



Volume XLIII. Number 49

TOPEKA, KANSAS, DECEMBER 7, 1905

Established 1863. \$1 a Year

TAKING SCHOOL LAND.

EDITOR KANSAS FARMER:—Will you kindly send me details of taking school lands in the western part of Kansas? What are the rules regulating lease and purchase of the same and the cash to be paid out? Also, what per cent of interest? If you lease and put improvements on the same, how will it be at the time of sale?

GERHARD DALKE.

Marion County.

The details of the provisions of the law for the disposition of school lands are so intricate and of such length that they can not with propriety be given place here. These provisions are contained in chapter 21 of the school laws of 1895 as compiled by the State Superintendent. The school officers of

called "base lines," certain other east and west lines called "standard parallels," also township and section lines. Three of the corners of every quarter-section are located by the Government survey, but the corner at the centre of the section is not determined. This corner is easily located, however, by finding the intersection of the half section lines, and for this provision is made in the laws of Kansas. Thus, the Government survey may be said to divide the land into quarter-sections, but it does not determine the boundaries of subdivisions smaller than the quarter section.

The Federal law further provides that if, in the division of a township into sections and quarter-sections,

rods from north to south. If, now, it is proposed to divide this piece of land into "eighties" by a line running east and west, the south half contains no more than the north half. Each owner gets a half of the quarter section, as determined by the Government survey.

WAGES FOR HOLIDAYS.

EDITOR KANSAS FARMER:—I note in the KANSAS FARMER of November 23, page 1185, the article "Teachers and Public Holidays." Does Supt. I. L. Dayhoff mean to ignore Sec. 173, School Month (6197)—"A school month shall consist of four weeks of five days, of six hours per day?" (Laws 1876, ch. 122, art. 5, sec. 2,). I can not see how a school board can comply with

order and keep 20 days school a month as provided by law, and give a teacher a day off and pay for the same out of those 20 days and not interfere with the aforesaid section. You will confer a favor on me and no doubt, on many others.

JOHN PETERSON.

Labette County.

State Superintendent Dayhoff's rather caustic reply to Mr. Peterson's former inquiry seems to have failed to convince Mr. Peterson of the correctness of the State Superintendent's ruling. And the ruling seems scarcely in harmony with the wording of the law as correctly quoted by Mr. Peterson. Further, usage is not uniform. In perhaps a majority of the cities the holidays are given to the teachers; are not made good by teaching on other



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your district doubtless have a copy of this compilation and will be glad to oblige you by giving opportunity to study it.

"FRACTIONAL" DIVISIONS OF LAND.

EDITOR KANSAS FARMER:—Will you please inform me through the columns of your paper on what part of the section does the shortage come legally, said section being on the north side of the township? Would the shortage come in on the north one-fourth or the north one-half of the section.

Phillips County. W. F. THOMAS.

Under the Federal law governing the survey of public lands provision is made for establishing certain north and south lines called "principal meridians," certain east and west lines

there be found any excess or deficiency in the amount of land, such excess or deficiency shall be placed upon the north and west portions of said township. In pursuance of this statute, the instructions of the Surveyor General direct that all measurements shall be made full except the last half-mile on the north and the last half-mile on the west in each township. This places the excess or the deficiency in the north half of sections adjacent to the north line of the township and in the west half of sections adjacent to the west line of the township.

Suppose, for illustration, that the piece of land alluded to by our correspondent is the N. W. $\frac{1}{4}$ of section 5. This quarter must be 160 rods from east to west, but it may be only 159

the State Superintendent's ruling as to holidays and at the same time comply with the above, as far as wages are concerned.

To observe those holidays is proper and becomes the duty of every law-abiding citizen; and it has been done in our district; but the teacher always has made up those days at the close of the school term without extra pay.

A school month was wisely established by days and hours in 1876 by the Legislature and is iron-bound. I don't see how Mr. Dayhoff can squeeze a day's wages in there without keeping school. A school month is not a calendar month in the eye of the law. Will you please state in the KANSAS FARMER how a school board can comply with State Superintendent's

days; and no deduction is made from the wages on account of the observance of the holidays. In many rural districts, on the contrary, it is held that the teacher—and indeed every worker—must give service for every day's pay.

In other kinds of work there is also great variation. Most large concerns allow the holidays with full pay to all employees occupying clerical and higher positions, while a great many of these same large concerns require full time of all manual laborers and make deductions in the compensation to cover time not actually devoted to the service of the employer.

The farmer, who gets his compensation for what he does, who must feed the stock, milk the cows, and attend to a multitude of labors without regard

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Table of Contents

Alfalfa inoculation.....	1222
Apple orchards, alfalfa in.....	1222
Build cold storage houses, can farmers afford to.....	1222
Club department.....	1229
Corn-stalk for fodder.....	1221
Country, in the (poem).....	1228
Cows, ration for.....	1234
Dairy cattle improvements, the problem of.....	1234
Dairy farm, renting a.....	1234
Early days in Kansas, recollections of.....	1228
Farmers' institute work, the.....	1233
Farmers' organization.....	1220
Fattening hogs, rations for.....	1223
Grind corn for stock, does it pay.....	1223
Holidays, wages for.....	1219
Land, "fractional" divisions of.....	1219
Little ones, for the.....	1227
Missouri State Dairy Association, the.....	1232
Oviedo and Asturias.....	1226
Poultry pointers.....	1238
Roosevelt reforms.....	1220
Strength, word of (poem).....	1229
Taking school land.....	1219
Veterinarian, the.....	1232
Wheat, shrinkage of.....	1222
Wonderland (poem).....	1227

to holidays, and to whom neglect of such labors would mean loss far greater than the wages of a day; the farmer who obtains his remuneration at first hands, naturally looks at the question of holidays from a different viewpoint than that of the salaried official. His labor and his land produce the wealth that pays all others. He is not likely to regard as equity a construction of law which, while it can not excuse him from laboring every day under heavy forfeiture, would allow his servants days off on full pay.

It is probable that if this question shall get into court it will be held that the teacher who has contracted for so much a month for so many months in a district in which it has been customary to do 20 days' teaching for a month, making up for holidays by teaching Saturdays or at the end of the term, will be held to the customary construction of the contract in the district he serves.

No such question is likely to get into court from a district in which the contrary custom prevails.

ROOSEVELT REFORMS.

The last few months have witnessed the exposure of the most flagrant and systematic "grafting" in insurance business in New York. So too, the official investigation has disclosed the appropriation of the sacred insurance moneys to pay political campaign expenses. The money madness of persons who have been entrusted with savings which in many cases represent severe sacrifice of needed present comforts is beyond belief except on the most conclusive evidence.

The showing made by the New York investigating committee brings to remembrance the terms "octopus," and

"money-power" so familiar in political campaigns in the West a decade ago. "The great red dragon" would be no misnomer with which to characterize the organized appetite for plunder which permeates some of the most prominent financial interests and has dominated great cities and great States.

There is as great a need for the "square deal" as was ever manifest. The aggressive position taken by the President seems to have awakened a conscience not before known to exist. The spirit of reform is following the leadership of Roosevelt. It will be well, however, for the "rank and file" to observe that certain of the business interests of the country are inaugurating a systematic attack upon the wisdom and even the honesty of the President's purposes. There was never a chief executive who was as truly a leader of the masses of the people as is Roosevelt. His fearless aggressiveness for what he conceives to be right will be hard to undermine. But, beware of the attempt. The President is not exempt from liability to error, but he is the most capable leader who has ever championed the cause of the people against despoilers. The attempt to stampede his followers should and doubtless will fail. If any think of deserting, let him remember that the "square deal" proposed and championed by the President is behind the reforms being wrought in the management of the great financial institutions of the East and is likewise behind movements for the betterment of conditions affecting the common people's interests everywhere.

Congress is now in session. Members of both houses have been somewhat annoyed at the frequency with which Roosevelt has been quoted as having the right ideas as to public measures needed. The fact of this slight annoyance need not deter constituents urging their Senators and Representatives to favor the Roosevelt plans. Under all circumstances it is well for the man on the farm, in the factory, in the store, everywhere to write freely and fully his views to his Senators and Representatives at Washington.

FARMERS' ORGANIZATION.

EDITOR KANSAS FARMER:—Myself and neighbors contemplate forming a good-roads club connecting it with general agricultural and live-stock interests. If you will kindly oblige us with a statement of some specifications or forms of organization through the old reliable KANSAS FARMER, they would be thankfully received. A majority of the farmers here are subscribers to that valuable and ably conducted paper and more will be in the near future.

W. J. COLVIN.

Edwards County.

The less complex the organization the more work along the lines of the principal objects, is the general experience. It is well, however, to have a written statement or constitution to define the purposes and form of organization. Such statement serves to give definiteness to the proceedings. The following outline may be taken as a guide:

Constitution of the

Article 1. Name.

The name of this organization is ...

Article 2. Purposes.

The purposes of this organization are to promote the good-roads movement and to advance the agricultural and live-stock interests of its members.

Article 3. Membership.

Any person may become a member of this organization by paying an initiation fee of

Article 4. Officers.

The officers of this organization shall be

President,
Vice President,
Secretary and
Treasurer.

Their duties shall be such as usually devolve upon such officers.

Article 5. Meetings.

Regular meetings of this organiza-

tion shall be held Special meetings may be held on call of the President.

Article 6. Amendments.

This Constitution may be amended at any regular meeting on the vote of two-thirds of the members present.

If other provisions are desired, they may be easily added. In some cases an executive committee is provided for. Such committee may consist of certain of the officers or it may be composed of other members. In some cases the program of meetings and assignments of parts therein are referred to the Executive Committee. In other cases the program is arranged by the president and in still others by the secretary.

The constitution is sometimes supplemented by by-laws which enter specifically into the mode of procedure, the duties of members, penalties for delinquencies, etc.

In starting an organization it is well to make the constitution as simple as possible, amending it or substituting a new one later, if experience shall indicate the need of change.

The 48th annual meeting of the Missouri State Horticultural Society will be held at the Coates House, Kansas City, December 28, 29, and 30, 1905. The program is full and fine.

Russia, defeated by Japan, now in the throes of turbulent attempts at revolution, presents a striking example of the woes of an ill-governed people. The Czar is not secure from assassination at the hands of those upon whom he depends for protection; the nobles are liable to attack at all times; the Jews are sufferers by frequent fanatical outbreaks during which many are murdered; the army and navy are full of treason; the soldiers who fought against Japan are unable to return on account of the universality of the strike; while industry is paralyzed and the populace in general suffering. Unhappy Russia!

A Lesson on Bookkeeping for Farmers.

H. G. PHELPS, MONTANA COLLEGE OF AGRICULTURE.

HOW TO OPEN YOUR BOOKS.

The first thing necessary to do in opening a set of books, whether at the beginning or in the middle of the year, is to make a list of all property and debts. This is known as Inventory and includes such items as Farm, Machinery, Implements, Seed Grains, Horses and Mules, Live Stock, Poultry, Cash on Hand, Cash in Bank, Notes Receivable, Notes Payable, Accounts Receivable, and Accounts Payable, Mortgages Payable and Mortgages Receivable, etc. Each farmer would have some accounts different from his neighbors, but in the main they would be very much alike. When this list is made it is an easy matter to write in a journal and from there post it to the ledger. The accounts would then be properly opened and ready to receive the daily routine transactions.

The summary taken from above items would appear thus:

RESOURCES.

Farm, 160 acres, valued at.....	\$8,000
Machinery, valued at.....	1,500
Implements, valued at.....	500
Grain, valued at.....	350
Work stock, valued at.....	800
Live stock, valued at.....	1,250
Poultry, valued at.....	120
Cash on hand and in bank.....	1,400
Notes receivable, W. V. West's note.....	480

Total resources.....\$14,400.00

LIABILITIES.

Mortgages payable, held by bank	2,500
Hopkins & Stone, Store account	225

Total liabilities.....2,725

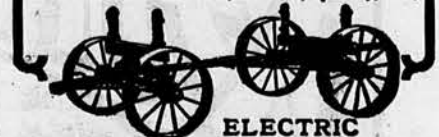
Proprietor's net worth.....\$11,675

Each item among the resources would be posted to debit or left-hand side of its proper account in the ledger. Each item among the liabilities would be posted under proper head to credit side of ledger. The proprietor would be credited for his net worth. The ledger would then stand in perfect balance.

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Agriculture

Corn-Stalks for Fodder.

I am running a large farm in Linn County, Kans. In discussing the question with the man who runs my farm, he claims that it does not pay to cut up corn for fodder, and I wish you would please give me your views on this question, as to the difference of the food-making properties of corn-stalks that stand in the field and the corn-fodder that is cut up. I claim that it pays to cut up the corn-fodder for cattle, and would like your opinion in the matter.

JOHN H. BOVARD.

Jackson County, Mo.

A great deal has been said and published regarding the feeding-value of corn-stover. Almost without exception the general conclusion of those who have published their experiments and experience on this question has been that corn-stover makes valuable roughage for feeding stock and that it pays to put up the fodder rather than to husk the corn in the field and pasture the stalks.

Chemical analyses of corn and corn-stover have shown that 40 per cent of the feeding-value of the corn crop is in the stalk and leaves, if the stover is properly saved. As a result of a large number of analyses, reported by Professor J. T. Willard of this station, in Bulletin No. 115, corn-stover containing 60 per cent of dry matter was found to contain 1.98 per cent of protein, 33.16 per cent of carbohydrates, and .57 per cent of fat. English blue-grass hay with 80 per cent of dry matter, as an average of several analyses, contained 4.2 per cent of protein, 43.34 per cent of carbohydrates, and 1.73 per cent of fat, while timothy hay contained about the same proportion of carbohydrates and fat as English blue-grass hay, but only 2.89 per cent of protein. The theoretical feeding-value of corn-stover hay, therefore, is equal to about two-thirds the feeding-value of timothy hay, or a little more than one-half the feeding-value of English blue-grass hay.

In feeding experiments conducted at the Wisconsin Experiment Station, as reported in Professor Henry's book, "Feeds and Feeding," it required on the average, about three tons of corn-stover to equal one ton of mixed hay, in the production of milk and butter, the same grain ration being used in each case. In this experiment the stalks were fed whole, and about 34 per cent of the coarser portion of the stalks remained unconsumed by the cows. When the stalks are shredded or cut up, the stock eat the stover more readily and with less waste. Corn-stover also makes a good roughage for horses in combination with a proper grain ration.

To make the best fodder or stover, corn should be cut before the leaves are dry and when the stalks are still succulent, and the corn is just fully glazed or nearly in the hard stage. At this time there is available the largest food-value per acre. It has been found however, that when the corn is cut to make the best fodder there is apt to be a slight decrease in the yield of grain. The old method of cutting corn by hand is slow and expensive, the use of the sled machine is to be recommended in preference to the hand-knife, while the corn-binder reduces the labor of harvesting and permits the work to be done more rapidly and perhaps at less cost than the other methods named. I have never used the corn-shocking machine, but where the practice is to cut up a large area each season this machine would seem to be preferable to the corn-binder.

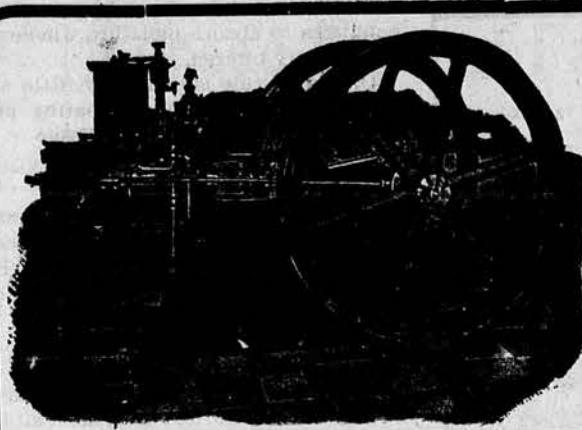
It seems like a wasteful method to pasture the stalks in the field, and in the Eastern and Middle States there is little question but that there is a profit to the farmer in cutting up the corn and carefully saving and feeding the stover. In these States land is high in price and forage is less easily and extensively grown than in the Western States. The question is, however, does

it pay to cut up the corn and save the stover in Kansas? In this State, in the best corn-producing sections, the stalks are usually large and coarse, also hay and forage can be grown, made, and saved with little expense compared with the Eastern States; and in fact we need to grow grasses, legumes, and other forage crops in rotation with corn, and it is my judgment that the roughage needed for feeding our cattle and other stock may be more cheaply produced by planting crops specially for this purpose, rather than to depend upon securing this roughage by cutting up the corn and saving the stover.

