 2,250 lbs. each. I believe they are as good as you will find in America both for breeding and quality.

I guarantee this will be the best bunch of Percherons sold this season (number of animals consid-

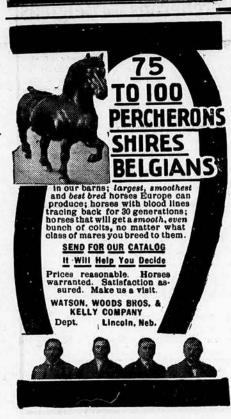
Write for catalogue giving full description of each animal. HEBRON, NEBRASKA. O. P. HENDERSHOT AUCTIONEERS—Cols. Woods, Branson, Page, Currier, and Hayherst.



### **Limestone Valley Farm**

-Headquarters for high class jacks and jennets. No public sale 1911, but have a barn full of good jacks and a pasture full of good jennets at private sale. Every animal a good one, guaranteed and well worth the price.

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Two Choice Percheron Stallions at a bargain. Weight 1750 to 2100. John D. Ziller, Hiawatha, Kans.

FIELD NOTES.

Nothing Succeeds Like Success.

Nothing Succeeds Like Success.

It is a good many years since W. F. Chamberlain first completed and placed on the market a combined food for young chicks, and called it "Chamberlain's Perfect Chick Feed." Attention has been called to this excellent feed in these columns for several years. To use "Chamberlain's Perfect Chick Feed" means that almost all the chicks will be healthy, and turn the balance in favor of the breeder. Note his remarkable egg propositions in another column, and address orders to W. F. Chamberlain, Kirkwood, St. Louis county, Mo.

Percheron Mare Sale.

Percheron Mare Sale.

On March 18, F. D. Webb of Sterling, Kan., will sell 10 head of Percheron mares. Included in this sale is the champlon mare, Huchepic No. (75767) 60328. This mare was champion at Kansas State Fair at Hutchinson, Kan., 1916, and champion at American Royal, 1910. She is safe in foal to the first prize aged stallion, Australian (66302) 51136 that was first in class at Kansas State Fair, Hutchinson. He was also a winner at the Illinois State Fair and at the International at Chicago, There will also be sold in this sale a lot of good young mares that are bred. Don't fail to look up the ad next week and arrange to attend this sale.

Pedigree Register Associations,

Every breeder and every farmer who raises pure bred stock is interested in knowing the proper name and address of the recognized association which records the pedigrees of his particular breed. While these essociations are, as a rule, very stable and do not make many changes in their officials, yet such changes do occur, and in order that our readers may be posted with the latest information, we print the corrected list. You will want to preserve this list for future reference.

CATTLE REGISTERS.

CATTLE REGISTERS. American Aberdeen-Angus Breeders' Association—Charles Gray, Pedigree Record Hullding, Union Stock Yards, Chicago, Sec-

sociation—Chartes are the sociation of the North Holland Herd Book—N. F. Sluiter, Brooklyn, N. Y., Secretary.

American Devon Cattle Club—L. P. Sisson, Newark, O., Secretary.

American Galoway Breeders' Association—R. W. Brown, Pedigree Record Building, Union Stock Yards, Chicago, Secretary.

American Guernsey, Cattle Club—W. H. Caldwell, Peterboro, N. H., Secretary.

American Hereford Cattle Breeders' Association—C. R. Thomas, Kansas City, Mo., Secretary.

American Jersey Cattle Club—J. J. Hemingway, New York, Secretary.

American Normandy Herd Book Association—E. G. Kramer, New York, Secretary.

American Sinmenthal Herd Book Association—G. F. Kramer, New York, Secretary.

American Sinmenthal Herd Book Association—G. G. Kramer, New York, Secretary.

American Sinmenthal Herd Book Association—G. G. Kramer, New York, Secretary.

American Shorthorn Breeders' Association—John W. Groves, Pedigree Record Edg., Union Stock Yards, Chicago, Secretary.

American Sussex Breeders' Association—

American Sussex Breeders' Association—
Overton Lea, Nashville, Tenn., Secretary.
Ayrshire Breeders' Association—C. M.
Winslow, Brandon, Vt., Secretary.
Breeders' Association of French-Canadian
Cattle of the United States—W. J. McMurdy, Binghampton, N. Y., Secretary.
Brown Swiss Cattle Breeders' Association—Charles D. Nixon, Oswego, N. Y., Secretary.

tary.
Dutch Belted Cattle Association of America—G. G. Gibbs, Marksboro, N. J., Secretary.
Holstein-Friesian Association of America
F. L. Houghton, Brattleboro, Vt., Secre-

Maine State Jersey Cattle Association—J.
Henry Moore, Winthrop, Mc., Secretary,
National Folled Hereford Breeders' Association—A. E. White, Chicago, Secretary,

Henry Moore, Winthrop, Mc., Secretary,
National Folled Hereford Breeders' Association—A. E. White, Chicago, Secretary,
5629 Madison avenue.
Polled Durham Breeders' Association—J.
H Martz, Greenville, O., Secretary.
Red Polled Cattle Club of America (incorporated)—Harley A. Martin, Gotham,
Wis., Secretary.
HORSE REGISTERS.
American Association of Importers and
Breeders of Belgian Draft Horses—J. D.
Conner, Jr., Wabash, Ind., Secretary.
American Breeders' and Importers' Percheron Registry—John A. Forney, Plainfield,
O., Secretary.
American Breeders' Association of Jacks
and Jennets—J. W. Jones, Columbia, Tenn.,
Secretary
American Clydesdale Association—R. B.
Oglivie, Union Stock Yards, Chicago, Secretary.
American Hackney Horse Society—Gur-

Oglivie, Union Stock larus, Charley, retary,
American Hackney Horse Society—Gurney C. Gue, New York, Secretary,
American Saddle Horse Breeders' Association—I. B. Nall, Louisville, Ky., Secretary,
American Shetland Pony Club—Julia M.
Wade, Lafayette, Ind., Secretary,
American Shire Horse Breeders' Association—Charles Burgess, Wenona, Ill., Secretary.

ton—Charles Burgess, Wenons, III., Secretary.
American Stud Book (Thoroughbreds—W. H. Rowe, New York, Registrar,
American Trotting Register Co.—Frank
E. Best, Chicago, Registrar.
American Suffolk Horse Association—Al-

American Suttork Horse Association—Alexander Galbraith, De Kalb, Ill., Secretary. Cleveland Bay Society of America—R. P. Stericker, Ocenomowoc, Wis., Secretary. French Coach Horse Society of America.—Duncan E. Willett, Oak Park, Ill., Secretary.

--Duncan E. Willett, Oak Park, Ill., Secretary.
French Coach Registry Company-Chas.
C. Glenn, Columbus, O., Secretary.
German. Hanoverian and Oidenburg
Crauch, Lafayette, Ind., Secretary.
Morgan Horse Register—Joseph Battel,
Middlebury, Vt., Editor.
National French Draft Horse Association
--C. E. Stubbs, Fairfield, Ia., Secretary.
Percheron Society of America—Wayne
Dinsmore, Union Stock Yards, Chicago, Secretary.

retary.
Percheron Registry Company—Charles C.

Percheron Registry Company—Charles C. Gienn, Columbus, O., Secretary, Welsh Pony and Cob Society—John Alexander, Aurora. Ill., Secretary SHEEP REGISTERS, American Angora Gcat Breeders' Association—John W. Fulton, Helena, Mont., Secretary.

American Black-Faced Highland Sheep

Association—F. R. Sanders, Bristol, N. H. Secretary.

The Apploos deeus to have usoldent bawley, Fayetteville, N. Y., Secretary, American Cotswold Association—Frank W Harding, Waukesha, Wis. Secretary, American and Delaine Merino Record Association—S. M. Cleaver, Delaware, O., Secretary, Constant of the Constant of t

sociation—S. M. Cleaver, Delaware, O., Secretary,
American Leicester Breeders' Association
—A. J. Temple, Cameron, Ill., Secretary,
American Milch Goat Record Association—W. A. Shafor, Hamilton, O., Secretary,
American Oxford Down Association—W.
A. Shafor, Hamilton, O., Secretary,
American Rambouillea Sheep Breeders'
Association—Dwight Lincoln, Milford Cen-

Association—Dwight Libeoin, Millott Certer, O., Secretary,
American Shropshire Registry Association—L. E. Troeger, Lafayette, Ind., Secretary,
American Southdown Breeders' Association—Frank S. Springer, Springfield, Ill.

Secretary.
American Suffolk Flock Registry Association—James Bowman, Guelph, Ont., Secre-American Tunis Sheep Breeders' Associa-on—Charles Rountree, Crawfordsville, Ind.

American Tubic Tition—Charles Rountree, Crawtorusving, Secretary.

Black-Top Spanish Merino Sheep Breeders' Fublishing Association—R. P. Berry, Clokey, Pa., Secretary.

Continental Dorset Club—Joseph E. Wing Mechanicsburg, O., Secretary.

Dickinson Record Co.—Beulah McDowe, Canton, O., Acting Secretary.

Dorset Horn Breeders' Association of America—M. A. Cooper, Washington, Pa. Secretary.

Secretary.

Franco-American Merino Sheep Breeders
Ass.ciation—John P. Ray, East Bloomfeld.
N. Y., Secretary.
Hampshire Down Breeders' Association of America—C. A. Tyler, Nottawa, Mich., Secretary.

Hampshire Down Breeders' America—C. A. Tyler, Nottawa, Mich., Secretary.

Improved Black-Top Delaine Merino Sheep Breeders' Association—O. M. Robertson. Paton Rapids, Mich., Secretary.

International von Homeyer Rambouillel Club—E. M. Moore, Orchard Lake, Mich., Secretary.

Michigan Merino Sheep Breeders' Association—E. N. Ball., Hamburg, Mich., Secretary.

National Lincoln Sheep Breeders' Association—Bert Smith, Charlotte, Mich., Secre National Merino Sheen Register Association—R. O. Logan, Montgomery, Mich., Sec

retary.
National Shropshire Record Association—S. J. Weber, Middleville, Mich.
Persian Sheep Breeders' Association—C.
E. Balley, San Jose, Cal., Secretary,
Standard American Merino Sheep Breeders' Association—John P. Ray, Hemlock, Y.,
Secretary.

Standard American Merino Sheep Breesers' Association—John P. Ray, Hemlock, Y., Secretary.
United States' Merino Sheep Registry Arsociation—J. 'A. B. Walker, Mount Air. Pasecretary.
Vermont, New York and Ohio Merifo Sheep Breeders' Association—Wesley Bishop, Delaware, O., Secretary.
SWINE REGISTERS.
American Berkshire Association—Frank Springer, Springfield, III., Secretary.
American Chester White Record Association—Ernst Freigau, Dayton, O., Secretary.
American Duroc-Jersey Swine Breeded Association—T. B. Pearson, Thorntown Ind., Secretary.
American Essex Association—F. M. Sreul McLean, Ill., Secretary.
Anerican Poland China Record Co.—W.
McMcPadden, Pedigree Record Building Union Stock Yards, Chicago, Secretary.
American Tamworth Swine Record Association—E N. Ball, Ann Arbor, Mich. Secretary.
American Hampshire (Thin Rind) Swiss

ciation—E. N. Ball, Ann Arbor, Michael retary.

American Hampshire (Thin Rind) Swig Record Association—E. C. Stene, Armstroff Ill., Secretary.

American Yorkshire Club—H. G. Krum. White Bear Lake, Minn., Secretary.

Cheshire Swine Breeders Association—F. S. Hill, Freeville, N. Y., Secretary.

Improved Small Yorkshire Club of American B. Stevent Executille, Pa., Secretary. -F B. Stewart, Espevville, 1

National Chester White Record Association—Thomas Sharpless, West Chester, Fa. Secretary.
National Duroc Jersey Swine Breeder, Association—J. R. Pfander, Peorla, Ill., Sc.

retary.
National Mulefoot Hog Record Association—W. H. Morris, Indianapolis, Ind., Sec.

tlon—W. H. Morris, Indianapolis, Indianapolis, retary,
National Foland China Record Association—A. M. Brown, Winchester, Ind., Secretary.
O. I. C. Swine Breeders' Association—C. Hiles, Cleveland, O., Secretary.
Southwestern Poland China Record Association—H. P. Wilson, Gadsden, Tenn., Secretary.

ciation—H. P. Wilson, Gadsden, Tennaretary.
Standard Chester White Record Assolition—W H. Morris, Indianapolis, Ind., 380 retary.
Standard Poland China Record George F. Woodworth, Maryville, Mo., 380 retary.
United States Small Yorkshire Assolition—D. T. Bascom. California, Mich. Victoria Swine Breeders' Association—E. Davis, Dyer, Ind., Secretary.

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The great egg layers; large size and vig-rous; the IDEAL farmers fowl. They will mprove your flock, increase your egg pro-luction. Eggs at the reasonable price of \$1 er setting \$5 per 100 per setting, \$5 per 100, C. O. PARSONS, Ideal Stock Farm, Clearwater, Kansas,

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Is proven by latest winnings. At Newton, Garden City and Wichita they won 9 firsts, 9 seconds and 7 thirds. Engs from pens 13 to \$5 per setting; from range, \$4 per 100. Send for circular, C. C. LINDAMOOD, Walton, Harvey County. Kansas.

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L MOORE MRS. V. L. MOORE Moore's S. C. R. I. Reds

INNERS at Topeka, Kan., Kansas State d Central Kansas Shows. The REDDEST EDS IN KANSAS. They have the best dity qualities. BRED TO LAY. Write mating ilst.

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FOR SALE—W. ORPINGTON COCKER-ls \$5 each; Kellerstrass strain. L. S. Cherokee, Kan.

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KELLERSTRASS STRAIN S. C. CRYSTAL While Orpingtons; eggs and baby chicks. Write for prices. C. H. Althouse, Turney, Io.

BUFF ORPINGTON AND RHODE IS-and Red cocks and cockerels \$1 to \$2 Good 56-egs Cyphers incubator cheap. H. G. Sazh, Grantville, Kan, Ind, phone.

KELLERSTRASS CRYSTAL WHITE OR-lingtons: yearling cockerels \$5; 15 eggs \$3; Apress Drepaid Clrcular free, Harvey From L. Box 441, Highmore, S. D.

BUIF ORPINGTONS—25 GRAND COCKrels and mated breading pens from traplegted prize winning heavy layers. Eggs
and baby chicks. All described in my
the state of the state of

S. C. BUFF ORPINGTON EGGS \$1.50 per 15; \$6 per 100. Mrs. Ella Sherbunaw, Fredoria, Kan.

4 PENS FARM RAISED BLACK LANG-shans. W. A. Smith, R. 8, Pittsburg, Kan,

FOR SALE—CRYSTAL WHITE ORPING-toh cockerels; Kelleretrass strain. Eggs from pen headed by Crystal King, \$8 for 15. F. A. Vaniman, McPherson, Kan.

KELLERSTRASS WHITE ORPINGTONS

-Eggs \$3 for 15. Free circular. Phillips
Poultry Farm, R. 6, De Scto, Kan

KELLERSTRASS STRAIN WHITE OR-pington eggs and cockerels. John McPher-son, Wauneta, Neb,

S. C. BUFF ORPINGTON EGGS FROM any mated breeding pen; also from my grand utility stock; S. C. Brown Leghorn eggs from my grand ckl. or pullet mating pen; ckl. scoring 94½, pullets 95. Send for mating list. G. F. Koch, R. F. D. Eilinwood. Kan.