Experiments carried on at the Alabama Experimenting Station, as reported in Bulletin No. 111, show that as an average for three years, 1898 to 1900, corn which was cut for fodder yielded 3.3 bushels less per acre than corn which was left and husked in the field. In that State roughage is evidently scarce and dear, since the stover was valued at \$6.00 per ton, but even at this figure the difference in favor of cutting the corn, as an average for three seasons, was only \$4.42 per acre. If 1 ton of mixed hay is equal to 3 tons of corn-stover in feeding-value, then it will be fair to estimate that 1 ton of alfalfa hay is equal to 4 tons of stover. If alfalfa hay is valued at \$6.00 per ton, 1 ton of corn-stover is worth \$1.50. Figuring at a minimum rate, to cut and shock corn, using the corn-binder, will cost not less than \$1.50 per acre. To husk the corn from the shock by hand will cost at least 50c more per acre than to husk standing corn; to haul and stack or shred the stover will cost at least \$1.00 per acre; this makes the total cost of the corn-stover, put into the stack or mow, \$2.50 per acre. At this station 2 tons of corn-stover per acre is a large yield, which at \$1.50 per ton gives a total value of \$3.00 per acre, or a net saving of 50c per acre by cutting up the corn, provided of course that the yield of grain remains the same.

It is generally estimated that at least one-fourth of the stalks and leaves may be saved by pasturing the stalks in the field. Figured on the same basis as outlined above, the stalks will have a value of 75c per acre fed in this way and there will be a net saving of 25c per acre by husking the corn and pasturing the stalks in the field, as compared with cutting up the corn and feeding the stover. By pasturing the stalks in the field the cattle are fed without any labor on the part of the farmer, also the stalks which remain have some manurial value when returned to the soil. Of course if the stover is fed in the barn or yard and the manure is saved and hauled to the field, this fertility would be largely returned to the land in case the corn was cut up. However, as manure is usually handled on the average farm, there is apt to be a great waste, and then comes the expense of hauling and spreading the manure on the land. Stalks left on the ground catch the snow and thus increase the moisture supply of the soil, and there is little objection to the stalks in planting the succeeding crop provided the plan is followed which is now in general practice in this State, that of cutting the stalks up with the stalk-cutter and listing the corn, or the stalks may be plowed under when cut up with the cutter, and leave the ground in good condition for planting.

If for any reason it is desirable to have the land cleared of stalks, then it may be best to cut up the corn provided any use can be made of the stover. Also, in certain seasons when there is a shortage of forage, it is often desirable to cut up the corn. In general, however, I would recommend to plant crops especially for forage rather than to depend upon cutting up the corn which is planted principally for grain. Corn makes an excellent fodder-crop when the whole stalk and ear are cut up and fed together; but if the purpose is to grow corn for fodder, it would be better to plant it thicker than if grown for the corn alone, in order to secure larger yields and produce a finer quality of stalk. In this



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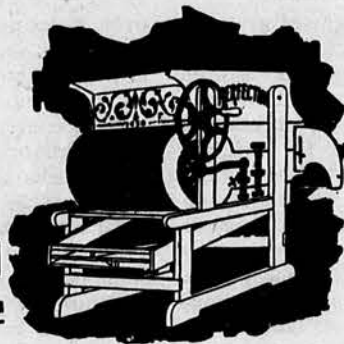
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State, however, where we can grow such large crops of sorghum and Kafr-corn, and which is so well adapted for growing alfalfa, clover, and grasses, these crops may be more economically grown for the production of fodder than corn, and in the sections of the State where corn is the main crop and the land is apt to be kept continuously in corn, the crops named should be grown in rotation with corn as well as to produce the forage required for feed on the farm.

A. M. TENEYOK.

Shrinkage of Wheat.

Shrinkage in the weight of grain is, of course, largely a matter of moisture and treatment. If grain is stored where conditions are favorable for the loss of moisture, it will shrink in weight in proportion to its original moisture contents. But usually the loss is neutralized by atmospheric conditions which retard evaporation from the grain and may even add weight to it by saturating it with atmospheric moisture, should the grain be in condition to absorb dampness. The shrinkage question is, therefore, more or less of a puzzle each season.

The experiment stations have, therefore, devoted much time to the study of shrinkage, and in general terms have found that overripe wheat weighs slightly less than grain harvested when just ripe. After thrashing the loss by shrinkage varies—from 2 to 5 per cent, according to the Michigan Station's reports.

Experiments made at the New York station two or three years ago showed a large loss of moisture on wheat stored in small quantities in net bags suspended from the laboratory ceiling. At thrashing, the moisture contents were estimated at 27.02 per cent (July 18), which by November 22 had declined to but 2.96 per cent; while samples taken from the interior of a mass of several hundred bushels showed a loss of about 5 per cent of the original moisture contents. The loss is rapid at first, slow afterward, as might be guessed.

In very dry climates, on the other hand, wheat seems to gain in weight while in winter storage, and especially so when shipped to a moist climate. In such climates, as in California and Utah, wheat cured in the field before storing is probably as nearly absolutely dry as it would be under any cir-

cumstances, and, of course, is in a condition to absorb moisture whenever opportunity offered.

Oats as a rule shrink very little after passing through the sweating process.—Elevator and Grain Trade

Alfalfa Inoculation.

Mr. J. N. Shirley, of Boone County, Ind., gives the Indianapolis News some valuable experience with alfalfa. He did not believe much in the inoculation theory, but actual experience on a twenty-acre field convinced him that successful growing of alfalfa depends upon it. Mr. Shirley happened to have an old field that had become self-inoculated, and he used soil from that field. In the absence of soil already inoculated, artificial inoculation is necessary, which can be done by the use of bacteria culture. Dr. Geo. T. Moore, of the United States Department of Agriculture, is our authority.

But we must let Mr. Shirley tell his own story:

Just about the time the second crop ought to have been ready to cut (in June or the first of July) I noticed the alfalfa was going to be a very short crop, and that much of it seemed to be dying as the leaves were brown and falling badly I concluded to try inoculating it. So I put two machines to work to clip it off, as soon as possible, and while part of it was still in the shock, I scattered several tons of soil over it, using soil from my oldest alfalfa field, that was of a very vigorous growth, although the plants were thin on the ground. I had very little faith at that time in what I was doing, and the neighbors passing, made all kinds of remarks about my scattering the soil over the field; but I kept on, as I did not want to lose my alfalfa. In a few days this sickly-looking alfalfa changed to dark green color, and I got two more nice crops of hay that (last) year. We cut four crops of hay on that field this year, making about six tons an acre at four cuttings.

I want to say that this changed my views on the "inoculating theory," and last spring, after sowing eight acres of alfalfa (May 20, 1904), I thought I would not wait a year to inoculate it. The alfalfa was up in four days nicely on this eight acres of inverted bluegrass sod. In about a week more we scattered six wagon loads of soil from a 7-year-old alfalfa field over it. I have never seen anything grow to equal it.

Now, I think much of this great growth of alfalfa is due to the fact of liberally inoculating the plants while young. My first sowings of alfalfa are all thin stands, and were very discouraging until the alfalfa began to inoculate itself at about two years old. I would have done, as 90 per cent of experiments with alfalfa do, i. e., plowed my alfalfa up, were it not that I had sowed a little red clover with it. I spared it on account of the red clover until the alfalfa began to inoculate itself. By disking this thin alfalfa early in the spring, and after each cutting (except the fourth), I got fine hay, from one and one-half to two tons an acre a cutting, and I have never plowed any of it up, as I regard it to be too valuable to plow for corn. Many others have had similar experiences to my own.

"The New Boy on the Old Farm." Naturally his father was somewhat doubtful of the new notions that John brought back to the old farm from the agricultural college, and John certainly made some mistakes; but it was soon admitted by the farmer and his neighbors that the old place was improving in looks, and by and by it was seen that neither the time nor the money spent at college had been wasted. This is one of many articles on farming which The Youth's Companion will publish during 1906. Its author is Prof. L. H. Bailey of Cornell.

He who puts on the towel of service, puts off a world of care. There is no surer and no readier remedy for our own cares than to try and lessen the cares of other people.—Mark Guy Pearse.

Horticulture

Alfalfa in Apple Orchards.

L. H. Knapp, of Syracuse, N. Y., has a 14-year-old apple orchard in alfalfa. The trees are models of thrift and business-like shape—in fact this orchard is noted throughout Central New York, says Rural New Yorker. It may well be a model orchard for Mr. Knapp has watched and tended it with more care than many farmers give to their children. The branches are trained up with a spreading habit, which opens the tree to the air and sun. Many of the trees were partly girdled by mice, and Mr. Knapp has shown great skill in bridge grafting. The most remarkable feature of the orchard is the thick sod of alfalfa, which is cut three times during the season and hauled to the barn for hay. The manure resulting from feeding it is hauled back and spread around the trees, and under this system the orchard has made a wonderful growth. It must not be thought that the alfalfa was seeded when the trees were planted. For eight or ten years the orchard was plowed and planted to crops like corn, beans or potatoes, which require thorough cultivation. It was then seeded to alfalfa, and since then the practice has been to remove the alfalfa hay, feed it and bring back the manure. Mr. Knapp considers this, for him, a more reasonable plan than the Hitchings method of leaving all grass to rot on the ground. The chances are that if the alfalfa were seeded when the young trees were planted the latter would be stunted and fall. The older trees stand it because their roots are deeper, and the manure gives them both mulch and food. There is a large barn on Mr. Knapp's farm. We thought at first that it was a relic of old days when sheep or cattle were fed on the place. On some fruit farms in Central New York these great barns are to be seen—empty. Years ago these farms kept a large number of live stock. Now having been given up to fruit the barns stand idle. This was not the case with Mr. Knapp's barn, for it was built to hold the alfalfa which is cut in the apple orchard. We never before heard of a case where the hay crop from an apple orchard has forced a farmer to build a barn. Mr. Knapp was quite emphatic in saying that many failures with alfalfa were due to a lack of bacteria in the soil. He believes that it will pay well to inoculate by adding soil from a field where alfalfa succeeds.

Can Farmers Afford to Build Cold Storage Houses.

The large cold storage houses in the cities are usually cooled by mechanical refrigeration. This method is too expensive for use on a small scale in the country. Ice and the natural temperature must be depended upon. The Illinois Experiment Station has reported the details of building a storage house capable of holding 2,500 barrels of apples and dependent upon ice for controlling the temperature. This house was built as simply and cheaply as possible and for the most part by unskilled labor. It cost when completed \$3,430.40. During the season 2,000 barrels were put into it by October 5 and 70 tons of ice put into the refrigerator. The temperature of the storage room fell rapidly after the ice was put in to about 33 degrees F. and this temperature, or a little lower was maintained throughout the experiment. The cost of storage per barrel of fruit in this building up to April 23, or about seven months, was 19.1 cents or 30.9 cents less than the usual charges for apple storage. Based upon these results it is estimated that the building, if stored to its full capacity each year, would pay for itself in five years.

The fruit in the building was examined from time to time during storage. Without exception it kept well. "There was no scald, no withering. The fruit remained plump and in perfect condi-

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tion, and the percentage of rotten fruits was very small." The results are believed to plainly show the utility of buildings of this character cooled by ice. "Commercial growers of apples can well afford to invest in similar houses and thus add greatly to their profits." * * * * *

The advantage of such houses located either in the orchard or in proximity to the nearest railway station or switch may be briefly stated as follows:

1. The selling period of fruit could be greatly prolonged.
2. Fruit could go from the tree immediately into storage and be cooled to such a degree as to prevent the ripening process.
3. Fruit could be stored in temporary packages and final grading and packing deferred until the hurry of the picking season was over.
4. In the event of scarcity or high price of barrels during the busy season, the fruit could be stored in bulk to be packed later when acceptable barrels could be obtained at satisfactory prices.
5. The facilities for handling the fruit would enable the grower to give better attention to the degree of maturity and pick at just the proper time.

Another problem studied by the same station was whether the small grower of fruit could afford to insulate a cellar and cool it with ice during the early part of the season, and later depend on the natural temperature. The conclusions arrived at from this work are to the effect that it is not economical to build a cold storage room in the ground. The earth is too good a conductor of both heat and cold. The amount of ice required in the early part of the season was excessive and could not be relied upon to reduce the temperature of the cellar to a sufficiently low degree. Later when the admission of outside temperature was relied upon, fluctuations that were detrimental could not be avoided. "As a consequence of fluctuating and commonly too high temperature, the fruit did not keep well. The percentage of rot was quite high. But a possibly worse feature was that the sound fruit was more or less wilted."

The results of the work at the Illinois Station would seem to show that commercial fruit-growers or communities where considerable quantities of fruit are grown might profitably erect cold-storage houses cooled with ice rather than pay the usual charges of 40 cents per barrel, and further that insulated cellars do not make satisfactory cold-storage rooms. The temperature can be more easily controlled in buildings built above the ground than in those built in the ground.—Kansas Agricultural Review.

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The Stock Interest

THOROUGHBRED STOCK SALES

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

Dec. 8 and 9, 1905—Poland-Chinas, Duroc-Jerseys, Shorthorns and Herfords at Coffeyville, Kans. H. E. Baeholder, manager, Fredonia, Kans.
Dec. 12 and 13, 1905—Imported and American Herefords, Armour-Funkhouser sale at Kansas City, Mo. J. H. Goodwin, Manager.
Dec. 14, 1905—Berry Lucas, Hamilton, Mo., Aberdeen-Angus.
Dec. 20, 1905—J. R. Young, Richards, Mo., Poland-Chinas.
December 21, 1905—Poland-Chinas. A. P. Wright, Valley Center, Kans.
Dec. 20, 1905—J. R. Young, Richards, Mo., Poland-Chinas.
December 21, 1905—American Aberdeen-Angus Breeders' Association, Aberdeen-Angus, Chicago, Ill. W. C. McGavock, Manager.
Dec. 28, 1905—American Galloway Breeders' Association sale, Chicago, Ill.
Jan. 5, 1906—S. A. Converse, South Omaha, Neb., Red Polled Cattle.
Jan. 11 and 12, 1906—Oklahoma Improved Stock Breeders Association, Stillwater, Okla.
Jan. 17, 1906—Poland-China bred sows, H. E. Lunt, Burden, Kans.
Jan. 18, 1906—Poland-China bred sows, Marshall Bros., Burden, Kans.
Jan. 19, 1906—Duroc-Jersey bred sows, Marshall Bros., Burden, Kans.
February 13, 1906—Jno. W. Jones & Son, Duroc-Jersey bred sow sale at Concordia, Kans.
February 15-17, 1906—Third Annual Sale of the Improved Stock Breeders Association of the Wheat Belt at Caldwell, Kans., Chas. M. Johnston, Sec'y.
Feb. 20, 1906—M. S. Babcock, Nortonville, Kans., Poland-Chinas.
February 21-23, 1906—Percherons, Shorthorns, Herefords at Wichita, Kans. J. C. Reibson, Manager, Tewanda, Kans.
Feb. 24, 1906—Poland-Chinas, at Wichita, Kans. by H. E. Lunt, Burden, Kans.

Rations for Fattening Hogs.

Please tell me which is the cheapest for fattening hogs, shorts at \$16 per ton or corn at 34c per bushel. How much pork will one bushel of corn make, and how many pounds of pork will one bushel of shorts make?

Neosho County. C. E. BANKS.