#### PLYMOUTH ROCKS.

CHOICE BARRED ROCK COCKERELS \$1.50 each. S. E. Wilson, Grantville, Kan.

WHITE ROCK EGGS \$2 FOR 15; COCKerels \$1 to \$5. W. F. Blackwell, Quinter, Kan.

BUFF ROCKS EXCLUSIVELY FOR 14 years. Eggs: 15, \$1.50; 100, \$6. Mrs. John Bell, Ackerland, Kan.

WHITE ROCKS, FISHEL STRAIN. EGGS 1.50 per 15: excellent layers. L. B. Dobbs, ontana, Kan.

WHITE ROCKS, FARM BRED. (OCK-erels \$1.50 up. Eggs \$1 per 15; \$6 per 100. R. E. Mesnard, Humboldt, Kan. BUFF ROCKS—LAYING STRAIN; EGGS for sale, \$1.50 for 15. Write me, John F. Hess, Humbolt, Kansas.

BARRED RCCKS; PURE BRED; HIGH scoring; 12 years' experience; eggs \$1, \$2, \$3 per 15. W. H. Mclyneaux, Palmer, Kan

BARRED ROCK COCKERELS; THE best; \$1 to \$5 each: order from this. H, B, Wood, Garnett, Kan.

BARRED ROCKS AND BUFF LEG-horns; 100 birds for sale; score 88 to 92; 30 premiums. L. D. Peak, Logan, Kan.

DUFF'S BIG TYPE BARRED ROCKS; barred to skin; choice breeders; 30 eggs \$5; guaranteed; circulars. A. H. Duff, Larned,

BARRED ROCK EGGS FOR SALE AT \$1.50 to \$2 per setting or fifteen. My Junia Spohn, R. F. D . 1, Garnett, Kas.

FINE BARRED ROCKS; FARM RAISED; good layers; yellow legs and beaks, Eggs: 15, \$1.25; 80, \$2 100, \$5. Mrs. John Yo-well, McPherson, Kan

J. A. AYERS, LA PLATA., MO., ORIGI-nator of the Ostrich Plume strain of Barred Plymouth Rocks 24 years a breeder of these famous American birds.

SNOW WHITE ROCKS—EGGS FROM A pen of as fine birds as were ever hatched; \$2 for 15. Address J. E. Spalding 334 Laurel ave., Topeka, Kan.

FOR 22 YEARS A BREEDER OF Barred Flymouth Rocks exclusively; for show, table use and egg production. Large size cockerels \$3 each; \$2 for 15 eggs. G. E. Dyksterhuis, Helly, Colo.

GRIFFITH'S WHITE PLYMOUTH Rocks; bred for eggs; excellent in color and shape; eggs at reasonable prices; write E. E. Griffith, 361 So. 19th St., Independence, Kansas.

BARRED ROCK COCKERELS, HENS and pullets; all from prize winners; vigorous, farm raised stock; cockerels all sold hens, \$1; cggs, \$1 per 15; \$5 per 100, Mrs. H. Buchenan, Abilene, Kan.

BUFF PLYMOUTH ROCK COCKERELS. Good breeding cockerels \$3 each, 2 for \$5, while they last. They are good value. C. R. Baker, Box F. Abilene, Kan.

EGGS FOR HATCHING WHITE P. Rocks \$2 per 15, \$7 per 100; S. C. White Leghorns and S. C. Brown Leghorns \$1.50 per 15; \$4 per 100. Order now. Western Home Poultry Yards, St. John, Kan.

WAGNER'S BARRED ROCKS AND Bronze turkeys; hens, pullets and cockerels; M. B. toms; eggs for hatching. Write for particulars. Mrs. E. C. Wagner, Holton, Kan.

BARRED ROCKS—BRED FOR BEAUTY and profit; 36 premiums Topeka, Manhattan, Clay Center; males, \$2 to \$5; eggs, 15, \$3; 30, \$5; 15, \$1,25; 60, \$4; 100, \$6; chicks, 20c, 40c, Mrs. D. M. Gillespie, Clay Center, Kan.

FOR SALE—PURE BRED BARRED P. Rock hens or pullets, \$5 per half dozen; \$9 per dozen; eggs. 75c per setting 15; \$1 per 100. Hillerest Fruit and Poultry Farm, R.

4, Topeka, Kan. Ind. 2180-1. EGGS AND BABY CHICKS — BARRED and White Rocks, S. C. Buff 'Orpingtons, R. C. Rhede Island Reds, S. C. Brown Legherns Buff Cochins White Wyandottes, Stock all sold. Circular free, Kansas Poultry Co., Norton, Kan.

BRED TO LAY BARRED ROCKS; PEDIgreed, high class stock; excellent color; record layers. Eggs by the setting \$1.25. Sc per 10c. Order now or let me book your order for future delivery. Mrs. Geo. Stal-

BUFF ROCKS; GOLD NUGGET STRAFN; line bred; eggs from 90 to 94 point prize-winners, 15 fer \$2.50; 30 for \$4. To get winners you must buy eggs from winners. Abram Troup, Logan, Kan.

PURE BRED BARRED ROCKS; GREAT-est winter laying strain; \$1.50 per 100. Cat-alog. O. E. Skinner, Columbus, Kan.

PRIZE WINNING BARRED ROCKS— Eggs: 15 for \$1; \$5 per 100. C. Warren-burg, Seneca, Kan.

#### HOUDANS.

PURE STRAIN HOUDAN EGGS, \$1.50 er setting of 15 eggs, 50 \$3.75, 100 \$7. P. Green, breeder of Houdans exclusive-

WYANDOTTES,

COLUMBIAN WYANDOTTES; EGGS
from prise winners; reasonable. Write me.
G. A. Temple Lexington, Neb.

COLUMBIAN WYANDOTTES—COCKER-els and pullets for sale, A. D. Willems, Minneola, Kan.

FOR SALE—S. LACED WYANDOTTE cockerels; also fine Mammoth Bronze turkeys. Len Essex, Rockford, Iowa.

BONNIE VIEW WHITF WYANDOTTE and Mammoth Pekin duck eggs; a few fine cockerels yet for sale. Write for prices. Bonnie View Poultry Yards, New Sharon, Iowa

WORLD'S FAMOUS CRYSTAL WHITE Wyandottes; eggs for hatching. Send for literature.' Burton, 303 E. 11th, Hutchinson, Kan.

white wyandottes; heavy layers and winners; bred for results; they are second to none. Choice breeding stock and eggs. Write for prices.

H. R. BOMHOFF,
R. R. S. Pittsburg, Kansas.

BUFF WYANDOTTES — EGGS \$1.50 TO \$3 per 15; booking orders for baby chicks at 15c to 25c cach. All stock have splendid laying records and breeding pens contain only high scoring birds. Fest pen headed by bird scoring 94%. A few good pullets at \$1 each. G. C. Wheeler, Manhattan, Kan.

White Wyandottes and Indian Runner ducks. Winners at Independence and Coffeyville, Kan., past season. Grand in color, type, and size, unexcelled as egg producers. Write for egg circulars and mating list.

W. E. MILLER,

R. 6, Independence, Kan.

BUFF WYANDOTTES AND WHITE Recks. L. A. Whitmore, Beaver Dam. Wis.

BUFF WYANDOTTE BREEDING STOCK or sale, W. K. Heaten, Larned, Kan. SILVER WYANDOTTES FOR SALE; AS good as the best; eggs \$2 per setting; incubator eggs. \$5 per 100. M. B. Caldwell, Broughton, Ksn.

LANGSHANS.

TENNEHOLM FARM BLACK LANG-shans for sale. The best lot of cockerels I ever raised. Pricos reasonable. Write at once. Mrs. E. S. Myers, Chanute, Kan

FOR SALE—SOME SPLENDID BLACK angshan cockerels, \$1.50 each Mrs. W. A. beweese, Stamford, Harlan county, Neb.