From a large number of experiments in the feeding of corn, it has been estimated that on an average about 11 lbs. of pork will be produced per bushel of corn. While there is not so much data on the feeding value of shorts alone for the production of pork, it has generally been found to be somewhat more valuable than corn. What is known as ship stuff or middlings has been compared directly with corn by several experiment stations. In one case the middlings proved very much superior to corn, it taking 502 pounds of corn to produce 100 pounds of grain and 367 pounds of middlings to produce 100 pounds of gain. The milling by-product now sold as shorts is not so rich, however, as middlings, or ship stuff. The chief value of shorts is to give a little variety to the ration, and it will always be found that the combination of corn and shorts will give better results than either one alone.

With corn at 34c per bushel which is about \$12 per ton for shelled corn, and \$16 per ton for shorts, corn would be the cheaper feed for fattening hogs, considering either one alone. At the Colorado Experiment Station a hundred pounds of gain was produced with 432 lbs. of cornmeal alone and 406 lbs. of shorts and cornmeal, equal parts. In this experiment a hundred pounds of gain cost \$2.74 with the corn and shorts ration, and \$2.80 with the cornmeal alone, shorts however, was valued at \$14 per ton and corn at \$13.50 per ton.

I think in your case, it will pay you to feed some shorts to your pigs in connection with corn, making the shorts about one-fourth or one-fifth of the total ration given. If you had some nice fourth cutting alfalfa hay, you could give some of this to your fattening hogs to good advantage and feed corn alone for grain. You would find that they would consume considerable alfalfa hay and would eat their grain with better relish and keep in better condition generally. While corn is our cheapest fattening ration, it needs to be supplemented with other feeds containing more protein and mineral matter in order to secure best results.

Does It Pay to Grind Corn for Stock?

From your experience, does it pay to grind corn to feed to horses, cattle and hogs on the farm?

Mitchell County. G. H. DODGE.

This subject is somewhat difficult of discussion owing to the great variety of conditions existing, as to both the

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Agrostologist, U. S. Department of Agriculture

An intensely practical discussion of the farm grasses of the United States of America is presented in this volume. It is essentially a resume of the experience of American farmers with grasses, and it is safe to say that no other work has covered the ground so thoroughly. No attempt has been made to give a connected account of all the grasses known in this country, but the aim has been rather to give just the information which a farmer wants about all those grasses that have an actual standing on American farms. The whole subject is considered entirely from the standpoint of the farmer. One of the most valuable features of the book is the maps showing, at a glance, the distribution of every important grass in the United States; and the reasons for the peculiarities in this distribution are fully brought out. The principal chapters treat on the grass crop as a whole and the relation of grass culture to agricultural prosperity, meadows and pastures, the seed and its impurities; the bluegrasses; millets; southern grasses; redtop and orchard grass; brome grasses; grasses for special conditions; haying machinery and implements; insects and fungi injurious to grasses, etc., etc. The methods followed on some pre-eminently successful farms are described in detail, and their application to grass lands throughout the country is discussed. The discussion of each grass is proportional to its importance on American farms.

This book represents the judgment of a farmer of long experience and wide observations regarding the plan in agriculture of every grass of any importance in American farming. In its preparation its use as a text book in schools as well as a manual of reference for the actual farmer has constantly been kept in mind. The book is most conveniently arranged and splendidly indexed, so that the reader may find any subject at a glance. Illustrated. 5x7 inches. 248 pages. Cloth. Price, postpaid, \$1.00.

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Fifty-eight cattle consisting of 21 registered Shorthorn cows, 3 to 7 years old; 10 2-year-old registered heifers; 10 1-year-old registered heifers; 11 registered heifer calves; 5 registered bull calves and 1 2-year-old Cruickshank bull. All the above stock in good condition and will be registered in the name of the purchaser except those that are now registered. All bred 2-year-old and over. Do not fail to avail yourself of an opportunity to secure some of this stock from one of the best herds in the State at your own price.

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MENTION KANSAS FARMER.

grain and the animals. The horse which is required to do hard and steady work, having a short time only in which to eat his grain, should have all of the corn and oats ground. In like manner, the dairy cow producing large quantities of milk, would be considered a hard-working animal and should have the grain ground. Fattening animals, as a rule, may be pushed a little more rapidly on meal than on whole grain—there is more danger of getting them off feed, however. Idle horses or horses that are not worked very hard and colts may well grind their own grain unless it is so exceedingly hard as to be very difficult of mastication.

A series of experiments was conducted at the Wisconsin Experiment Station by Professor Henry, in which 210 pigs were fed cornmeal in opposition to whole corn, made an average saving of from 5 to 6 per cent with the meal-fed pigs.

In the experimental feeding of cattle at the Kansas Experiment Station, it required 6 per cent more of whole grain than of meal to produce a given gain. In general while 2 or 3 per cent may be saved by grinding the feed, it often does not pay for the grinding. When grains are high in price it more often pays to grind. This question will have to be solved by each individual feeder from the existing conditions at the time.

G. C. WHEELER.

Gossip About Stock.

F. C. Swiercinsky, Belleville, Kans., announces a Poland-China bred sow sale to be held on January 3, 1906. Watch for further announcements in this paper.

The Iowa Tanning Co., Des Moines Ia., who make a specialty of hides tanned for robes, have gotten out a nice little booklet about fur robes from your own horse or cattle hide, which they will send free to any readers who ask for it and mention the Kansas Farmer.

D. P. Norton, the veteran breeder of Shorthorn cattle, makes an announcement in this issue that he will close out his entire herd of registered Shorthorn cattle at public sale at his ranch three miles south of Dunlap, Kans., on Thursday, December 14, 1905. The offering consists of 58 cattle as described in the notice in the special want column.

Geo. Kerr, five miles south of Sabetha, Kansas, has one of the best herds of Duroc-Jerseys in this part of the State and his location is well adapted as a breeding farm. At the head of his herd is Crimmon Wonder 2nd 32475, a full brother of the first-prize hog at the Iowa State Fair. Mr. Kerr believes that his hog is the best in this Western country. His farm is connected by telephone with Sabetha.

Newton Bros., Whiting, Kans., breeders of Duroc-Jersey swine, received the following significant letter from H. V. Jeffers, Jefferson, Okla.:

"The pig came in in good shape. I am exceedingly well satisfied. He has the making of a top-notch. Give me descriptions and best price on two gilts of about 75 to 100 pounds weight. I suppose the certificate of registration will arrive soon. What do you feed pigs of his age? He won't even look at milk, shorts or flour."

The advertisement of A. P. Wright's Park-Place herd-sale appears in this issue. Our readers will remember the magnificent show-herd Mr. Wright had at the best of the Kansas fairs this year, at the head of which was the Grand Champion, Prince Proud, who was awarded the sweepstakes prize for best Poland boar, any age, at the Hutchinson fair. The sows of the offering will nearly all be bred to this great boar and the balance of the show-herd are included. Write at once for catalogue; it will interest you. Please mention the Kansas Farmer when writing.

A. G. Dorr, owner of the Osage Valley Herd of Duroc-Jerseys, Osage City, Kans., announces that he has for sale 85 head of boars and gilts, suitable for service, and gilts bred or open to suit customers. The sale stuff are by Orion Mc and Brilliant Jack. The stock is of prize-winning strains that have made the breed famous in the East. Mr. Dorr is confident that his stock is worth coming to see and he cordially invites intending purchasers to inspect his herd two and one-half miles from Osage City, or write for particulars and mention the Kansas Farmer.

The J. R. Cooper & Son sale the 25th,

at Winfield, Kans., was one of the best held yet this year in Southern Kansas. It was the most attractive offering, so pronounced by the breeders in attendance, both in breeding and individual merit to pass through a sale-ring in this part of the sale territory this year. The local attendance was fair, and there were a few outside breeders on hand, but not as many as would have been there had the superior quality of the offering been generally known. The mature sows averaged \$33, the entire female portion of the sale including late spring gilts many of them open. A few cents less than \$23 and the whole sale an average of \$18.55.

The Christmas number of the Breeders Gazette is something to feast ones eyes upon. From its beautifully colored cover clear through its 100 pages to the last advertisement it is full to the brim with reading matter of the most interesting and valuable kind. And the pictures! Page after page of the finest products of the engraver's art, each one illustrating some famous prize-winning animal or some beautiful phase of farm life. It is a work of art. There is only a limited edition of this magnificent number to be had but those who subscribe for the Breeder's Gazette and the Kansas Farmer, both for \$2, the price of the Gazette alone, will get it if they order quick.

For some years past, a sum of \$500 has been offered for competition to the students taking part in the Intercollegiate live-stock judging contest at Chicago. This fund was divided among the twelve highest ranking students, the man standing first receiving \$100 and scaling down to the twelfth man who received \$8. Thus far, no such sum has been provided for general competition for the 1905 contest. However, there may be some money prizes available for the students competing from the Ohio State University. Messrs. McLaughlin Bros., the horse importers of Columbus, offer \$60 to the three Ohio students doing the best work in judging horses. While Thomas Johnson, the Shorthorn breeder, and Denton Bros., butchers of Columbus, offer jointly the sum of \$60 to the three Ohio students doing the best work in judging cattle, sheep and swine. The first prize in each class will be for \$25; the second, 20, and the third \$15.

Read the following letter. It will interest you:

We take pleasure in announcing our ninth annual auction sale of imported and home-bred Herefords, to be held at the live-stock sale pavilion, at Kansas City, Missouri, on Tuesday and Wednesday, December 12 and 13, 1905.

If you are in need of a herd bull, or some fine imported or home-bred cows, do not let the opportunity pass of attending this sale. Pure-bred cattle are selling better all over the United States and there is no question but what next year will see the prices a great deal higher, so that now is the time for you to buy.

You will note that 42 of these cows are imported. These are from the English importations of Mr. Armour and are the pick of the best herds in England. They are strong in the blood of Lord Wilton and Grove 3rd, and if you want to introduce more or this blood into your herd this will be your opportunity. These cows are from four to six years old and are fine, heavy individuals, weighing from 1,300 to 1,600 lbs. each.

Twelve of the cows are Armour-bred, which you know means that they are bred right, and sired by such famous bulls as Beau Brummell, Jr., Young Kansas Lad, Lord Prettyface and Majestic.

Twelve of the cows are from the show herd of Mr. Funkhouser, being fine 2-year-old heifers from that famous herd, from which it would be impossible to select anything but a prize-winner or from a prize-winning family.

Sixteen cows will have calf at foot by Mr. Armour's fine herd bulls, Majestic, Armour Anxiety, Bell Metal and Ten Strike. Not only are these calves of the best breeding, as shown by their pedigrees, but every one of them is a fine looking animal. In ages these calves will run from one to five months at time of sale.

All the cows not with calves at foot, are bred to calf within three or four months after date of sale.

The eleven bulls which will be sold will be as fine a lot of youngsters as you could possibly want to select from, ten of which were bred by Mr. Funkhouser and one is an Armour bred bull. Of these bulls four are by the great March On 6th, winner of the Armour Cup in 1902, and many firsts and championships at different State fairs. Two of the bulls are by Majestic, the best bull that was ever at the head of the famous Armour herd. One of the bulls to be sold is Columbus 60th, a son of Old Columbus and a full brother of Columbus 17th, who holds the Kansas City auction record for pure-bred cattle of any kind, having sold for \$5,500.

Read this letter from A. P. Wright,

Horse Owner's Use GOMBALTS. Caustic Balsam

A Safe, Speedy, and Positive Cure
The safest, Best BLISTER ever used. Takes the place of all liniments for mild or severe action. Removes all Bunches or Blemishes from Horses and Cattle. SUPERSEDES ALL CAUTERY OR FIRING. Impossible to produce scar or blemish. Every bottle sold is warranted to give satisfaction. Price \$1.50 per bottle. Sold by druggists, or sent by express, charges paid, with full directions for its use. Send for descriptive circular.
THE LAWRENCE-WILLIAMS CO., Cleveland, O.

Ring-Bone

There is no case so old or bad that we will not guarantee
Fleming's Spavin and Ringbone Paste to remove the lameness and make the horse go sound. Money refunded if it ever fails. Easy to use and one to three 45-minute applications cure. Works just as well on Sidebone and Bone Spavin. Before ordering or buying any kind of a remedy for any kind of a blemish, write for a free copy of
Fleming's Vest-Pocket

Veterinary Adviser
Ninety-six pages of veterinary information, with special attention to the treatment of blemishes. Durable, bound, indexed and illustrated. Make a right beginning by sending for this book.
FLEMING BROS., Chemists,
219 Union Stock Yards, Chicago, Ill.

HOGS WILL MAKE YOU RICH
Send 10c for a whole year's trial subscription to the best hog paper in the world. Free sample.
SWINE BREEDER, Lincoln, Neb.

DES MOINES TANNING CO.

Hides Tanned and Mfg. into Coats, Robes, Rugs, Etc.
WE GUARANTEE OUR WORK

DES MOINES TANNING CO.
Des Moines, Iowa.

WRITE FOR FREE BOOKLET NO. 61

Farmer's Account Book and Ledger

Saves time and labor—a few minutes each day will keep it; systematizes farm accounts in every department; shows in the simplest manner how to increase profits and decrease losses; endorsed by farmers everywhere. We stand ready to refund the purchase price on every book not found satisfactory. Write to-day for free circular describing the book in detail. Address
H. G. PHELPS & Co., Bozeman, Montana.

\$3000 PERCHERON STALLIONS at \$900

My own direct importation, personally selected. No middleman's profits. All blacks or dark greys and all "ton" horses, with best of feet and legs. You save \$1,500 to \$2,000 on every horse you buy from me. Everything absolutely guaranteed. Barn in town. Also English bull pups for sale at one-half price. **T. J. Miller, Kirksville, Mo.**

PRESIDENT ROOSEVELT SAYS:

"There may be some place in the world equal to Puget Sound, but I don't know where it is."

Best year-around climate in the United States. Fertile soil and immensely rich and varied resources.

Send 4c for finely illustrated 64 page free booklet on this wonderful section of the United States.

Chamber of Commerce, Everett, Wash.

AN IDEAL RANCH PROPERTY.

For Sale—A 400-acre ranch located four miles south of Republican City, Nebr. One hundred acres farm land. Forty acres of alfalfa and the remainder divided in three pastures with timber and running water in every pasture. Six room house, barn and granary 30 by 40 feet. Two hundred and fifty acres of the ranch is desirable for farm land. It has two orchards of bearing apple-trees. If parties want the entire ranch of 1,000 acres will sell it. Also half interest in 80 head of Shorthorn cattle. For further information write or call on **A. B. Heath, two miles south of town, Republican City, Neb.**

YOUR HIDE TANNED HORSE or CATTLE HIDES make fine warm robes. We are the oldest house doing this kind of work. Are responsible and know how. Write for prices **The Wortling & Alger Co., Hillsdale, Mich.**



Iams' David de Volle (24318) Bay.

Royal Belgian 5 years old, one of 4 Belgian stallions in the 4-year-old class that won all prizes at the Nebraska State Fair and one of the 151 stallions that must be sold at fifty cents on the dollar by Frank Iams, St. Paul, Neb.

Valley Center, Kans., about his Poland-China sale on December 21, 1905:

The boars that I offer are an exceptionally fine lot all through. Among them, one spring yearling sired by Mischief Maker and out of a sow I paid \$125 for. She is by Perfect I Know, dam by Ideal Sunshine. She is one of the best breeders in my herd as all Perfect I Know sows are. She produced my first prize senior yearling boar at Topeka and Hutchinson this fall, also Annadarko, my first prize Junior yearling sow at Hutchinson. Smuggler (which will be in my sale) and Searchville first and second under a year boars. I have one ten months old boar (sired by the \$5,000 Corrector) and out of Proud Mabel, a \$100 sow, and dam of Nobby, the first prize senior yearling sow at both Topeka and Hutchinson. This boar is a full brother to my champion boar two years ago. He is a great specimen of the breed and ought to go to head a good herd. I have four more splendid September and October yearlings sired by Proud Boy and Correction and out of sows that have won and represent the best blood of the breed that will be priced below their worth. They all are of the heavy boned type with extraordinary finish and smoothness which my herd is noted for. I have selected fifteen spring boars for private sale that are a model lot, sired by my great boar Prince Proud who was first in class and sweepstakes at Hutchinson this fall. He was also a prize-winner at the Illinois State fair and I believe can not be excelled as a breeder in the State. His dam is by L's Perfection, second dam the great Sallie S., making him a line bred Perfection with one out cross. He was first with five of his get under six months at Hutchinson all breeds competing in a class with hogs from Colorado, Iowa, Missouri, Nebraska and Kansas. What more could be said of him as a breeder? Among these spring boars is one that was in the winning pig herd. His dam is the Perfect I Know sow mentioned above. This pig is an ideal one all over and will make a show hog if handled with care. A better head and ear was never put on a hog. With his great finish and smoothness he possesses the requirements of a winner. He has a great back, feet and legs. Anyone wishing information about any of these or others will please write and they will get a courteous reply promptly with accurate descriptions and I guarantee everything as represented. Visitors are always welcomed and met at trains. At any rate write me and see how cheaply you can buy a good pig and how well you will be satisfied with our selection. As to my sale December 21, 1905, will say it will be the blue ribbon sale of the season; will include the winner's sire, dams and full brothers and sisters all as special attractions.