BLACK LANGSHAN COCKERELS FROM ig scoring stock; also eggs. Write me for rices Mrs. D. A. Swank, Blue Mound,

KLUSMIRE'S IDEAL BLACK LANG-shans; winners at Topeka, Horton and Leavenworth shows; eggs from winning stock. Write for prices. George Klusmire, Holton, Kan.

CONYERS' BLACK LANGSHANS HAVE proven themselves the best in the Southeast; Kansas' Great Layers. A few choice ckis, and pullets still on hand. Write for prices on eggs and stock.

H. CONYERS,

702 W. Kansas Ave., Pittsburg, Kan.

IIAYNES' LONGVIEW FARM STRAIN of Black Langshaus; prize winners at Topeba, Wichita, Leavenworth; all pens are winners: hatch your own winners. One grand special pen \$10 per 15; four grand pens \$2.50 for 15; range \$1 25 per 15. Best matings in America. Catalogue free M. F. Haynes, Grantville, Kan.

LEGHORNS.

FOR SALE—SINGLE COMB WHITE Leghorn eggs; \$1 per 15; \$5 per 10c. Address Mrs. N. J. Alvey, Meriden, Kan.

PRIZE WINNING ROSE COMB BROWN Leghorns for sele; egg circular free. Write your wants Mrs. John Holzhey, Bendens, Kan.

GALVA POULTRY YARDS—B. C. W. Leghorns and White Wyandettes; hens and cockerels for sale: 2egs by setting or hundred. John Ditch, Prop., Galva, Kan.

FOR SALE—WHITE 1.EGHORN COCKerels; all scored by Judge Tom Southern; \$1 up, according to quality. Eggs \$1 to \$3, R. E. Davis, R. R. 5, Holton, Kan.

MOORE & MOORE, SPECIALISTS-SINgle Comb Brown Leghorn and Buff Rocks; separate farms Write for circular. Osage City, Kan., Route No. 6.

PURE BRED ROSE COMB WHITE leghorn eggs from prize winners; \$1 per 15, \$5 per 100; penned eggs \$2 per 15. Jennie Martin, Frankfort, Kansas.

MUCH SHOWN—NEVER DEFEATED.
S. C. White Leghorns, White H. turkeys,
Indian Runner ducks. Males and eggs for MARY CULVER, R. 1, King City, Mo.

STINE'S RUFF LEGHORNS WON 1ST ckl., 1st pen at Topeka, Jan. 2 to 7, 1911; unexcelled as layers; stock eggs. Write for mating list, Mrs. H. A. Stine, R. 3, Holton, Kan.

S. C. B. LEGHORNS.

The score at the Kansas State Show, Wichita, Kan., Jan. 9 to 14, 1911: Ckl., first, 94½; pul., first, 94½; pul., second, 94½; pul., third, 94¼; pul., fifth 94½; pen, first, 188.875. Nothing below 94¾ in the pen.

E. GOODALL, Salina, Kan.

QUALITY WHITE LEGHORNS—LARGE type S, C, White Leghorns, winners at Parsons' big show, Mo. State, Leavenworth, Kan., Pittsburg and Iola, Kan. The recognized egg layers, The breed that pays, Stock and eggs. Write for prices, C. T. Brunson Parsons, Kan.

MY STANDARD BRED S. C. BUFF LEG-horns won at Newton 1st cock, 1st and 2d cockerel, 1st, 2d and 3d hen. 1st, 2d, 3d and 4th pullet, 1st pen. Stock for sale— cockerels \$1 and up. Eggs \$2.50 for 15; \$5 for 100. S. Perkins, 801 E. First street, Newton, Kan.

S. C. BROWN LEGHORNS-HIGH QUALty utility flock: excellent all-year-around layers. Don't fail to order enough to fill your incubator. Ergs \$1.25 per 15; \$6 per 100 M. E. Wilson, 17th and Hydraulic ave., Wichita, Kan.

EGGS FROM LAYING STRAIN B. C. B. Leghorns 15 per \$1; 100 per \$5, Mrs. J. E. Wright, Wilmore, Kan.

S. C. WHITE, BROWN AND BUFF LEG-norns and R. C. Reds. Eggs. Chicks. Still time good White Leghorn ckls. at bargain prices. Prosperity Poultry Farm, R. 2, Barnes, Kan.

SWERDFEGER'S S. C. BROWN LEG-horns—Twenty years they have WON the majority of premiums offered at our largest and best shows. We ARE BREEDERS and know how to produce the BEST. Write for mating list. H. P. Swerdfeger, 1144 Forest ave., Wichita, Kan.

FREE RANGE SINGLE COMB BROWN Leghorn eggs \$1 for 15; \$1 50 for 30 or \$4 a hundred. Clarence Wilkinson, Hewins, Chautaukua Co., Kansas.

"IVY WOOD" BROWN LEGHORNS LAY all winter; chicks run to pullets; book egg orders early; \$5 for 100 from range stock. Write for prices. R. O. Davis, Merriam,

#### RHODE ISLAND REDS.

RHODE ISLAND RED COCKERELS; beauties; both combs; \$1 to \$2. Mrs. W. E. Murphy, R. 1, Luray, Kan.

PURE SINGLE COMB RED COCKERELS \$2; 15 eggs, \$1. Belle Tyler, Haven, Kan.

SINGLE COMB R. I. RED COCKRELS, \$1; eggs \$1 for 15. Albert Coe, Yates Center, Kansas.

UTILITY SINGLE COMB RHODE IS-land Red eggs from range \$1 per 30, \$3 per 100. Mrs, Rosa Janzen, Geneseo, Kan.

PREMIUM WINNING REDS; BOTH combs; eggs and cockerels; buy eggs from premium winners. R. Steele, R. 7, Topeka, Kan.

SINGLE COMB R. I. REDS OF QUALI-ty, good color, excellent layers. Write for egg prices. Filis E. Brown, 316 S. 11th, Independence, Kan. S. C. R. I. REDS; 15 EGGS FROM FLOCK 75c; 15 eggs from pen, \$1.50. Little chicks 10c each. Mrs. E. B. Leinbach, Nickerson,

R. C. R. I. RED EGGS; CHAMPION Kansas winners; scored cockerels from 90 to 94 ½ by Judge Lamb, from \$2 to \$10; list free. Frank H. Foster, Topeka, Kan.

ROSE COMB R I, RED EGGS FOR hatching; fine winter laying strain; \$1.50 for 15; book orders early, R. T. Roby, 1500 Harrison, Topeka, Kan

ROSE AND SINGLE COMB RHODE ISland Reds. As good as there are in the East or West. Have been breeding them 8 years. First prize winners at the leading shows and fairs. Ten matings to furnish eggs for hatching. Write for free illustrated mating list. H. A. Sibley, Lawrence, Kan.

#### ANCONAS.

PRIZE WINNING MOTTLED ANCONAS, Eggs: \$1.50 and \$2 per 15 or \$6 per 100, W. H. Hardman, Frankfort, Kan.

TRY ANCONAS FOR WINTER EGGS. I have the best that 11 years of experience receding them has enabled me to produce. Circular, Mrs. A. R. Gosler, Matfield Green,

TURKEYS.

FOR SALE—M. B. TURKEY TOMS FROM stock acoring 95 to 97 points. Vira Bailey, Kinsley, Kan.

WHITE HOLLAND TURKEYS; YOUNG toms \$5. Mrs. F. W. Kingsley, Cheyenne Wells, Colo.

FINE, LARGE WHITE HOLLAND TUR-key toms for sale at \$5 each. Address F. E. Wentz, Burlington, Kan.

A FEW PURE MAMMOTH BRONZE young toms; prize winning stock; closing out prices. L. M. Jamison, Sterling, Kan. 2

SEVERAL BREEDS.