International Live-Stock Exposition.

The last important American live-stock event for the year is the International Live-Stock Exposition, to be

held in the perfected quarters at the Union Stock Yards, Chicago, December 16-23, 1905. The KANSAS FARMER is in receipt of a classified list of all entries for the forthcoming show from General Manager W. E. Skinner.

We present the following summary which will give the intending visitor a comprehensive idea of what the show in the main will consist.

Swine Division.			
Breed.	No.	Ex-Breeding Fat	No.
		hibitors.	Stock.
Berkshires.	5	...	63
Poland-Chinas.	7	...	49
Chester Whites.	2	...	20
Duroc-Jerseys.	7	...	60
Tamworths.	1	...	6
Large Yorkshires.	2	...	11
Hampshires.	2	...	40
Grades and crosses.	8	...	118
Sheep Division.			
Shropshires.	17	165	45
Southdowns.	6	28	40
Oxfords.	4	30	17
Hampshires.	5	36	15
Dorsets.	6	41	17
Cheviots.	4	19	20
Cotswold.	4	42	25
Lincolns.	2	29	18
Leicesters.	6	33	24
Rambouillets.	4	28	...
Medium Wools.	12	47	48
Long Wools.	9	...	62
Cattle Division.			
Shorthorns.	74	278	318
Angus.	35	151	43
Herefords.	24	143	32
Galloways.	13	75	18
Red Polls.	11	99	11
Polled Durhams.	2	36	11
Grades and			
Cross-breeds.	44	...	110
Horse Division.			
Percherons.	15	120	
Clydesdales.	16	104	
Shires.	10	75	
Belgians.	11	93	
Suffolks.	1	1	
Draft in harness.	11	49	
German Coachers.	3	50	
French Coachers.	4	39	
Hackneys.	8	36	
Shetlands.	4	12	
Summary.			
Swine.		501	367
Sheep.		782	427
Cattle (pure-bred).			110
Cattle (grades).			
Horses.		580	

For Pedigree Association Meetings.

The following National Registry and Pedigree Associations will hold annual meetings of stockholders at Chicago during the International Exposition:

- Dec. 18, 8 p. m.—International Live Stock Exposition Association, Pedigree Record Building.
- Dec. 19, 7 p. m.—American Cotswold Registry Association, Pedigree Record Building.
- Dec. 19, 7:30 p. m.—American Federation of Agricultural Students, Pedigree Record Building.
- Dec. 19, 7:30 p. m.—American Ox-

ford Down Record Association, Pedigree Record Building.

Dec. 20, 7:30 p. m.—American Milch Goat Record Association, Pedigree Record Building.

Dec. 20, 3:30—American Shorthorn Breeders' Association, Pedigree Record Building.

Dec. 20, 8 p. m.—American Aberdeen-Angus Breeders' Association, Palmer House.

Dec. 21, 7:30 p. m.—Hampshire-Down Breeders' Association, Live-Stock Record Building.

Dec. 21, 7:30 p. m.—American Yorkshire Club, Pedigree Record Building.

Dec. 21, 7 p. m.—Red Polled Cattle Club of America, Pedigree Record Building.

Dec. 21, 10:30 a. m.—American Shropshire Registry Association, Pedigree Record Building.

Dec. 21, 7:30 p. m.—Polled Durham Breeders' Association, Saratoga Hotel.

Dec. 22, 7:30 p. m.—American Galloway Breeders' Association, Pedigree Record Building.

The McDaniels' Poland-China Sale.

The Ed. McDaniels' sale of Poland-Chinas at Cherryvale on December 2, was well attended by breeders and farmers and the offering was taken at fair prices, especially the females. The boars were nearly all too young for service and sold rather too low. The sows and gilts averaged nearly \$25. The highest price paid for a female was \$80, given for No. 1 in the catalogue by F. M. Chambers, Denison, Texas, who also bought four of the best sows in the sale. Other buyers were P. Benham, J. C. Foster, E. Gurber, H. A. McDaniel, O. F. Norris, E. J. Hallefield, J. A. Rittenhouse, Jas. McDaniel, W. H. Crew, Fred Waggoner, R. D. Clemons, Mrs. M. E. Hills, A. H. McConnell, Joe Miller, A. F. Gibson, C. C. Ouslager, S. L. Brown, Mike Liebert, M. Kennedy and

G. S. Hestersen, all of Cherryvale; Sherman Menard, McCune; W. R. Crowther, Golden City, Mo.; J. A. Wilson, Milo, Mo.; A. S. Blosser, Bolton, Kans.; H. N. Holdeman, Girard, Kans.; L. C. Caldwell, Moran, Kans.; J. A. McDowell, Elk City, Kans.; Emmet McGrew, Centerville, Kans.; O. J. Mitchell, Centerville, Kans.; R. L. Madden, T. M. James, and G. W. Rodgers, of Independence, Kans.

J. R. Young's On and On Sale.

On and On litters have been the attractions in the sales of many of the best breeders this fall, often a litter or part of a litter selling for one-fourth the amount of the entire sale. The opportunity of the year to purchase sows bred to this great sire will be at Richards, Mo., December 20, when 30 Royal Queens will be sold safe in pig to this great sire and 30 of his choicest pigs including the great yearling Ideal Lady, so much admired by visitors at the Missouri State Fair this year, and 3 litter sisters to the first-prize under one year boar at the same show. He topped the sale of Polands held in connection with the Fair. Also 8 of the toppest spring boars that will grace the sale-ring this season and the spring gilts are superfine and should be seen to be appreciated. Write at once for catalogues, mentioning the Kansas Farmer, and if impossible to attend have John D. Snyder, representative for the Kansas Farmer, look after your interests for you.

Special Homeseekers' Excursion to Michigan.

The Chicago Great Western Railway will sell tickets to points in Michigan at greatly reduced rates for the round trip. Tickets on sale October 17, 21, November 7, 21, and December 5. Final return limit 15 days from date of sale. For further information apply to G. W. Lincoln, T. P. A., 7 W. 9th St., Kansas City, Mo.

The Dispersion Sale Of POLAND-CHINAS

Junction City, Kans., Dec. 12, 1905

Includes sows by Chief Perfection 2d, Lamplighter, Grand Chief, Curtis Chief, U. C. Perfection, Tip Top, Hammond's Price, and Woodbury; gilts by Keep On's Image, Peerless Tom and Mo's Black Corrector—Individuals of new-ring quality, from prize winning ancestors. A few extra boars of away up breeding. Write for catalogue mentioning Kansas Farmer.

J. H. Cutter, Junction City, Kans.

The Young Folks

CONDUCTED BY RUTH COWGILL.

Words of Strength.

There are three lessons I would write,
Three words as with a burning pen,
In tracings of eternal light
Upon the hearts of men.

Have hope! Though clouds environ now,
And Gladness hides her face in scorn,
Put thou the shadows from thy brow,
No night but hath its morn.

Have faith! Where'er thy bark is
driven,
The calms disport the tempest's
mirth,
Know this: God rules the hosts of
heaven,
The inhabitants of earth.

Have love! Not love alone for one,
But man as man, thy brother call,
And scatter like the circling sun,
Thy charities on all.

Thus 'grave these lessons on thy soul,
Hope, Faith and Love and thou shalt
find,
Strength when life's surges roll
Light when thou else wert blind.
—Johan Schiller.

Oviedo and Asturias.

ANNA MARIE NELLIS.

I want to talk a little about the two above-named localities, but in order to get them thoroughly identified in our minds, it seems necessary to tell something of their history. You see, the country now called Spain, was an exceedingly Christian country in the year 710, that is, some 1200 years ago. Whether it was as much Christianized as the Methodist church, the Lutheran church, or the Christian Science church are to-day, we will not now stop to consider.

Somewhere along in the years from 700 to 710, Taric the Saracen or Moor discovered the beauty and usefulness of that little strip of water lying between the Atlantic Ocean and the Mediterranean Sea, which we now call the Straits of Gibraltar. Well, he brought a lot of his folks from Northern Africa (who were Mohammedans) across these straits, armed with bows, arrows, knives, forks, spears and such things and they began and did continue to push and drive the Spanish Christians northward. They made their first "grand stand" at Grandada, but continued northerly as the weather permitted.

Now, our party of tourists in 1905, did the same thing, that is, we crossed the Straits and went northward, on the same general route that Taric and his friends pursued, though we traveled faster—we had the Spanish express trains to carry us, while poor Taric had to walk most of the way.

For some reason, which I cannot explain, the Saracens whipped the Christians everywhere; and after killing a whole lot of them, they just set themselves up as owners of the whole country, and kept the most of it for 700 years. Not the entire part of Spain did they conquer; for when they got pretty well up north, near Oviedo and Asturias, they met a resistance which completely puzzled the Africans. A gentleman by the name of Pelayo it seems was a pretty good fighter; and he and his army kept back the Moors for several years, until in 718 he gained a considerable victory over them. He then established the Kingdom of Asturias, and he was thus the first King of present Spain, though he only held a very small portion of the vast country. But by reason of his prowess, and successes, he established the name Asturias for the past 1200 years, as the heir of the Kingdom of Spain, is always called "The Prince of Asturias." The present Prince of Asturias is the son of "Don Carlos," who married the only living sister of King Alfonso XIII. But if King Alfonso marries and has a son, that son would at once become the Prince of Asturias, and Don Carlos would be looking out for another job.

Now Pelayo's grand-son, by name Frolla, who was King of Asturias, as Frolla I, concluded that he liked the province of Oviedo adjoining Asturias, better than his present home city, so

he moved his family over to Oviedo in 760, and was then known as the King of Oviedo, and his son was the first one to bear the title of Prince of Asturias.

Well, the Kings of Oviedo got along pretty well till about the year 900—or say 910, when they had conquered a lot more of Spain from the Moors, when they moved over to Leon and the Kingdom was called the Kingdom of Leon. Years afterward Castile was conquered and then the Kingdom was Castile and Leon; then Ferdinand of Aragon in 1460 married Isabella the only child of the then King of Castile and Leon, and thus united the two Kingdoms as Castile and Aragon. Later on Ferdinand and Isabella whipped Boabdil, down at Granada, as I stated in a former letter, and thus became the monarchs of all Spain.

If you think all the preceding is too much about the history of Spain, I can't help it, for I wanted to locate Asturias and Oviedo which are way up in the northwestern part of Spain and border on the Bay of Biscay.

On July 10, we had to get out of bed at 3 o'clock in the morning, at Leon, in order to get the 20-mile-an-hour express train for Oviedo. We jogged down the lonesome, deserted streets to the station. The old Leon Cathedral spires—bathed in the early morning light—we saw from the station, and we thought the sight very beautiful indeed. We all solemnly resolved to soon return to Leon and spend a month or so just looking at the cathedral spires; but I am very doubtful that any one of us will do so.

We now began the journey I had looked forward to with much delight—the journey through the "Switzerland of Southwestern Europe." Our road lay directly north to the city of Oviedo, which is just fifteen miles from the Bay of Biscay, and in the heart of the Cantabrian Mountains. The railway, itself, is a splendid and admirably engineered road, and it runs amidst the most picturesque mountain scenery. Crystal streams, "abounding with trout" (so our book said), green valleys, meadows of rich blue-green chestnut groves and corn fields, met and gladdened our eyes as we passed along.

The road winds up and down, and coils, serpent-like, around cloud-crowned hills. Many tunnels are scattered at proper intervals along the way, and just as we were enjoying most entrancing views, we would be plunged into jetty darkness. I heard one of the guards say that there were more than 60 tunnels, on the roadway, in less than 90 miles of distance.

The mountain scenery is quite Alpine in character, but the mountains themselves do not attain such heights, as Switzerland can show; but many snow-capped ones were to be seen in the middle of summer time.

We arrived in Oviedo at 12 o'clock, and we immediately went to the "Hotel de Paris" for our dinner; as we were to meet there some English friends, who were to take us up to their "castle" for a visit. After dinner we inspected the city whose main interest centres in the beautiful cathedral. It may be as painful to read about so many cathedrals, as it is to me to write of so many; but in a Christian country like Spain, the cathedrals and churches are the greatest and most beautiful sights to be seen, excepting the bull fights, of course.

If any part of Spain can be the slightest bit more religious than any other part, I presume Oviedo and the province of Leon, generally, is entitled to the blue ribbon. It formerly was nothing but a group of monasteries, convents and dwellings of hermits; and all these have left their most churchly stamp upon the city and country.

The most interesting portion of the cathedral, for me, was the now famous "Camara Santa" (holy room.) This room is the object of pilgrimages from all portions of Spain; and it is very greatly venerated. It is only 18 feet by 16 feet, and is filled with curiosities—or, I should say, relics. The "Santa Sanctorum" is a chapel off from the Camara Santa, and is separated from it by a railing. It is, practically, only

an oaken chest, 6 feet long by 3½ feet wide, and at it kneel those who come to pray to the relics, or to the saints over the relics. These latter are said to have been collected by the "Apostles" in Jerusalem, at the time that city was conquered by Vespasian; they were first carried to Africa, thence removed to Toledo (not Toledo, Ohio), and later on brought to Oviedo—in 895 A. D. So you see these relics traveled over 800 years before they became finally settled here in this beautiful city. But they have "put in" their time to good advantage, and have wrought exceedingly many miracles and such things. It is not for me to deny the stories told about them, for I do not know anything about them. They consist of an assortment of thorns from "the crown," wood and nails from the "true cross," several of the coins received by Judas, the "Sudoria" or shroud of our Lord, a bit of Lazarus' tomb, etc. The Pope Eugenias, a long while ago, granted 1004 years and 40 days indulgence to the devotees who go there to kneel and pray; so that they will have 1004 years and 40 days less time to suffer in Purgatory, before they can go into Heaven thoroughly purified.

In the Sancta Sanctorum is the small "holy chest" containing the relics; but if you go there, don't look into the chest, we didn't. In 1550 the Bishop after fasting and prayer for some days, ventured to open it and look in, but what he saw there made his hair stand straight up, so that his mitre fell off with a "sickening thud."

In the city of Oviedo is still shown the house where Pelayo, the first King—the hero of Asturias—first lived; we looked it over, but didn't like it, so did not buy.

Some years ago the head of the chemical department in one of our best known schools of technology received a letter from a large firm engaged in a chemical industry in a Western city. The letter stated (it is a very common form of letter to be received at educational institutions) that the firm would be glad to secure for its chemical laboratory "the best man in the class of this year." The reply of the professor was, "The best man is a woman." "Very well," answered the firm, "we will try your woman." President Pritchett has much encouragement to offer the ambitious girls and their seniors in an article on "Women in the Technological Professions," which he has written for The Youths Companion.

RIFLES FOR GIRLS AS WELL AS BOYS, SAYS PRES. ROOSEVELT.

In a recent letter to General Wingate, accepting the vice-presidency of the Public Schools Athletic League, President Roosevelt wrote as follows: "I am glad that you have installed in each of four high schools a sub-target rifle practice and are teaching the boys to shoot with the Krag; and I am pleased with the great success that you have met in this effort."

"I am also particularly pleased that you are about to organize a woman's auxiliary branch, for the girls need exercise quite as much as do the boys."