INDIAN RUNNER DUCK EGGS \$1 PKR 4. Myrtle Casteel, Anthony, Kan. 1

S. C. BLACK MINORCAS EGGS—15 FOR \$1.50. T. F. Pine, Lawrence, Kan.

EGGS FROM PURE BRED POULTRY. lating list free. Harry Inman & Sons, teokuk, Iowa.

FOR SALE—GOOD BUFF COCHIN COCK-erels. \$2.50 each. Mrs. Roscoe Consertson. Sterling. Kan. FOR SALE — WHITE WYANDOTTE cockerels, S. C. Brown Leghorn, Rose Comb Reds, Barred Rock eggs; chicks, M. A. Temlinson, Eureka, Kan.

SINGLE COMB BLACK MINORCAS-MY 1911 breeding pens are hard to beat; large; victorous, standard weight birds \$1.50, 15; \$7 per 100. Fred Kelm, Seneca, Kan.

BLUE ANDALUSIAN—THE PREMice egg layers; large size, beautiful color; eggs from high scoring pens; send for mating list. George W. King, 419 East L. T. St., Independence, Kan.

CHOICE LIGHT BRAHMA COCKERELS, \$2 each; choice setting eggs. Mrs.Adda Prickett, Wamego, Kan.

LIGHT BRAHMAS EXCLUSIVELY—A few good ckls. for sale; eggs from high scoring pens and fine flock. Send for free mating list. Mrs. J. F. O'Daniel, Jr., Westmoreland, Kan.

EGGS AND STOCK FOR SALE OF 8 VArieties of Leghorns; 3 varieties of Minorcas; also Blue Andalusians, Mottled Anconas, English Red Caps, R. C. Black Bantams, White Cochin Bantams. Mr. and Mrs. Otis H. Crow, Hutchinson, Kan.

EGGS-EGGS-FROM THOROUGHBRED oulduse and Emden geese. Turkeys, pea-EGGS—EGGS—FROM THOROUGHBRED Toulcuse and Emden geese. Turkeys. peaccks. Rcuen, Pekin, Muscovey and Indian Runner ducks. Pearl and White guineas. Bantams, Buff. White and Barred Rocks, S. S. Hamburgs, Houdans, Black Langshans, Cornich, Indian Games, Partridge Cochins, Buff Orpingtons, Rhode Island Reds, Buff, White and Silver Laced Wyandottes, Rose and Single Comb Brown and White Leghorns. Fancy Digeons, dogs, rabbits, Poultry eggs, 15 for \$1; eggs by the 10 reasonable. Write for free circular. D. L. Bruen, Platte Center, Neb.

## Lamer's Percheron Sale

I will sell at Public Auction on

THURSDAY, MARCH 16, 1911

AT SALINA, KANSAS

47 Head PERCHERON MARES AND STALLIONS 47 Head

Consisting of twelve Stallions (2 to 5 years old), thirty Mares (2 to 5 years old) and five Colts.

The "imported" stallions were all imported by me and are thoroughly acclimated and ready for service—with as much weight, style, action and conformation as you would ever be able to find in one barn,

My mares are the kind that would do credit to any man's breeding farm and will start the foundation of a family of horses of which you would be proud, twenty years hence.

WRITE FOR CATALOGUE.

## C. W. Lamer, Salina, Kas.

#### DUROC JERSEY SALE

TUESDAY, MARCH 21 AT 11 O'CLOCK SHARP ON MY FARM 61/2
MILES SOUTHEAST OF MERIDEN, 14 MILES NORTHEAST OF TOPEKA AND 6 MILES NORTHEAST OF GRANTVILLE.

The offering is richly bred and carries the popular blood lines of the The offering is richly bred and carries the popular blood lines of the Duroc family and consists of 35 bred sows and gilts, 15 open gilts and 30 boars. The sows are bred mostly to D's Crimson Wonder, son of Crimson Wonder 3d, the Nebraska champion in 1908 and first in his class in Nebraska, Iowa and Illinois in 1910. The boars and open gilts were sired by D's Grimson Wonder and D's Col., a son of B. & C's Col., champion of Iowa and Illinois. The entire offering is certainly well bred, amount mallow and a useful lot of swine. If you are looking for somesmooth, mellow and a useful lot of swine. If you are looking for something real good, you will not be disappointed if you come to my sale. Catalogs ready. 14 head of grade Shorthorn milk cows sold before lunch. AUCTIONEERS—COL. J. D. SNYDER, COL. F. A. TRIPP, COL. WM. DETLER.

E. S. DAVIS, MERIDEN, KAN.

O. W. Devine, Fieldman, representing Kansas Farmer.

### FIELD NOTES.

G. G. Mandt With William Galloway Co

G. G. Mandt With William Galloway Co
Mr. G. G. Mandt of the famous wagon
making family of Mandts in Wisconsin has
just produced what he calls his masterplece. It is the product of 12 months of
arduous labor, and it becomes the occasion
of announcement of his connection with the
William Galloway Company. Nothing satisfies William Galloway but the best, and
when a year ago he determined to have the
best complete manure spreader, he looked
around for the best wagon maker he could
find in the country. He knew where he
could get him, too. It was G. G. Mandt of
the Mcline Plow Company, formerly of
Stoughton, Wis. Mr. Mandt grew up in the
wagon making business. His father built
the first Mandt wagon and G. G. Mandt
worked in his father's little shop when they
were making but two or three wagons a
month and a little bit of furniture. He
saw the fame of the Mandt wagon grow
until it was world wide and he helped to
make it so. He was for seven years with
the T. G. Mandt Company, and when they
disposed of their interest to the Moline
Plow Company, he went into that company's
experimental department. Mr. Mandt is a
thorough mechanic; he delights in making
difficult mechanical problems easy. He
knows wood and iron and steel and can
make them do what he wants. He is an
expert designer and intensely practical, and
he knows from long years of experience
just what is necessary in a wagon to make
it the best. Now, when G. G. Mandt says
as he did to Mr. Galloway. "That is the
best wagon I ever made," it means that it
is the lightest in draft; it is strongest; it
is most durable and in every way complete.
These are the gears that go under the Galloway new Manure Spreader no, 5. It is
the finest complete manure spreader on the
Arierican market, because it combines the
latest thought of the foromost experts in
their respective lines, If it could have been
the man to so it. Mr. Galloway is calling
attention to this mew spreader in one of his
characteristic announcements on page 17.

#### Davis' Duroc Jersey Sale.

Davis' Duroc Jersey Sale.

Attention is called to the scle announcement of Duroc Jerseys on March 21 by E. S Davis of Meriden, Kan. Mr. Davis has a very useful and smooth lot of Durocs. The sows and gilts bred are rich in the hlood of Ohio Chief, Col. Orion, Crimson Wonder. Kant Be Beat and Goldfinch. These sows are most all of them bred to D.'c Crimson Wonder, a son of Crimson Wonder 2d, the champion of Nebraska in 1908 and first in his class in Nebraska. Iowa and Illinois in 1910. D.'s Crimson Wonder is a mighty good hog and were he in show c.ndition he would compare very favorably with his illustrious sire. A few of the sows and gilts are bred to a Kant Bo Beat boar. In the offering there are 13 young boars, every one of which is a crackerjack. They were sired by D.'s Crimson Wonder and D.'s Col., a son of B, & C.'s Col., champion of Iowa and Illinois. The entire offering is a mighty useful tot of hogs and are as mellow as a ripe peach Do not fall to attend this sale if you are looking for a good brood sow or a boar. Send for catalog and send your bids in case you cannot attend the sale to O. W. Devine, representing Kansas Farmer.