"The demands such a movement make upon the time and the money of those engaged therein are very heavy. You are doing one of the greatest and most patriotic services that can be done, and you are entitled to the heartiest backing in every way from all who appreciate the vital need of having the rising generation of Americans sound in body, mind and soul."

Sincerely yours,

"THEODORE ROOSEVELT."

These are the very two points which have been presented of late with such force by the J. Stevens Arms & Tool Company, 125 High street, Chicopee Falls, Mass.

The healthy outdoor exercise, the quickening of eye, the training of muscle and the steadying of nerves is just

U.M.C.

SHOT SHELLS

Why

go on a wild goose chase for Shot Shells?
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The book, which contains 140 pages, covers everything of interest to a lover of the gun—ammunition, sights, the proper care of firearms, etc., etc. We understand the book is sent free to anyone sending a couple of two-cent stamps, to cover postage.

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For the Little Ones

Wonderland.

Louise Castle Walbridge.

A fairy region is Wonderland
Where little folks love to go,
And with brightening eyes and dancing feet

They see its mysteries grow;
As they wander and wander, on and on,
Its marvels and joys unfold,
There's always and ever something new
And its wonders never grow old.

There Little Bopeep and Mary's lamb
Are loitering day by day;
The Babes in the Wood and Golden Locks

With Riding Hood are at play;
Cinderella and Friday dwell in peace
With Robinson's family near;
And wise are the creatures gathered there

As converse both quaint and queer.

Fairies and elves are everywhere
Two children to entertain,
And Alice herself has waited long
To lead where absurdities reign.
There are witches and wizards, goblins,
ghosts,

That startle 'til breath comes quick;
There are heroes and knaves, and best
of all,
The reindeers and jolly St. Nick.

Kings with their queens and courtiers,
too.

Come at the little ones' call;
And palaces grand and gardens fair
Are open to one and all;
O, life is too short to explore this land,
And view all its treasures vast;
And unheeding are all who enter in
As the days and the years glide past.

The children are come from far and near,
Glad wanderings there to begin;
For oft have they heard delightful tales

Of the charming scenes within.
And older folks, too, are children still
As they linger enchanted there;
And all upon whom it casts its spell
Forget all trouble and care.

But this beautiful land is guarded
By a wall both strong and high;

And search as they will but one way
in
Can the children find to try.
But lassies and lads who persevere
May win for themselves the key.
For 'tis Storyland, dear, and the gate
swings wide
To the magic of A. B. C.

Preparing to Travel.

BY GERTRUDE ARNEL, FALL RIVER, KAN.

"Hello, what's the matter now?" It was cousin Fred's voice, he had come over to help his uncle's family pack their household goods, and take them to the depot.

"We was packin' for Oklahomie, and Essie upsetted the box, and spilled all the things," cried angry little Clair.

"I didn't mean to," faltered Essie. "I just pushed it over to get it off dolly's dress, and it fell."

"Well, well, no use crying over spilled milk—or toys, either," Cousin Fred looked amused at the upset baggage. "Queen Bess" leaned against the box in a very ungraceful position, the woolly sheep was caught in her hair; and the silver rat, with a pincushion back, perched saucily on her embroidered dress; while spools, rings, and various trinkets were scattered about in confusion.

"Better set up the upsetted and hurry along with your box," he advised, as he went to help papa.

It took some time to pick up the things and get them in the box again. At last they were all in except Peggy, the rag doll. Her bulky body refused to be cramped up in so little space. Just then mamma called that it was time to get ready to go.

A few minutes later they came down the walk, dressed in immaculate white linen suits, their curls nicely brushed and tied with ribbons. Clair was carrying Peggy wrapped in a red bandana, and Kitty Blue rested snugly in Essie's arms.

"Why, girls, what does this mean?" mamma said, and there was a suggestion of a smile about her lips.

"Oh, mamma, there wasn't room in the box, and please may'nt we carry them with us?"

Essie begged so much, that at last mamma consented to take Kitty Blue to town and try to find her a home.

"And can't I take Peggy too," Clair pleaded.

"Yes do," laughed cousin Fred, "I'm sure Peggy would make friends with everyone."

But mamma was firm. They put Kitty Blue into the buggy, and took Peggy back to the house.

"Too bad to throw her back like an ordinary rag, isn't it?" called cousin Fred. "I say, girls, why not give her to one of the neighbors for a scare—er—I mean a sort of guardian angel in a cabbage patch. If she can't be ornamental, she might at least be useful, you know."

Clair deigned not to notice his remark, and walked away, her curly head held high. As she met papa at the door, however, an idea occurred to her, and she borrowed pencil and paper, and wrote in an uneven, childish hand: "To the next little girl

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that lives here. Peggy, with love from Essie and Clair.

"P. S.—She got rained on and it faded the color in her face. We can't take her with us. Be good to her, please."

She pinned the note to Peggy, and kissed her good-bye.

They were soon traveling over the prairie toward town. Presently Essie exclaimed, "See! Mamma, there comes a covered wagon." It stopped as they drew near, and the man driving inquired about the road. He proved to be the person that was moving onto the farm they had just vacated. Mamma told him about Kitty Blue, and asked if he would like to take her home.

"Well, I hain't much use for cats myself, but maybe baby would like it," he replied, as he lifted up a laughing, rolly-polly baby, of about twelve months. A gurgle of delight, when they put Kitty into her lap, announced that baby was satisfied.

"Oh, I'm so glad she wanted Kitty Blue," Clair said, as they drove on. "I believe she'll like Peggy, too." And then she added, "It's lots of trouble to travel, ain't it, mamma?"

THE INTERNATIONAL SUNDAY-SCHOOL LESSON.

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Fourth Quarter. Lesson XI. Neb. viii. 8-18, December 10, 1905.

Reading and Obeying the Law.

Upon the stone pavement, in the great plaza in Jerusalem, a great throng was seated in the gray of the morning. It has been variously estimated at between twenty and fifty thousand. Parents have brought their children in hopes that the scene will be caught on the sensitive plate of memory. Over there was the gate through which the Gibeonites fetched water for use in the temple. Behind them was the temple itself—monument of the pious zeal of the returned exiles, inclosing all, the walls, completed only seven days before; in the midst, a rude wooden platform, such as we see at our modern hustings.

In obedience to the note of the silver trumpet, this uncommon multitude had gathered at the Feast of the New Moon, at the opening of the seventh month, crowded with its sacred festivals. And the people, of their own accord, having a premonition that the voice of prophecy would cease, and

that they stood on the edge of the silent centuries, had requested that they might hear the written Word.

Ezra, the second Moses, the second founder of the Jewish State, ascended the wooden pulpit, accompanied by thirteen of the most influential Levites. Just as the sun rose he held aloft the yellow scroll. As before the sun the darkness of nature rolled back, so the Lamp of the Word was about to remove the darkness of their minds—a darkness intensified by the captivity and subsequent neglect.

At sight of the book of the law, the people rose in token of their reverence. No doubt, as Ezra held up the hand-written volume he uttered an exclamation of praise to God, that out of the wreck of the past this treasure had been preserved. He may have used the very language David did on the occasion of the people's generosity toward the temple building fund, "Blessed be Thou, Lord God of Israel, our Father, for ever and ever!" A hundred thousand hands went up toward heaven and fifty thousand tongues raised the response, "Amen! Amen!"

Now the vast audience composed itself to listen to the reading of the law.

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The Home Circle

CONDUCTED BY RUTH COWGILL.

In the Country.

We sit in our rustic cottage, Molly, my wife, and I.
The world of ton and fashion in glitter and gloss go by;
We hear their tandem clatter, and the snap of their coachmen's whips,
But, Lord, not a sigh of envy defiles our rural lips.

We think, as each blazoned carriage whirls the dust in our eyes,
This show and rattle of fashion is all to drown their sighs!
But the grief of restless spirit will ache through the rouged face,
While Love is of gentle breeding, and known by his quiet grace.

Though you take the wings of the morning, and search with an eagle eye,
From the slumbering depth of the ocean up to the changing sky,
And send out your liveried lackey, like hounds of the keenest scent,
You cannot find Love's dwelling, nor the Valley of Content!

But here in our rustic cottage, where children laugh and shout,
Far from the city's splendor, Love has found us out;
And though we fled to the desert, he would swiftly track us there,
For the voice of a cheerful spirit doth woo him everywhere.

Our spirits are but as gardens, all gloom or light as we please,
Foul weeds or flowers in blossom! while the over-shadowing trees
Will be black with croaking ravens or bright with singing birds,
Those are fed with our curses, these with our pleasant words.

Here in our rustic cottage, where the brooks go clattering by,
We sit in the summer gloaming, Molly, my wife, and I;
Watch the great sun setting in beds of molten clouds,
And the stars, like the eyes of maidens, troop out in blazing crowds.

Then we feel that Love is roaming around in the wanton air,
And he seals our lips with kisses, till the night becomes a prayer,
A prayer of great thanksgiving, rising on silent wings,
But the voice of our wedded spirit is the sweetest voice that sings.
—Michael Scanlan, in Ex.

Recollections of Early Days in Kansas.

MRS. F. P. BAKER, BEFORE THE NAUTILUS CLUB, TOPEKA.

(Continued from last week.)

Letter From Mrs. P. C. Day.

"It will be seen that Mrs. Day's letter was written from Brooklyn. The letter written by Mrs. Baker to her was sent to her residence in Johnstown, N. Y., which letter was published in half a dozen Montgomery County, N. Y., papers, and this is what Mrs. Day means when speaking of looking for papers.

"Brooklyn, Feb. 19.

"My Dear Mrs. Baker: Your letter was received some time since, but owing to sickness in our family and my sudden departure to this city, it has remained unanswered until this time.

"There were two boxes sent to Mr. Pomeroy, with instructions to send them to Mrs. Baker of Centralia unless she had been previously supplied. If so, he must use his own discretion. There was also a little more than one hundred dollars raised to send to the general fund, but it was thought best by some of the ladies that a small portion of the money be appropriated in purchasing flannel, lisey, and factory stockings, and some small articles, as they could not be obtained there with the same amount of money. Consequently there were over thirty dollars expended to be put in the boxes. The rest was sent to Mr. Pomeroy. We tried to get a paper to send to you, but there was not a number to be found at the office, neither in any family where we would presume to call.

"The ladies all regret that as the boxes were gotten up expressly for your township that they were not sent to you, but perhaps it is all for the best.

"I have watched the papers anxiously to see if the Government would not

make a becoming appropriation for the relief of the sufferers of Kansas. I was gladdened by seeing \$50,000 had been appropriated a few days since. I could wish it had been twice as much.

"I received a circular, also a pamphlet from Centralia, for which I was greatly obliged. PHIL C. DAY.

"The letters written by other women of Kansas called forth similar replies, and added largely to the amounts received. There was received through the letters Mrs. Baker wrote at least \$5,000. Churches and other organizations took occasion to write to their friends and have goods sent to be used in payment for labor in building churches. As an example of this, the Episcopal church, at the corner of Jackson and Eighth streets, was to a considerable extent paid for by aid sent from the East to N. O. Preston, who was then rector of the church. As stated above, the sacks of flour, beans, corn, wheat, and other supplies, were directed to W. F. Arny, and it was not an uncommon thing throughout Kansas to see petticoats so marked.

"I believe it was never published as to the exact amount of aid received through the organization of the committee, but it was a great many thousands of dollars."

Mr. Baker having been elected a member of the House of Representatives, his district including many of the counties of Northeastern Kansas, we came to Topeka in January, 1862, to attend the session of the Legislature; and our residence here has practically dated from that winter. During the session Mr. Baker purchased an interest in the Kansas State Record, a weekly newspaper, and we removed to Topeka, April 3, 1863. The journey was made with wagons and horses and mules, some of the members of the family riding their horses.

We were again coming to a strange community, but we had had a taste of Kansas friendship and having made some acquaintances during the session of the Legislature, felt that we were not really among strangers. The people were hospitable and kind and their attention was so cordial that we soon felt quite at home. Kansans are ever cordial and kind, and among my recollections of bygone days none are pleasanter and no memories can be sweeter than those connected with our earlier years in Topeka—unless they be those which have followed during our long residence here. It was a grateful change from the drouth and its trials, to come to a community already organized and prepared for the enjoyment which mutuality of interests confers. Each one had something to give out which was acceptable to the other. There was much musical talent, and meetings were arranged and social functions organized, so that the best that was in any one was brought out for the pleasure and edification of all. I remember that among the earlier meetings were those at the residence of Mrs. Ward, now at the home of her daughter, Mrs. J. M. Meade. In those days luxurious furniture was not common nor attainable, but the welcome of the hostess was none the less cordial, and the ingenuity of the family and the guests resulted in comfortable if crude seating arrangements. Chairs were not numerous, and to provide for their absence, new boards, which had come from Williams' mill, near the river, on Kansas avenue, to be used in a new building, were placed with either end resting on a primitive chair, or if need be, a sawbuck. The result was more fun and laughter and consequent happiness than if each lady were seated in a wonderful construction of the cabinetmaker's art. Every lady wore her Sunday-best dress, of course. Only a few days ago I was discussing these old days with one of the ladies present then, and she recalled that the day after the musicale was spent in remov-

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ing the slivers which the unplanned boards had woven into the fabric of her costume. These inconveniences did not lessen the desire to attend the meetings nor detract from their pleasure. Many of the songs were choice, and the program was varied, among those which were most popular being religious and patriotic selections as well as the homely and sweet, such as "John Brown's Body," "My Old Kentucky Home," and the dear and pathetic "Suawnee River." The hours sped quickly and there was always excellent refreshments, including coffee, cakes and salads, and other delicious preparations from the kitchen. The arrival of the hour of midnight was the signal for the end of the festivities. Those were indeed joyous days, and the friends we made then are still as dear to us as though they were our own kindred. Our social entertainments were increased by the "Married People's Dancing Club," which organization has long ceased to exist, though its purpose has been faithfully maintained by our descendants, whom we in the old days left at home in charge of the nurses, and they, in their turn, now have a younger generation to take their place.

WHEN MR. BAKER'S HAIR TURNED GREY.

In this connection it may not be amiss to give Mr. Baker's experience in a snow-storm on January 18, 1861:

As was stated in the article in the Journal, Mr. Baker was one of the executive committee that had in charge the relief fund for the famine of 1860. His duty called him to action once each month. He had been attending a meeting of the executive committee for two or three days. On the morning above-stated three or four loaded teams of relief goods started out, and Mr. Baker and a neighbor of Nemaha County, by the name of Hocker intended to go with them. As the teams were not quite ready to start, Mr. Baker and Mr. Hocker started on foot, expecting the teams to overtake them. Soon after they started it commenced to snow a soft, damp snow. They went on but the teams never overtook them. About noon the snow still falling, they reached a point, I think, in Pottawatomie County, where they left the main road leading out to Seneca, and took an old Indian trail which led to Centralia. By this time the snow had entirely obliterated the old trail, but as

they knew the course to Centralia, they believed that by being guided by the wind they could follow the right course. The followed that direction as they supposed, but afterwards ascertained that about dark the wind changed. Not knowing this, and following the course of the wind, it took them to Tennessee Creek. When the wind changed it became very cold and the snow had become about eighteen inches deep. They wandered around Tennessee Creek and finally believed themselves to be lost. Remembering to have read or heard of persons being out in a snow-storm, they dug into a drift, thinking to cover themselves in snow, and thus to keep from freezing until daylight. The snow being damp they found that their clothes soon became wet and that they could not stay there longer. They went on wandering and wallowing through snow-drifts until about 11 o'clock, when they came to a deserted log house. Mr. Hocker was quite an old man, and said, "Baker, I can't go any farther, you are younger and perhaps you'll get through. If you do, and can send anybody out to me and find me alive, well and good." Mr. Baker then went on, and after wandering around for an hour came to a house and through the window saw a fire on the hearth. After hallowing two or three times a man's voice answered, "Is that you Baker?" It seems, he knew his voice and got up and Mr. Baker went into the house. When he explained to him where he had left Mr. Hocker he said, "Why it is only a quarter of a mile from here;" so he had been wading through the snow for an hour. They had nothing to eat since morning as their lunch-baskets were with the teams. While the gentleman was going to bring in Mr. Hocker, his wife got up to get them something to eat; she had nothing whatever in the house, except some cornmeal and sorghum molasses. She had the supper ready by the time Mr. Hocker got in. Mr. Baker thinks he never relished a meal as he did that. They stayed there till morning, and then went a short distance, to where Mr. Hocker lived, where they got breakfast. Mr. Baker came on alone and got home sometime in the afternoon. That was the time that Mr. Baker's hair turned white.