"Raising More Corn"

#### "Raising More Corn"

"Raising Mere Corn"

Is the title of a 40-page bocklet which we are just in receipt of, and after a careful reading we do not hesitate to recommend that all readers of Kansas Farmer who raise corn should get this booklet and read it. Its object is to help increase the yield of corn in Kansas and thus increase the demand for the highly perfected line of corn plarting machinery put out by Deere & Mansur Co. of Moline. Ill. It is surprising to see how thoroughly the subject of seed selection, grading, testing, cultivating, etc., is treated in this booklet, and it's yours for the asking. Deere & Mansur Co. are among the largest manufacturers of farm implements in the world and it is no surprise that they should be among the first to realize that every acre of corn land in the United States is in cultivation and the only way to increase the demand for corn planting machinery is to increase the

yield per acre. Write for book 13A, Deere & Mansur Co., Moline, Ill.

Rystead Makes Good Sale.

Mr. A. R Rystead's first Poland China bred sow sale, held at the farm near Mankato, Kan., February 22, was quite a success notwithstanding that the crowd was small and composed almost entirely of farmers. The entire offering of 38 head, of which only seven were tried sows, averaged \$31. E. J. Larocque of Cawker City was the heaviest buyer. Mendenhall Bros. of Esbon and J. W. Walker of Mankato were also good buyers. The top price paid was \$52. Mr. Rystead expresses himself as being well pleased with this, his first sale, and promises his neighbors as well as breeders an offering at his fall sale that will make them sit up and take notice. Mr. Hystead has been a good buyer at several of the best swales held in the state and southern Nebraska So far he has bought 14 head at prices ranging from \$50 up to \$80. Watch this young breeder.

Duroc Bred Sow Ssle March 23, On March 23, Charles Stith and R. D. Martin of Eureka, Ken., will sell a draft of their famous Duroc bred sows. This prom-ises to be one of the noted Duroc sales of the season. Please see ad in next week's issue of Kansas Farmer and write early for a catalog.

Jersey Bull Calf for Sale,

Dr. W. M. Shirley, formerly of Hiawatha,
Kan., and well known as a breeder of Jerseys, is now living in Denver, Colo. When
Dr. Shirley closed out his cattle he kept a
couple of his best cows and took them with
him to his new location, One of these cows,
Bonnie Mac. a 500-pound cow, dropped a
lovely bull calf February 7. Dr. Shirley
has no good place to keep the calf and offers to sell it very cheap. Thirteen dams
on its mother's side have butter records of
22 pounds in seven days and nine dams on
sire's side have records of 21 pounds and
better. The calf is a coolee one and can
be bought reasonably. Address Dr. W M.
Shirley, 1734 Welton St., Denver, Colo.

G. S. Hamaker held his annual sale of G. S. Hamaker held his annual sale of big type Foland China bred sows Friday, February 24. The sale was held at the farm, one mile west of Pawnee City, Neb., and was well attended by farmers and a goodly number of breeders from Nebraska and Kansas. Col. L. W. Leonard made a nice opening talk, saying among other things that the glits to be sold were the test that had ever been offered in Pawnee ccunty. C. P. Jones of Cortland, Neb., tropped the sale at \$112, buying the Big Hadley sow Lena, No. 3 in catalog. The 39 head sold averaged \$46.75, A list of leading sales follows:

TAO.		
2.	J. R. Pfander, Clarinda, Ia	107
3.		112
4.	D. Butler, Pawnee City	49
6.	Wm. Martin, Pawnee City	41
6.	O. Fitzsimmons, Pawnee City	35
7.	Jake Brown, Pawnee City	31
9.	Wm, Starr, Pawnee City	31
10.	T. J. Meisner, Sabetha, Kan	70
11.	Jake Brown	45
12.	John Pyle, Pawnee City	41
18.	Dee Butler, Pawnee City	49
14.	A. J. Cope, Pawnee City	37
16.	W. R Webb, Bendena, Kan	52
16.	Frank Kasha, Washington, Kan	48
17.	John Herold, Lewiston, Neb	41

### PURE BRED POULTRY

BUFF ORPINGTONS—PEN HEADED son of Madison Square first cockerd; ill per 15. N. F. Alspaugh, Lincolnville, En

EGGS—ALL VARIETIES OFFINGTON Leghorns, Minorcas, Wyandottes, Red Reds, ducks, geese, turkeys. Wm. Keel Co. Hampton, Iowa.

WHITE ORPINGTONS, KELLERSTRISTANT, eggs from birds scoring 92½ 10 by Emery \$3 per 15; cockerel scoring \$2.5 W. B. Deemer, Carthage, Mo.

S. C BUFF ORFINGTONS — ONE Farms strain; free from all disquality tions; cockerels make 10 lbs. in 9 ms don't waste time and feed on scrubs; me furnish you money makers as fise any one has for very reasonable prices or press charges paid. Write me now. 6.

#### PLYMOUTH ROCKS.

SNOW WHITE ROCKS—BEST sccres 95 ½ each; \$1.50 for 15: utility \$3.50 for 100. Indian Runner duck \$1 for 15; \$5 for 100. Clarence Clarksville, Iowa.

#### LANGSHANS.

BLACK LANGSHAN CKLS.—reasonable: eggs, \$1 for 15; \$3 for chicks 15c each. W. S. L. Davis. View Yards, Nickerson, Kan.

BOURBON RED AND White Holland turkey eggs. Tipton, Versailles, Mo.

CHICKS 12½c EACH. EGGS. S. C. W.| Leghorns. A. M. Ho toona, Kan.

SUNNY DELL FARM—BOURHON BE turkeys, extra fine in color: eggs \$2.50 12. S. C. R. I. Rods, special mating are red. \$1 per 15; \$2.50 per 50. S. C. Leghorns, extra fine, bred to lay; \$4.50 experience; \$1 per 15, \$4 per 100. Mrs. I. Wooddall, Fall River, Kan.

Elmer McCaughney, Pawnee City.

John C. Helderman, Burchard, Neb.
Aug. Sahffer, Pawnee City.

John Pyle

John McNair, Pawnee City.

John Harold John Pyle

John McNair, Pawnee City
John McNair, Pawnee City
John Herold
W. D. Stoneberger, Pawnee City
A. R. Rystead, Mankato, Kan
John Herold
C. A. Brown, Fawnee City
Aug, Shaffer
W. D. Stoneberger
C. A. Brown
O. Fitzsimmons
Aug, Shaffer
O. Fitzsimmons
A. R. Rystead
M. L. Ayers, Shenandoah, Iows
O. S. Coither, Pawnee City
Perry Hudson, Smith Center, Kan
Pete Thomas, Pawnee City

4, 1911

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City

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Sale Postponed to March 17.
Owing to the unfavorable condition of the weather the Manderschief Poland
China isale advertised for Poland china sale adversed for Particularly 18 was pustponed until March 17. See ad in sett week's issue and amange to attend the sale on March 17. The offering of bred sows are in fine condition. Many of them will farrow before this late, but they will either be soid with litters or others substituted in their or others substituted in their place equally as good. See ad in next week's issue. 

Farmers' Institute at Berryten.

Every one from far and near attended the Berryton Estimate, which was held at the Berryton Hall February 9 and 10 About 200 persons attended each session. The meating was called to order by President J. E. Fingling, who made a few very appropriate remarks. This was followed by an address of welcome by Dr N. J. Taylor, to which George W. Berry made the resnonse. Following is the program in detail

Thursday Afternoon, of Conditions Generally"-Mr. "Telephone

Moore.

Music-Berryton orchestra.

"Importance of Drainage and Proper
Construction"—V. R. Parkhurst, county en-"Hogs"—George W. Berry, Topeka, Thursday Evening.