Mr. Baker desires me to correct one thing which was in the article in the

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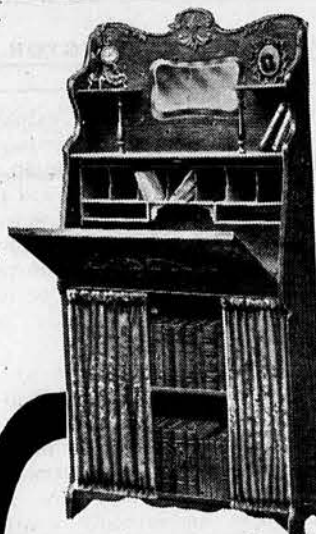
Journal. There were two other members of the executive committee; one was Rev. Lewis Bodwell of Topeka, and the other an Episcopal minister, of Lawrence. Mr. Baker does not remember his name, but these gentlemen seldom met with the committee.

TRAINING COLTS.

Perhaps you have trained colts with great success for 20 years. Do you think a Chicago bookkeeper can do it as well as you can? Probably not. The man who is most successful in any kind of work is usually the man who makes a specialty of that particular thing. In the matter of shaving soap, the J. B. Williams Co., Glastonbury, Conn., have made a specialty for nearly three-quarters of a century, and naturally understand making shaving soap better than anyone else in the world. Common laundry or toilet soaps are not fit for shaving purposes. They make the face sore and irritated. If you want to try the "only soap fit for the face," write the J. B. Williams Co., Glastonbury, Conn., for a free sample. Their offer appears in another column.

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Our Club Roll.

Mutual Improvement Club, Carbondale, Osage County (1896).
Give and Get Good Club, Berryton, Shawnee County (1902).
Women's Literary Club, Osborne, Osborne County (1902).
Women's Club, Logan, Phillips County (1902).
Domestic Science Club, Osage, Osage County (1888).
Ladies' Crescent Club, Tully, Rawlins County (1902).
Ladies' Social Society No. 1, Minneapolis, Ottawa County (1888).
Chaltee Club, Highland Park, Shawnee County (1902).
Cultus Club, Phillipsburg, Phillips County (1902).
Literature Club, Ford, Ford County (1903).
Sabbath Club, Mission Center, Shawnee County, Route 2, (1899).
Star Valley Women's Club, Iola, Allen County (1902).
West Side Forestry Club, Topeka, Shawnee County, Route 8, (1903).
Fortnight Club, Grant Township, Reno County, (1903).
Progressive Society, Rosalia, Butler County (1903).
Pleasant Hour Club, Wakarusa Township, Douglas County (1899).
The Lady Farmers' Institute, Marysville, Marshall County (1902).
Women's Country Club, Anthony, Harper County (1902).
Taka Embroidery Club, Madison, Greenwood County (1902).
Mutual Improvement Club, Vermillion, Marshall County (1903).
Friends Reading Club, Cawker City, Mitchell County (1903).
Cosmos Club, Russel, Kans.

[All communications for the Club Department should be directed to Miss Ruth Cowgill, Editor Club Department.]

ART PROGRAM.

Carot.

Roll Call—Something about Carot.
I. The Barbizon School of Painting.
II. Lessons of Carot's life.
III. The progress of art in times of war.

I. While it is not possible to classify artists accurately, there are groups of painters and poets who are similar in their choice of subjects and have similar characteristics. These groups are called schools. Carot (pronounced Karo) belonged to the Barbizon school which derived its name from the town in France by the name of Barbizon. It is on the edge of the picturesque old forest of Fontainebleau. The painters of this school made nature their studio and some of them made their homes in this village in order to catch nature in all its phases.

II. The study of Carot's life is like studying one of his landscapes—serene, quiet, restful—so unlike the unattractive life of Turner. He was born in that tumultuous time in France—the latter part of the 18th century—almost at the time of the fall of the Bastille. Yet he was one of the most placid of men—childlike and happy in his nature. There is nothing more helpful to one than reading of the life of such men as Carot, and the lessons of his life of 51 years are many and reveal to one a character worthy of imitation.

III. Ruskin in his crown of "Wild Olives" on war, says: "You may imagine that your work is wholly foreign to and separate from mine. So far from that, all the pure and noble arts of peace are founded on war; no great art ever yet rose on earth, but among a nation of soldiers. There is no art among a shepherd people if it remains at peace. There is no art among an agricultural people if it remains at peace. Commerce is barely consistent with fine art, but can not produce it. Manufacture not only is unable to produce it, but invariably destroys whatever seeds of it exist? There is no great art possible to a nation but that which is based on battle."

A story is told that during the Siege of Paris a company of wild marauders forced their way into a room of the Tuilleries where were hung a number of Carot's pictures. An occupant of the room, not knowing what else to do, rushed before the infuriated men and exclaimed, pointing to Carot's pictures, "Respect for art. These are Carot's! The men looked at the pictures a few minutes and departed.

Rider Haggard will contribute to the next volume of The Youth's Companion a vivid picture of old Egypt, with some account of the wonderful work of restoration which is being done among the ancient temples.

Meeting of the American Federation of Agricultural Students.

The American Federation of Agricultural Students will hold its annual meeting during the International at Chicago, in the Record building, on Tuesday, December 19, 1905. The business session will be held at 1:00 and



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the general session at 6:15 p. m. It is the purpose of the Federation to promote the interests of agriculture and to unite in work and fellowship the agricultural students of America.

Let every agricultural student and graduate be present at the coming meeting and help to carry out the lofty purpose of the federation. A chief feature of the general session will be a banquet.

Is Dayhoff Right?

EDITOR KANSAS FARMER:—In last week's paper was an article by State Superintendent Dayhoff of which this is the substance, viz.: that school-teachers are entitled to pay for a legal holiday if they do not teach on that day; that this is an established custom in the commercial world; that Decoration Day, Washington's Birthday, and Labor Day are State holidays; and that the Fourth of July, Christmas and Thanksgiving are common-law holidays; that a member of a school board who will withhold pay can be ousted for malfeasance in office and is too small for such an office.

As Superintendent Dayhoff is no lawyer, it may not be treason to question the correctness of these statements. As a matter of actual law and fact, is not every one of them either wholly or partially wrong? If it is an established custom for people who employ labor by the month to pay for legal holidays on which no labor is performed, it has entirely escaped my notice. If it is done anywhere except in State institutions, I would like to know where.

Regarding the Fourth of July, Christmas and Thanksgiving as common-law holidays; if I understand what is meant by the "common law" it is a

heritage of England, and as for England's celebrating the Fourth of July or Independence of the United States!

Superintendent Dayhoff quotes no law in fact. A lawful teacher's contract calls for a school month of "twenty days" very plainly before a teacher is entitled to a month's pay. How is this? Of course a school board as well as any other employer of labor may allow pay and a holiday both of which the employed may accept as they accept any other gift intended as a token of appreciation; but as to demanding it, I think not.

The motto of the commercial world as I understand it, is "No work no pay." Superintendent Dayhoff to the contrary notwithstanding. With regard to the size of the man on the school board who will refuse to pay a teacher for not teaching, opinions might even differ on this. Teachers are hired and paid to teach, not to rest and celebrate holidays on the pay of the district. If teacher's wages are not high enough, pay them more for teaching—not for resting or celebrating. Can not the KANSAS FARMER get the opinion of the Attorney General or some other lawyer on this question? If I am wrong I would like to know it; and if Superintendent Dayhoff is wrong he will no doubt be delighted to find it out.

Franklin Co.

HENRY REH.

Editorial remarks on this subject will be found on the first page of this paper.

"Finnegan—'Tis near kilt I was be fallin' down an open coal hole.

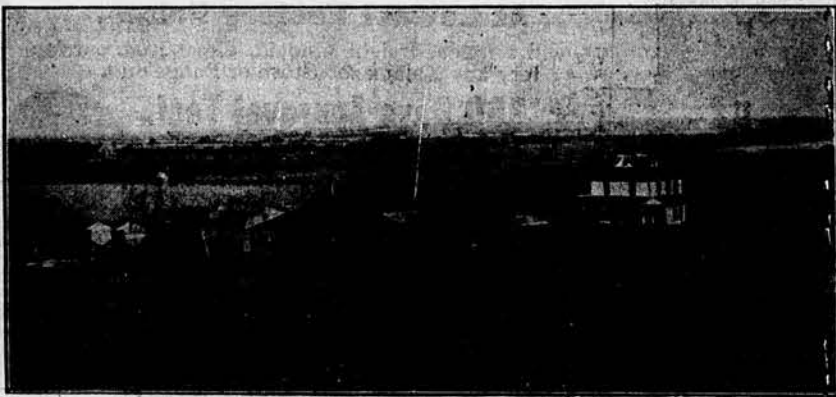
"Well, well, 'tis too bad they can't invint a coal hole thot'll stay shut whin it's open."—Philadelphia Ledger.

Miscellany

The German Coach Horse.

The German coach horse is the finest coach horse in the world and is the only one that approaches the ideal, all-purpose type. His good size, fine action, beautiful color, and considerable weight make of him the perfect horse for the carriage, the wagon, or the plow. He is one of the oldest pure-bred horses on earth. As far back as 1533 the town of Aurich in Friesland held frequent fairs to which the farmers of Westphalia, Friesland and Belgium came to buy stallions of this breed. In the sixteenth century these horses flourished in high degree and the gift of one of them was considered a princely present. King James of England received four of these stallions as a gift from the Count of East Friesland in 1608, and was thus enabled to found a more rational system of horse-breeding and a very much better breed of horses than had previously been known in that country.

Perhaps the strongest claim on the affections of lovers of good horses that is presented by the German Coach stallion is his wonderful prepotency by which he reproduces himself upon any class of mares. He has the style, the action and the size to fill the eye of the horse-lover. He has a deep and well proportioned body, strong and clear bone below the knee and his feet are open, sound and tough. He has fine knee action and carries his head well. He has a long and well-cut-up



The Heath Ranch,

Now being advertised for sale by A. B. Heath, Republican City, Neb.

throttle, fine, well-set ears, broad forehead, large and intelligent eyes, and carries both head and tail high. He is remarkable for his fine disposition. In size he ranges from 16 to 16½ hands and weighs from 1,350 to 1,450 pounds. In Germany, whence he is imported to this country, he is bred under government control and his sire is either the property of the government or of an individual who holds a government certificate. He is the ideal, all-purpose horse and the best examples of the breed may now be seen and studied in the stables of J. Crouch & Son of Lafayette, Indiana, who have large department headquarters at both the Kansas City and Sedalia, Mo., stock yards. This great firm of importers and breeders whose home stables were pictured on the first page of the KANSAS FARMER of November 30, make a business of importing and breeding Percherons, Belgians, French Coach, trotting and pacing stallions, as well, but perhaps their greatest strength lies in their German Coaches. They keep about 200 stallions on hand at all times, but their pride and their specialty is the German Coach because of the qualities of the animals themselves; because of the enormous demand that now exists for them, and because of the very reasonable prices they ask for them.

These horses can be used on all classes of mares both small and large and the colts have the size, weight and action that enables them to "snake" a plow along at telling speed or to go to town and back in business time. The man who buys a German Coach stallion has surely got a money-making proposition. Write J. Crouch & Son, Sedalia, Mo., for what you

want. They have it and their prices and guarantees are right.

Wages and Holidays.

EDITOR KANSAS FARMER:—In your issue of November 23 is a communication from our State Superintendent Public Instruction, Hon. I. L. Dayhoff, in regard to "Teachers and Public Holidays." He says that teachers are entitled to their wages for holidays on which they do not teach. On page 69, Sec. 148, of the Common School Laws of Kansas, is described a school month which is as follows: "A school month shall consist of four weeks of five days each, of six hours per day."

I would like to ask him by what law a school board has the right to draw and pay an order for teacher's wages, contracted for a school month, when said teacher has only taught nineteen days?

He gives the legal holidays as fixed by the Kansas Statutes and then adds: "A teacher is entitled to rest on these days on full pay." I agree with him that they should be allowed a holiday when the community is taking that privilege, but why should they be allowed full pay? When a teacher contracts to teach a term of six months at \$60 per month and the law plainly states what that month shall consist of, I do not feel that I have any more right to draw an order for \$60 on the district treasurer, when said teacher has only taught nineteen days for a school month, than I would to draw an order for \$7 for a ton of coal when the contract price was only \$6.50. I may be wrong, but I cannot agree with our State Superintendent Public In-

struction, that after taking a holiday we should pay them for their rest and recreation.

We hire teachers for the purpose of giving instruction to our pupils and not for the privilege of paying them for taking a holiday.

I believe teachers' wages should be such as would justify full measure of time contracted for and not lead teachers to expect a few days off and full pay.

FRANK BAILEY.

Ford County.

Feeding Questions.

I am feeding a bunch of thirty steers, and being a new hand at the business would like your advice and experience in feeding steers. I have been feeding them about thirty days and they now eat about 25 to 28 pounds of corn and cob-meal and bran mixed, say 7 pounds bran to 18 or 20 of corn and cob-meal. They like the ration and appear to be doing very well.

Have been told that bran is not good for fattening steers; I would like your advice in regard to it. I am thinking of adding cottonseed-meal to the ration. Would it hurt the hogs that are following the cattle?

CARL G. THUROW.

Stafford County.

You fail to state what roughage you are feeding your cattle and I cannot answer as definitely as I could if you had given the full ration. You also fail to give the price on any feed you are purchasing.

If you are feeding alfalfa hay with corn and cob-meal, I would not consider the bran necessary from the fact that corn and cob-meal is sufficiently light, and alfalfa hay supplies the required protein in sufficient quantity. If

THE UNITED STATES GOVERNMENT

is expending over seven million dollars in building reservoirs and canals to irrigate 770,000 acres of magnificent farming lands around Nampa, IDAHO, the railroad center of the State which is ample proof of the great fertility of our farm lands. ONE MILLION BENT-SUGAR FACTORY is securing contracts for raising sugar-beets prior to its erection. OUR CROPS—five to eight tons alfalfa per acre per year—potatoes three to five hundred bushels—two crops timothy and clover—wheat 50 to 60 bushels, oats 30 to 40 bushels, barley 50 to 60 bushels per acre. All fruits raised to great perfection. Write or call on any of the following citizens of Nampa, IDAHO: R. W. Purdum, Mayor, Mine Owner; C. E. Dewey, Railways, Mines, Hotel Nampa, Development Co.; Walling & Walling, Real Estate; Stoddard Bros., Hardware; Lamson & Estes, Real Estate; Tuttle Mercantile Co.; Langdon Mercantile Co.; Robbins Lumber Co.; Central Lumber Co.; Bank of Nampa; Citizens' State Bank; Grand Hotel; Central Implement Co.; Nampa Hardware & Furniture Co.; W. L. Brandt, Real Estate; Mrs. R. E. Green, Lands; King & Willard, Townsites; W. F. Prescott, Lands; Dewey Livery Stables.

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are not found in the SNAKE RIVER VALLEY, but here is found the most beautiful tract of agricultural land in the United States, and you do your raising, and have no failures of crops, that's irrigation. No Cyclones or Blizzards. This country needs live, wide-awake men, who wish a new home in the rapidly developing west, and offers cheap land, good church and school facilities, and a chance to make money to those who are willing to work. St. Anthony, the County seat of Fremont County, Idaho, is a bright and growing town in the very heart of a rich and growing richer country, and if you wish reliable information in regard to prices, soil, climate and our prospects, write any of the following firms: First National Bank; C. C. Moore Real Estate Co.; Wm. D. Yager Livery Co.; Murphy & Bartlett, Cafe; Commercial National Bank; C. H. Moon, Farmer; Chas. H. Heritage, Riverside Hotel; Miller Bros., Grain Elevator; Skalet & Shell, General Merchandise; Chas. S. Watson, Druggist; Gray & Ross, Townsites; W. W. Youmans, Harness Store.

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It is all that we claim for it. Write to

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you are able to purchase bran at a reasonable price, it undoubtedly would be of benefit in the ration, although I do not recommend its use in any large quantities. If you are dependent on prairie hay or corn-stover for roughage, the addition of a small amount of cottonseed-meal will greatly benefit the ration, as this meal is very high in protein, while corn-stover and prairie hay are very deficient in that element.

From the results of many experiments it has been generally considered unsafe to allow hogs to get much cottonseed-meal. I think, however, you could feed it up to 2 pounds per day without injury to the hogs, unless you continue the feeding for a very long period.

A ration of corn with cottonseed-meal and bran will give much better results with your cattle than corn alone. They will make better gains and attain a higher finish. They should be fed at regular periods and should be supplied with an abundance of good water. Salt should also be kept before them at all times.

G. C. WHEELER.

Feeding Rations for Hogs.

For September and October pigs, this time of year and through the winter, how cheap must Kafir-corn be bought to make it as cheap as field-corn at 35c per bushel? Is it worth the extra work of grinding and making into slop in preference to feeding whole?

Is the same number of pounds of "brown" shorts worth as much for these pigs as the "white" shorts?

If you can tell me a cheaper and as good ration for these pigs, than "white" shorts at \$15 per ton and field-corn at 35c per bushel, I would be glad to know it.

Your advice on feeding questions has always been profitable to me. Morris County. R. A. GALBRAITH.

Some excellent results have been obtained at the Kansas Experiment Station in the feeding of Kafir-corn meal to pigs, especially where soy-bean meal or tankage has been added to the ration to properly balance it. In general, I might say, it has been found to

be about 10 per cent less valuable than Indian corn for the production of pork. It is necessary, however, in all cases to grind Kafir-corn as it will not be properly digested if fed whole. From the above results it is evident that Kafir-corn would have to be purchased at 30 cents per bushel or less when corn is worth 35 cents per bushel.

I have no figures at hand which would give the relative feeding-value of the "brown" shorts and the "white" shorts. The shorts which the millers are putting out at the present time are somewhat variable in composition. The "brown" shorts undoubtedly contain quite a large per cent of reground bran, the "white" shorts containing more of the finer and floury parts of the wheat. For pig-feeding, I should much prefer the "white" shorts, and at \$1.50 per ton believe you could not feed a better ration than shorts and corn, equal parts, possibly decreasing the quantity of shorts as the pigs get older.

G. C. WHEELER.

Oil-Meal as an Exclusive Feed.

Will you please give me information regarding linseed-oil meal mixed with water as an exclusive slop for young pigs or any hogs?

Franklin County.

D. F.

The digestible nutrients per 100 pounds in oil-meal are as follows: protein, 28.2; carbohydrates, 40.1; fat, 2.8. It will be noted from these figures that oil-meal is very rich in protein or flesh-forming material. Its chief value in feeding any class of stock is that it helps to supply the needed protein to make a balanced ration. It is never advisable or economical to feed it as an exclusive ration to any class of animals. If your correspondent is feeding his pigs corn as a grain-ration, the oil-meal slop would add very materially to the results obtained. It is slightly laxative and has a cooling effect on the system, gives a slick coat and a general appearance of thrift and healthfulness in the animal. It is a very valuable feed for the stock-grower to have on hand, and can profitably be fed in small quantities to almost

any class of animals and especially to those lacking in thrift. As an exclusive diet, I would not advise its use it being too laxative and also as a rule too expensive.

G. C. WHEELER.

PROGRAM INTERNATIONAL JUDGING.

Following is the official program announced for the judging at the International Live Stock Exposition, opening at Chicago, December 16, and continuing until Saturday, December 23. The opening day, it will be observed, is devoted to the Students' Judging Contest, such an arrangement being necessary in order that the regular judging, beginning Monday morning, may not be interfered with in any way. It is the policy of the management to push forward the work of placing prizes as rapidly as possible, beginning at 9 a. m., Monday the 18th. The judging of steers, wethers, and barrows on that day is rendered necessary in order that the slaughter test may be carried out during the week.

Program for evening show will be issued each evening.

CATTLE DEPARTMENT.

Saturday, December 16.

Students' Judging Contest.

Monday, December 18, 9 a. m.

Pure-bred and Grade Bullock Classes Complete.
Hereford Breeding Classes.
College and Experiment Station Fat Cattle in Clay, Robinson & Company's Specials.

Carload Lots Fat Cattle.

Tuesday, December 19, 9 a. m.

Hereford Breeding Classes concluded.
Aberdeen-Angus Breeding Classes.
Carloads Feeding Cattle.

Wednesday, December 20, 9 a. m.

Shorthorn Breeding Classes.
Aberdeen-Angus concluded.

Thursday, December 21, 9 a. m.

Shorthorns concluded.
Galloway Breeding Classes.
Red-Polled Breeding Classes.

Friday, December 22, 9 a. m.

Galloways concluded.
Polled-Durham Breeding Classes.
Steers entered for the slaughter test must be placed in charge of committee Monday evening, December 18. The hour for slaughter and for awarding prizes on dressed carcasses will be designated by committee in charge.

SHEEP DEPARTMENT.

Saturday, December 16.

Students' Judging Contest.

Monday, December 18, 9 a. m.

Pure-bred, Grade and Cross-bred Wethers, all classes complete.
College Sheep in Clay, Robinson & Company's Specials.
Carload Lots Native and Range Sheep.

Tuesday, December 19, 9 a. m.

Oxford and Cheviot Breeding Classes.
P. M.—Shropshire and Dorset Breeding Classes.

Wednesday, December 20, 9 a. m.

Shropshire and Leicester Breeding Classes.
P. M.—Southdown and Lincoln Breeding Classes.

Thursday, December 21, 9 a. m.

Hampshire and Cotswold Breeding Classes.
P. M.—Rambouillet Breeding Classes.
Fat sheep entered in slaughter test must be placed in the hands of the committee Monday evening, December 18. Hour for slaughter and carcass judging will be designated by committee.

SWINE DEPARTMENT.

Saturday, December 16.

Students' Judging Contest.

Monday, December 18, 9 a. m.

Fat Barrows, College Classes in Clay, Robinson & Company's Specials.
Fat Barrows, all classes.

Tuesday, December 19, 9 a. m.

Barrow Championship.
Carload Lots Fat Hogs.
Swine entered in slaughter test must be placed in the hands of the committee Monday evening, December 18. Hour for slaughter and judging carcasses will be designated by the committee.

HORSE DEPARTMENT.

Saturday, December 16.

Students' Judging Contest.

Monday, December 18, 9 a. m.

Clydesdales.
German Coaches.

Tuesday, December 19, 9 a. m.

Percherons.
Hackneys.
Clydesdales continued.
8 p. m.—Draft Geldings in Harness, single or pairs.

Wednesday, December 20, 9 a. m.

Shires.

French Coaches.
Percherons continued.
8 p. m.—Draft Geldings in Harness, threes.

Threes.
Ponies.

Thursday, December 21, 9 a. m.

Belgians and Suffolks.
Shires continued.
8 p. m.—Draft Geldings in Harness.
Fours.
Ponies.

Friday, December 22.

Any unfinished Draft or Coach Horse Judging.
8 p. m.—Draft Geldings in Harness.
Sixes.
Ponies.

LIVE STOCK ASSOCIATION MEETINGS ON EXPOSITION GROUNDS.

Monday, December 18.

Evening—Annual meeting International, Hall, Record Building.

Tuesday, December 19.

10 a. m.—Shropshire Registry Association, Wool Office, Record Building.
Evening—Percheron Society of America, Hall, Record Building.
Evening—American Suffolk Sheep Registry Association, Wool Office, Record Building.
Evening—German Coach Horse Society, Press Room, Horse Row, opposite Record Building.

Wednesday, December 20.

2 p. m.—Continental Dorset Club, Wool Office, Record Building.
Evening—American Shorthorn Breeders' Association, Hall, Record Building.
Evening—American Cheviot Sheep Society, Record Building.
Evening—American Southdown Breeders' Association, Wool Office, Record Building.

Thursday, December 21.

Evening—Hampshire Sheep Breeders' Association Office, Record Building.
Evening—American Berkshire Association, Wool Office, Record Building.
Evening—Red-Polled Cattle Club of America, Hall, Record Building.

Friday, December 22.

Evening—American Galloway Breeders' Association, Hall, Record Building.
LIVE STOCK ASSOCIATION MEETINGS DOWN TOWN.

Wednesday Evening, December 20.

Aberdeen-Angus Breeders' Association, Palmer House.
Belgian Horse Breeders' Association, Grand Pacific Hotel.
American Milch Goat Association, not located.

Iams' Horses.

Mr. Buttinsky: A business man's success in business is not made by "kicks" or "professors of colleges." But it is the "push," "the knowledge" of men. The knowing how and what to buy and sell at the right time. The keen, quick, wise judgment at the right moment that leads successful business men on to fortune. In the good old "Quaker town" of St. Paul, Neb., lives an up-to-date business man of this type. He is positively the largest individual owner and importer of black Percherons, Belgians and coach stallions in the United States—157 "top notchers." It's a "cinch" that this is Frank Iams, the "up-to-date" stallion importer, who always meets his many customers "with a smile that won't come off" as he knows that "he has the goods," and he has never yet had to "put up" that \$100 that he "hangs up" to back up his advertisement or catalogue. He simply "saws wood," has a "horse show" daily better than any five State fairs. His "Peaches and Cream" stallions do their own talking. These first-class "black boys" of Iams are "salesmen" themselves; they are models in make-up, real business draft stallions that go out and make \$1,000 in three months for their owner in service fees. Mr. Farmer! Not in 40 years have horses of all classes brought such big ready money as to-day. Grade, draft and coach geldings sell readily at \$150 to \$600, and it will take ten years of breeding to supply the immediate wants of American trade aside from our immense foreign trade. "Get next" to Iams, the old reliable importer of draft and coach stallions. Buy one of these "top notchers" at \$1,000 to \$1,500, guaranteed better stallions than those sold to "Farmers' Stock Cos." by "con salesmen" and "branch barn manipulators." Then breed ten or more mares of your own each year, you will then have an income that will make Tom Lawson think you are a Rockefeller or a Rodgers. Our illustration is Iams' David-de-Volle (24318), Royal Belgian; 5 years old, weight 2,150 pounds; a gold-medal winner in Belgium—a \$1,400 boy. He is a smooth, even proportioned stallion of big, clean bone, an up-to-date drafter from end to end. A "sensational" "Beau Brummel" on dress parade. He always "looks good to me," as he always makes the "cholly boys" sing his praises, and say he is one of Iams' kind that he sells at 50 cents on the dollar.

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AT RICHARDS, MO., DEC. 20, 1905

60 HEAD OF KINGS AND 60 QUEENS OF THE BREED

Eight spring boars, herd headers by On and On, including one by Perfection E. L. out of Dandy Mischiefmaker.

Twenty On and On gilts, including the great show yearling Ideal Lady, who was second only to the grand champion sow and three litter sisters to the first prize winner under a year boar at Missouri State Fair 1905; the others, spring gilts of great merit.

Thirty bred to On and On; 10 by the great Perfection E. L.; 2 by Chief Perfection 2d; 1 by Keep On; 1 by Mischief Maker; 2 by Missouri Black Perfection; 5 by Diplomat; 1 by Phenomenon; 1 by Mascot; 1 by Chief 2d; 1 by Best I Know, he by Perfect I Know, and others by the world's famous sires.

This is the chance of the year to purchase the get of sows bred to this great prize winning son of a great sire. Send for catalogue to

J. R. YOUNG, RICHARDS, MO.

Auctioneers: H. O. Correll, D. P. McCracken, Jas. W. Sparks, John D. Snyder, Lefe Burger.

Iams' "stallion emporium" is compared with a big department store. You have an immense selection of first-class stallions at "let-live prices" and every stallion as represented, a 60 per cent breeding guarantee given that every bank in his town will say is good, \$1,000 of insurance placed on each stallion, if desired, for \$50, in a reliable company. Iams' 25 years of financial success is the best recommendation. Iams' stallions and his manner of doing business is saving thousands of dollars to stockmen. He "butts in," sells more stallions each year, and is knocking high prices off the X-mas tree. You say, why can Iams sell first-class stallions at such ruinously low prices (compared with competitors)? Iams is an up-to-date business man, he is an expert horseman in every phase. Iams buys stallions by special train load. He gets low ocean and express rates. He spends four months in Europe each year selecting the best stallions at least money. Iams knows the horse breeding districts of Europe and is in close touch with the best breeders, and has first choice of all the best stallions. Iams speaks the languages (this alone saves him 20 per cent on every stallion). Iams knows a "top notch" on sight and how to buy him right. He uses his own money, owns his farms, barns, houses, stallions, and all connected with the business. Iams employs no buyers or bunco salesmen to "flim flam" stockmen out of their hard-earned dollars with a fourth-rate stallion. He saves his buyers all commissions and middleman's profits. Iams' motto is, "sell stallions" at small profits, the best in the land, winners and sons of winners. If you visit Iams' home and can pay cash or give bankable note, you will positively buy a stallion before you leave, as he has on his "selling clothes" and lets no good man get away. Get next to Iams, get his confidence and you get a "ripper" at 50 cents on the dollar. It's dollars to doughnuts that you save \$1,000 or \$1,500 by seeing Iams before you buy a stallion. Write for Iams' catalogue and eye-opener.

Petition to Kansas Railroad Commissioners.

EDITOR KANSAS FARMER:—The enclosed petition should, I think, receive the endorsement of every farmer in Kansas. It is being generally signed here. Will you please publish it, call the attention of the farmers to it, ask that they secure as many signatures as possible, and forward it to the State Railroad Commissioners, as soon as December 12? At that date the rate case hearing will be had.

Reno County. C. W. PECKHAM.

To the Honorable Board of Railroad Commissioners, State of Kansas:

Whereas, The prosperity of the State of Kansas depends, largely, on the prosperity of its farmers; and, Whereas, The price of our cereal products is based on its price in foreign markets, less the cost of transportation; and,

Whereas, The State of Kansas is one vast plain, without serious difficulties in Railroad construction, and with easy grades and abundant water and fuel to assist in cheap transportation; and,

Whereas, The railroads traversing the State of Kansas have persistently imposed a higher rate per mile per ton for the transportation of grain through Kansas than they are charging for the same service in other States; therefore,

Be it Resolved, That the Independent Grain Dealers, of Kansas, and the farmers generally, hereby most respectfully but earnestly request the honorable Board of Railroad Commissioners to compel the railroads of Kansas to haul grain as cheaply in Kansas as they are doing the same service in other States.

(Signed.)

Something more than the bare necessities are necessary to make life very agreeable.—Billings.

FREE TO YOU

New book telling how to get more milk money; how to care for cream; how to make butter and a hundred other things. Free if you mention this paper and give name of neighbor who keeps cows.



OMEGA SEPARATOR

produces better cream, is more easily turned and more easily washed than any other. We let you prove it on your own farm before you buy. Send for catalogue and Free Trial offer.

The Omega Separator Co.,

23 Concord Street, Lansing, Mich. or Dept. F, Minneapolis, Minnesota.

The Missouri State Dairy Association.

Although it is sixteen years old, the Missouri State Dairy Association never made itself felt in Missouri agriculture until it elected W. W. Marple of St. Joseph, Mo., as its president. Under his administration this association has forged to the front and must now be considered one of the most active and progressive of its kind in the West.

The sixteenth annual meeting was held at Jefferson City in the Hall of Representatives in the State Capitol on Wednesday, Thursday and Friday, November 15, 16 and 17. The program was a great one and included some of the best speakers that were available. Indeed, this program was the strongest one ever presented by this association at any of its meetings and the amount of good accomplished for the dairy industry of Missouri can never be estimated.