Music—Berryton orchestra.
"The Face on the Floor"—Miss Edna Mo-The Education of the Farmer's Children"

"The Education of the Farmer's Children"
Music—Ed Boles.
Song—Charles Havekott,
"Farming Under Glass"—John Kissier.
Music—Pleasant Hill quartette.
"Butter Making"—F. J. Zeiglar,
"A Talk by an Irish Friend"—Jim Caulk,
Music—Berryton orchesta.
Friday Morning,
"The Helpful Hen"—Wm. Dixon.
"Profits of the Farm Dairy"—C. C. Whiteer.

Dinner

Kriday Afternoon.

Music—Berryton orchestra,
"The Farmer's Inning"—Wm. Galloway,
Waterloo, Ia

Sclc—Mrs. Ward Odelt,
"Business Farming"—H. E. Keister, Waterloo, Ia

"Business Farmana"
(rico, Ia,
Music—Berryton orchestra,
Friday Evening
Music—Berryton crchestra.
"The Right Kind of a Horse"—John

Peck.
Violin solo—Perry Lewis.
Reading, "Aunt Malissy on Boys"—Miss
Clara Butterfield,
"Can We Farm for a Profit and Retain
the Fertility of the Soil?"—W H. Coultis.
Music—Mrs, Ward Odell.
"Pareeis Post"—Dr. N. J. Taylor.
"The Treubles of Rosenskey"—Louie
Cault

Caulk, Music—Pleasant Hill quartette, Music—Herryton orchestra, Song—Mrs. Ward Odell,
The meeting was closed with a vote of thanks to Mr. John Kissler, and also to Wm. Galloway and H. E. Klester of Water-

The following officers were elected for the tessing year: Fresident, T. B. Odell: vice president, W. L. Saunders; secretary and trasurer, Miss Elsie Carnahan, Reported by Miss Florence Messenger, secretary.

retary.

F. E. Muller, Hamilton, Mo., is offering some splendid Poland China sow prosopects in some June and July glits bred to your creer. If interested write him at once, for they won't "stay" long at the price he is quoting on them, as he needs the room for the sping crop which will begin to arrive March 4. They are bred as good as the best, being out of his best sows. One of them, Big Lady Tec. 135831, has two splendid prospects, sired by Our Look 159263, he of Grand Look. Queen's duality 113104 is proposed to the proper sping from the proper sping from the proper sping them to Kansas Farher readers, write him.

The Modern Farm Horse.

This office is in receipt of the catalog of the thin.

This office is in receipt of the catalog of the thin the series in receipt of the catalog of the thin the series one of the most comprehensive we say see on the gas tractor engine and its see for keneral farm work. In the book replaced on the gas tractor engine and its see for keneral farm work. In the book replaced the series of the see of the see

Ed Green Has Bargains.

Col. Ed Green of Florerce, Kan. has debeld to sell his imported Shorthorn herd scennic of having so many of his daughters on the herd. This is a shrw bull who has tate and county fairs and ought to go to sead some good herd. He will be priced

right. Col. Green also has five of Ardiethan Mystery's yearing bull solver out of good cows for sets. They are used ones and at the prices made on them could be sell apply. Write about these business or go to Florence and back them over. Hamilan Engages Businer when you write, please.

Seed Corn That Tests St Ber Cent.

The Airsworth family, long time corn growers about Mason City, Rit, are offering seed corn for sain, as will be moved by their modest little advertisements. It is a vare offer they smake; the move remarkable because it comes from such responsible people. They guessantee the seed corn they have to sell to test 8 per count fertility. Corn is thinped with the understanding that if it doesn't come up to the guessantee, your rown test, it can be returned and money not make. The Ainsworths, of nounce, know what they are doing They beheld to make Mason City and the Corn Bett, Ekradisthers, father and you have been growing the father and you have been growing the father and shout Mason City, something over 1,600 acres of it in the (smily. They are 80 bushels-to-she-acre people. All the com they well is grown under their own supervisions, and they know what kind if a guarantee they can put upon it. They send a plain, honest, most convincing catalog about their seed corn if you write for it.

Information Fundhed by the Great Western Automobile Co., Peru, Ind.—We are pleased to ar nounce that this company has received the honor of obtaining two orders from the United States government for Great Western "Forty" touring cars for government use. We are giving you this information because with the government facilities for investigating and determining where best material can be obtained it shows conclusively that the Great Western product is absolutely right. In these days of cheap machines we have to impress our prospective huyers with the strength of Great Western construction and with the quality of the material as well as the correctness of design. We are going to run a series of advertisements this year and our principal arguments will be quality and strength of construction throughout. These machines will be used by the Department of the Interior in the Indian service.—Great Western Automobile Co., February 13, 1911.

Larger Plant; Lower Prices.

Larger Plant; Lower Prices,
Gordon-Van Tine's Company's new plant
seven times larger than old one destroyed
by fire, Increased size and facilities for
handling building material reduces prices
oven more. The theory that the larger the
quantity handled in any line the lower it
can be sold is excellently worked out by the
Gordon-Van Tine Company, dealers in miliwork, roofing, lumber and building material
of all sorts of Davenport, Ia. For years

about 16 fine bred filts and a few young boars. However, he has 50 mass to farrow by June 1 and the large to be basic which is supply this mustament than ever before with registered annihila. Last week the necessed orders from California, Missouth Onio and Jowa which shows that the interest in this breed as general Please mention the Eansas Farmer when you write about these very heavy and public house.

Remers, as a class, are a mighty intelligent lot of men. A "good dee" on field anthure—on general farm methods, or about stack leading, should deem are to be to make the stack leading. If 11° got a great rared bettem of sound common sense. They at ance make it is there can and proceed to profit by it. If it proves only a "indust" of some theoretical writer who "farms it" on paper only—mir present day "bread sous" a grandlantals mean affectore the fact soul forest it. The American farme of solay is a student; and tecause he is, he is fast taking a commanding position; in wealth and influence. He is tilling his land better—studying the chemical composition of his soil, and adopting better methods of stock feeding. In this latter field he is doing wondern. The former uncertain any mastive condition of the cattle industry is giving away to methods so sure and sclentific, that leases are steadily growing less and meries greater. The so-called "Dr. He's Idea" undoubtedly is largely responsible for this change. It teaches a new gornel to the cattle men. It tells him that animal digestion may be so strengthened that the greatest proportion possible of the grain and hay a cow or steer eats will be answerted into milk or flesh, instead of going (as it the old system of feeding it does) to waste on the mamme heap. Dr Hoss, author of the new idea, is a doctor of both human and veterinary medicine, and has given years to the study of the problems involved in cattle raising. He knows the great strain which heavy feeding brings upon the organs of digection, and that they are likely to fail just when it is most necessary to keep up the stuffing process in order to catch a profitable market. To save the feeder this disaster, he has originated a tonic which gives "tone" to the digestive crosss and keeps 'took Food. Men see their neighbors growing prosperous through its use, and thus they, too, take kindly to the "Dr. Hess Idea." It means better days on the farm. It means profitable desirying—profitable feeding—fat hogs—prime als

The address also uppears who we. Interior The address also uppears who were the Three Three address also uppears who were the Three Three

above or you can get it from his advertisement on another page in this paper.

Bad Weather and Roads Interfered With Amocats' hate

What should have been the best Shorthorn sale held in Kansas this year resulted in a bargain sale last Tuesday, when 5. B. Amocats held his first sale. The sale had been well advertised and Mr. Amocats had left nothing undone that might add to the success of the event, but regulating weather or guessing successfully at what it will be is beyond the power of man, and Mr. Amocats needed at home more than anywhere clase, so the crowd was light and low prices prevailed. The average of \$90.18 would have been very good for the average breeder making his first sale. But the offering on this occasion was equal to or better than the stuff usually put into sales made by the oldest and best breeders. It is extremely doubtful if any breeder living in the West ever presented an offering equal to this one for his first sale. The crowd did very well for one so small and Mr. Amocats has no regrets and feels that the cattle go into good hands and will be an excellent advertisement for the herd in the future. The herd still numbers around 75 head and will be heard of often, as good herds are. Cols. Little and McCulloch did their work well, getting every dellar there was in the crowd. A partial list of sales follow:

Ashland Victoria. D. D. Stitt, Clay Center

Orange Blosams 33. J. P. Alexander,

Clay Center

Marjette, Alfred Johnson. 112.50

Carola 2, L. D. Hanson. (Lifton. 115.00

Naybelle, Alfred Johnson. 75.00

Naybelle, Alfred Johnson. 75.00

Naybelte, Paul Bralam, Clay Certer. 95.00

Nowbee Mary Belle 4, J. P. Alexan
der 75.00

Cedar Lawn Ruby, L. D. Hanson. 12.00

Cellae Bruce, Frank Fox, Louisville. 115.00

Collies. J. P. Alexander. 85.00

\*

I accept your special subscription offer and enclose my check for same. I did think I would stop the Kansas Farmer in favor of a home paper, but there is something about you that makes you stick to a friend like wax. I have a farm paper from Nebraska and one from Ohio, but the Kansas Farmer is one of the best.—Wm. Me-Dannel, Phillips, Neb.

### Hanson & Collins' Sale Postponed

On account of bad weather the Hanson & Collins sale has been postponed until March 15. Sale will be held at farm near Abilene, Kan. 50 recorded Poland China bred sows, 30 grade bred sows and 7 registered Angus bulls. Write for catalog.

#### HANSON & COLLINS, ABILENE. - -KANSAS.

this company has sold its materials at a lower price than they could be purchased anywhere else. This was in the days of their old plant, which was destroyed by fire on the night of November 27, 1909. Since the plant has been rebuilt to seven times its former size, the Gorden-Van Tine Company has been able to sell its material at even lower prices than ever before. The wonderful shipping facilities of the company make it possible to fill an order of any size almost instantly. Quick shipping facilities are further augmented by the enormous stock that is carried in the system of five storied warehouses. This ample storage space makes it possible for Gordon-Van Tine Company to carry everything that may be needed in stock all the time. In this way while the country is being scoursed to find the article he has ordered. Neither does he have to wait until it is made to fit his order. The instant an order is received the highly systematized machinery of the company is put in motion and, usually, within a few hours the order is on its way to its destination. One of the greatest savings offered by Gordon-Van Tine Company is in its architects' department. Its big free plan book willi tell the proospective house builder all he wants to know about the most modern and up-tc-date plans. Plans for all sorts of residences are contained in this book. The latest edition of the epoportunity-offering catalog of Gordon-Van Tine Company contains prices even lower than those quoted in any previous catalog. No reader of this paper should miss the opportunity obtain this free and wonderful money saving book. It may be obtained by writing to Gordon-Van Tine Company, 2215 Case St., Davenport, Iowa.

Bacomi Vield Seed Corn.

John Herold, Look Hox 14, Lewiston, Neh., starts an advertisement in this paper in which he offers seed corn for sale. For six years Mr. Herold has been breeding seed corn for heavy yields. In 1910, in spite of adverse mather conditions, he gathered from a measured acre 138 hushels. This by standard weight, not by dry measure. This is the record yield for Nebraska. Mr. Herold is a live stock breeder of wide and good reputation as well as a zorn breeder. He says high priced land demands high yielding corn. He started out to get the best and has succeeded in his offort. Kansas farmers can make no mistake to plant seed corn from southeastern Nebraska. We invite our readers to write Mr. Herold at above address. He sells his seed corn for a reasonable price and is always glad to answer questions.

Mule Foot Hogs.

John H. Dunlap of Williamsport, Ohlo, is the largest breeder of mule foot hogs in this country if not in the world. His business is growing very rapidly and his sales have been so numerous that he only has for sale

Guaranteed Ninety Per Cent Incubators.

Guaranteed Ninety Per Cent Incubators.

The pertrait on page 16 is of Sam Thompson, Fairfield, Neb., the famous maker of incubators guaranteed to make 20 per cent hatches. When Thompson began to advertise his 90 per cent guarantee, another incubator maker who had been longer in the business than Thompson said, "Thompson has no right to advertise a 90 per cent guarantee. It makes the rest of us look like school beys in the business—we who have never dared to make such a big guarantee." "But," said Thompson's neighbor, to whom the other incubator man was talking, "Sam has a right to make just that kind of a guarantee. He has the incubator to back it up and make good on it, too." "In that case," said the incubator maker, "the rest of us will have to get husy mighty quick and produce better machines or we won't last very long in spite of sur big advertising. The fellow that delivers the better article is the man who finally gets the big business." These remarks by a competitor of Thompson's show that Sam's incubators. They show that Thompson has set a pace that has caused poultry raisers all over the country to exclaim, "I never thought it possible that an incubator could do such perfect work as the Foirchild." Every intending incubator and brooder buyer will only be consulting self-interest by writing at once for Sam Thompson's wonderful incubator book and learn all about the Fairfield; what it is doing for thousands of others; about the remarkable 90 per cent hatching guarantee, and last but not least by a long ways, about the very small prices Fairfield incubators and brooders are sold for. Don't delay writing. Look up the advertisement elsewhere in this issue or use the address at the head of this. at the head of this. ...........

I am entirely sold out of hogs, so must stop my advertising in Kanses Farmer until I catch ap. Will be with you again.—C. O. Anderson, Duroc Jersey Breader, Manhatian, Kan.

Hetter Implements for Less Money,
This is the slogan which the David Rankin Mfg. Co., Box 51, Tarklo, Mo., has set
for its business of manufacturing and seliing direct to the farmers of this country
high class, up-to-date farm implements and
silos. During his lifetime the late David
Rankin was a most practical farmer. He
succeeded in a large way in making farming pay as a husiness. In his lifetime, as a
farmer, he often felt the need of special
farm machinery Something of greater and
greater capacity, of durable construction,
and which would save labor cost was what
he was always on the look-out for. These
needs eventually brought forth such machines as the famous Rankin Two-Row Cul-

of Stairs Complete for

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Build That House or Barn NOW and Save Money in Big Chunks!

o celebrate the completion of our new fireproof plant, we have started a sale tartled the country. So great are the price reductions, so vast and varied is the so wonderful are our new facilities for quick shipment, that the public is sin paralyzed. If you are ever going to remode repair your house, barn or other buildings, if you are ever going to build Material, now, now, now is the accepted time—the supreme opportunity to save big money—to make every dollar go twice as far as before. Such stupendous bargains; such money, saving effers, such high quality for so, little money, may never, never, never come again. Delay may cost you dearly. the supreme opportunity to

Money, may never, never come again. Delay may cost you dearly.

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You can't put your finger on the map of the United States without locating a Gordon-Van Tine customer! We have been in the Building Material business since 1865. Our business motto is the Golden Rule.

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'e assure prospective customers that the perfectly secure in sending the money wit is orders, as we understand that if good a not entirely satisfactory they may be reurned at shippers' expense and the money will be promptly refunded. The officers of this company are well and favorably known to us, and may be rolled upon to do exactly as they agree.

J. H. HASS, Cashier.



\$1,827 builds this 8-room house con we will furnish you all the ber and Miliwork, including plans, for



\$1.164 builds this barn, 32x44. We will furnish.



\$2,474 builds this 7-room house complete will furnish all Lumber and Millingly plans, for \$1,022.



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of feet of Flint-Coated Felt. waterproofed with Asphalt, surfaced with Flint and Mica-at less than half regular prices, for quick clearance Every roll guaranteed 5, 8 or 10 years, according to weight, Ask for Free Roofing Cataleg.

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Beautiful Mantels. Grates and Fireplace Fittings al-most given away. You will be surprised at the small cost, Grand Free Catalog gives pic-tures, prices and descriptions. Porch Column Porch Millwork

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\$2,238 builds this beautiful bungalow and millwork, including plans, for \$868.

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