Among the speakers of note who delivered addresses during this meeting were Hon. R. H. Pethebridge, City Milk Inspector of St. Louis; Hon. R. M. Washburn, State Dairy Commissioner; Hon. John Patterson, Kirksville, who is Missouri's pioneer dairyman; Prof. C. H. Eckles of the dairy husbandry department, State University; Hon. Alfred Jones, State Food Commissioner of Illinois; Prof. A. J. Glover, associate editor, Hoard's Dairyman; Dr. D. F. Lucky, State Veterinarian of Missouri; Hon. A. N. Johnson, Highway Engineer, Bureau of Public Roads Inquiry, Washington, D. C.; Hon. Geo. B. Ellis, secretary of the State Board of Agriculture of Missouri; Hon. Edward K. Slater, Minnesota State Dairy Commissioner; Hon. J. Q. Emery, Wisconsin State Dairy Commissioner, and Hon. H. B. Wright, Iowa State Dairy Commissioner.

Kansas was represented on this program, too. John H. Curran is a Kansas man although he is now temporarily stationed in St. Louis. His paper was an excellent one and his subject the "Dairy Gospel in the Wilderness." Mr. T. A. Borman, so long and favorably known for services as secretary of the Kansas State Dairy Association, and in connection with the Continental Creamery Co., also had a place on the program. But last and best and most attractive of all was the splendid lecture delivered by Mrs. Nellie Kedzie Jones, our Mrs. Kedzie; she who made the Domestic Science department of the Kansas State Agricultural College the model after which others pattern; she for whom the Domestic Science Hall of that great institution is named. Although her duties as a minister's wife require her to reside for the present at Kalamazoo, Michigan, she still belongs to Kansas. Her subject was the "American Queen" and her presentation of it was so masterly that it gave new inspiration to her auditors who listened with the closest attention to one who is the best possible illustration of the subject. Mrs. Jones spoke in the evening to the largest audience that assembled at any session of the meeting and she was further complimented by the attendance of the entire student body of the Lincoln Institute, which is the State Agricultural College for colored people of Missouri.

Both President Marple and Secretary M. V. Carroll of Sedalia are to be congratulated upon the success of this great meeting which had only one drawback. The local attendance was not what it should have been.

It is with regret that we announce Mr. Marple's decision to lay down the duties of president of this association. The value of his services to the dairy interests of Missouri are not temporary and can not be told.

However, the association has chosen wisely and well in the selection of officers for the ensuing year. The new officers are as follows: President, Dr. Geo. C. Mosher, Bryant building, Kansas City; first vice president, J. M. Smith, Brookfield; second vice president, D. K. Shields, Eureka; secretary, R. M. Washburn, Columbia; treasurer, D. B. Matthews, Kirksville.

The papers presented at this great meeting will appear in the Dairy Department of the KANSAS FARMER.

Food to work on is food to live on.
A man works to live. He must live to work.

He does both better on

Uneeda Biscuit

the soda cracker that contains in the most properly balanced proportions a greater amount of nutriment than any food made from flour.

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The Veterinarian

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

If in addition to having the letter answered in the Kansas Farmer, an immediate answer is desired by mail, kindly enclose a 2-cent stamp. Write across top of letter "To be answered in Kansas Farmer."

Sores on Cow's Udder.—I have a young Jersey cow that has sores between her flank and her udder; they seem to be little lumps at first, but later break and a little core comes out. They heal but others come. This cow is a town cow and is kept in a small yard and fed on bran and prairie hay. What do you think causes the trouble, and what would you recommend to put on the sores.

Salina, Kans.

A SUBSCRIBER.

Answer.—I should judge that the cow needed more outdoor life and that the trouble seems to be more or less constitutional. Probably more exercise than what she can get in the yard, will be beneficial. As for the sores would advise equal parts of tannic acid and boracic acid, say an ounce of each, put on the sores as often as they come.

Too Much Corn.—Please tell me what to do for a 6-months-old pig that cannot use hind legs; he sits down and drags hind parts; eat heartily and is fat; grows as well as any of the other hogs as I have.

AN OLD SUBSCRIBER.

Pond Creek, Okla.

Answer.—Your pig evidently has the trouble so common in localities where pigs are fed unusually well, and especially young pigs, on too much corn and fattening food. Would suggest that you give the pigs sloppy food and more oats than corn for a while. Let the frame grow to hold the weight of the body.

C. L. BARNES.

Pop Knew.

Tommy.—"Say, pop, what's a diplomat?"

Pop.—"He's a man who, when he can't have his own way, pretends that the other way is his."—Exchange.

State Grange Annual Meeting.

The 34th annual meeting of the Kansas State Grange will be held at Madison, Kansas, December 12, 13 and 14, 1905.

The members of the order in Greenwood County have arranged with the Western Passenger Association for one and one-third fare for this meeting over the railroads in Kansas, on the certificate plan. Each delegate or visitor to the State Grange, when he purchases his ticket to Madison, paying full fare going, will obtain from the agent a receipt for the amount paid, and on arrival at Madison will deposit this receipt with the secretary of the State Grange, who will issue to him a certificate of attendance, which on presentation to the railway agent at Madison will entitle the holder to one-third fare home. Each person must have a receipt, a receipt for two or three persons does not count.

Worry is the worst wolf that comes to our doors.

Pomona Grange.

Shawnee County Pomona Grange will hold a special meeting at 216 West Sixth avenue, Topeka, December 16, at 10 o'clock. Reports of the State meeting will be received, officers for the ensuing year will be elected, and the question of a State agency will be presented. There are accommodations in the hall for those wishing to bring their dinner. By order of the committee.

O. F. WHITNEY,
Secretary.

Hard to Get At.

An English barrister, arguing before the criminal court, remarked with much solemnity to the presiding justice:

"My lord, there is honor among thieves."

The justice looked at him severely. "There is gold in sea water," he replied. "But it cannot be extracted in profitable quantities. Go on, sir."—Answers.

TOURIST CARS POPULAR

The idea that an inferior class of people patronize the tourist sleepers is an error. On many trips only the best class of travelers are found. They are merely men and women of good sense who would rather travel

TO CALIFORNIA

in this manner and save a snug sum of money to be used elsewhere. It is beginning to be understood that it is by no means necessary to spend a large sum of money in order to enjoy a trip to the Pacific Coast. If you cross the continent in one of the tourist sleepers of the

UNION PACIFIC

You will enjoy your trip and save considerable money.

WHEN WRITING ADVERTISERS PLEASE MENTION THIS PAPER.

Miscellany

The Farmers' Institute Work. MORE ORGANIZATION NEEDED AND MORE MEETINGS IN SMALL PLACES.

EDITOR KANSAS FARMER: Kansas was one of the first, if not the first Western State, to inaugurate a system of farmers' institutes. Marvelous good has been accomplished by the Agricultural College workers who have gone to the "uttermost parts," as it were, to report the progress of their experiments. And this work has been done with probably the smallest financial appropriation made in any State. States all around us appropriate from \$4,000 to \$10,000 a year for institute work and also have the generous cooperation of the railroads. Kansas has never had over \$2,000 a year and this year only \$1,500, and practically no cooperation from the railroads nor other corporations or enterprises that reap benefit from the result of these institutes. Heretofore about two-thirds of the entire appropriation was spent in railroad fares and practically the other third in hotel bills at places of meetings. This year in most cases the local committees have insisted on paying for the hotel entertainment of the speakers sent from the college, which means, of course, that our limited fund will be able to take care of a few more institutes.

It is absolutely impossible to make the institutes very effective in advancing agricultural interests by a haphazard jumping about, first here and then there. Therefore it is the aim this year to keep the work somewhat in circuits of from one to two weeks, emphasizing on each trip the subjects of greatest educative value to that particular territory. In working out this plan institutes have been held where none had ever been held before, the institute organizer, not waiting for an invitation but asking the local community to arrange for a meeting. Recently a trip was made that covered eight towns, not one of which had asked for an institute, and two or three of them hardly disposed, at first, to welcome the proffered help, which they looked upon as impracticable. In not one of these places was there a local institute organization. And yet good meetings were held in all places, organizations were effected, constitution and bylaws adopted and plans are under way for second meetings. In all places the college speakers were treated with extreme cordiality and the people of

those communities are drawn nearer the institution that they, by their taxes, are helping to support. They are beginning to feel more keenly that they are entitled to receive help from the college that is using so much of their money. They are coming to see, too, that the money is wisely invested in educating the boys and girls and is carrying on costly experiments of practical interest to them.

The greatest need in the work is organization. Every county in Kansas should have a county institute organization. The State law provides that when an organization has been in existence one year and is doing actual work it may receive aid to the amount of \$50 per year. In many counties this is used for premiums for exhibits at the institute and in others it is used for prizes for boys' contests in raising corn. One county this fall used \$41 in cash prizes to boys and the impetus given to agriculture in that county is hard to estimate.

In most counties the central organization should organize several local institutes, giving each a share of the financial aid or its delegates a voice in its use. Frequently the most valuable institutes are those held in distinctly rural communities, away from the large towns. A live central organization could easily arrange for local institutes at all of the villages of the county, spending only one day or a half day at a place and then having later a big annual institute in the most convenient place in the county, usually the county seat. In fact many local communities in Kansas have monthly institutes. The farmers about Rome, Sumner County, have kept up a successful institute with monthly meetings for five years with help from the Agricultural College at one meeting a year. They will hold their annual meeting this year, Dec. 7 and 8, when Professor TenEyck and Professor Wheeler of the Agricultural College will meet with them.

This office has no means of knowing whether organizations are maintained except by voluntary correspondence on the part of the local officers. In all probability most counties have had sometime in the past an organization, but it is also very probable that in two-thirds of the counties of Kansas such organizations have lapsed. Now it is the earnest desire of the regents of the Kansas State Agricultural College that every county in Kansas shall have a real, live, county institute organization that will hold one or more meetings every year. The secretary is ready to render any assistance in his power to

This Little Six-year-old Girl is with one small foot lifting both plows of the EMERSON Foot Lift Gang, also her father, who weighs

196 LBS.

**You Can't
BREAK This
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It's made to last as long as you live. The frame is in one piece. It's high grade carbon steel, tough and strong. The wheels are staggered to make them strong, and the tires are 2 inches wide, so it's an easy pull on the horses. All wheels are equipped with **2000 Mile Magazine Axles.** In fact the

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is all that a plow ought to be. It's made to do continuous hard work and do it EASILY. Many of the work-killing features are patented. No one else could use them if they wanted to. You can count on doing your plowing easier and more thoroughly with the Emerson Foot Lift Gang. It's easy on the team—it's easy on you and it will plow level, even, uniform furrows every time, no matter how many obstructions are met. It's the plow you've been wanting and the plow you need. Write me today.

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men who are thinking of buying a
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Think of it! Every shovelful of coal you burn in a Wilson Hot Blast Heater produces as much heat as two shovelfuls of coal in other stoves.

The Wilson Hot Blast Heater is constructed upon entirely original principles. It takes its draft from the top, not the bottom. By this patent method of taking the draft from the top, (shown in illustration) and found only in the

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perfect combustion is secured; the fire is controlled; twice the heat generated; one-half of the fuel saved.

The Hot Blast Down Draft turns into heat all the gas generated from the fuel. In all other stoves this is wasted.

The Wilson Heater is the most efficient, economical and durable heater known. Made in different styles for soft coal and also for wood. Picture shows the soft coal heater.

If your dealer does not sell Wilson Heaters, write us. We will tell you where to get them, and send you a book on house heating free.

SIMMONS HARDWARE CO., St. Louis, Mo.
Wilson Ranges enable the inexperienced cook to do perfect baking.



bring this about. The office has blanks, suggestions, etc., that it will send out to any one interested, on request. It need not take many people to effect an organization, that, if handled properly, will have great influence upon the agricultural interests of the county. In one county recently a few people met and organized a county institute and decided to hold six meetings a year, two in each of the three towns of the county, emphasizing certain subjects at all three towns for the first meetings. Another county organization will hold four meetings each year in the four villages and one meeting in the county seat.

This office would like to have the help of more of the successful farmers and stockmen and dairymen in this institute work. Farmers like to hear from one who has, at his own expense, worked out certain experiments. The secretary has had some very kind letters of acceptance but more declinations. These last are from too great modesty. The State needs the help of its successful farmers in helping others to become successful.

During January and February the institute organizer will devote his whole time to helping in this matter of organizing new institutes, both by correspondence and by personal visits. He hopes to be able to report a great many organizations by the first of March. Then this office will hereafter keep such a close record that few will be allowed to lapse. During these winter months he will also perfect arrangements for several series of institutes, seven in a series, for the last week in March and first week in April, when probably a dozen men can be spared from the College, and they will be assisted by some of the leading farmers of the State.

During these months, also, the secretary will be glad to assist in holding local institutes over a county, giving a whole week to a county. It only needs one earnest farmer to get behind this movement if there is not now a regular organization.

Address for further information Secretary, Farmers' Institutes, Kansas State Agricultural College, Manhattan, Kans.

He is rich who has no wants.

Christmas Holiday Excursion Rates
via the Nickel Plate Road between Chicago and Buffalo. Dates of sale December 23, 24, 25, 30 and 31, 1905, and January 1, 1906, at a fare and a third for the round-trip, with return limit of January 3, 1906. Through train service to New York City, Boston and other Eastern points. No excess fare. Individual Club Meals served in Nickel Plate dining cars. Three through trains daily from La Salle and Van Buren street station, the only depot in Chicago on the elevated loop. No. 39.

THE WORLD'S A STAGE
and the great actors all shave—chiefly with Williams' Shaving Soap.

\$5,000

Reward will be paid to any person who can find one atom of opium, chloral, morphine, cocaine, ether or chloroform in any form in any of Dr. Miles' Remedies.

This reward is offered because certain unscrupulous persons make false statements about these remedies. It is understood that this reward applies only to goods purchased in the open market, which have not been tampered with in any way.

Dr. Miles' remedies cure by their soothing, nourishing, strengthening and invigorating effects upon the nervous system, and not by paralyzing and weakening the nerves as would be the case if these drugs were used.

For this reason Dr. Miles' Anti-Pain Pills are universally considered the best pain remedy.

"I have suffered for 25 years with severe pains in my head, heart and back, and have tried everything. I could get and could not find any relief until I got a box of Dr. Miles' Anti-Pain Pills. I suffered as long as 12 hours at a time with such severe pains that I feared I would lose my mind. The Anti-Pain Pills gave me relief in from 10 to 20 minutes. I do not have to use Morphine any more. I wish you would publish this so that other sufferers may find relief."

I. A. WALKER,
R. F. D. No. 6, Salem, Ind.
Dr. Miles' Anti-Pain Pills are sold by your druggist, who will guarantee that the first package will benefit. If it fails he will return your money. 25 doses, 25 cents. Never sold in bulk.
Miles Medical Co., Elkhart, Ind.

In the Dairy

Ration for Cows.

Please give me a ration for my cows. I have alfalfa hay. Corn chop is worth 85c per hundred, corn two-thirds and oats one-third 90c per hundred, bran 80c. My hay cost me \$6.00 per ton. Spelts is worth 25c per bushel of 40 lbs., or 75c per hundred ground.

One of my cows weighs about 850 lbs. and is giving about 22 to 24 lbs. of milk. Has been giving milk since May 19. Another one will weigh about 750 lbs. and will be fresh about December 10, and will probably give 16 quarts or 32 lbs. a day. This will be her third calf. My others are just heifers, so just give it for the two I mentioned.

Oil cake and cottonseed-meal are pretty high.

The old cow has been a persistent milker; gave in six months 5,639 lbs. of milk, commenced with 4.10 per cent and has gradually increased till now it is about 5 1/4 per cent. She is ten years old and probably needs a little extra care.

W. M. SHIRLEY.

Brown County.

I am very much pleased to note the care and attention you are giving to the feeding of your dairy cows, also the weighing and testing of the milk. If more of our dairymen who are making that their only business would follow such methods they would secure much better results.

If you have first class alfalfa hay for roughage, the problem of feeding your two cows will be comparatively simple. There is no better feed for the production of milk than alfalfa, and I do not think you will find it necessary to purchase any of the expensive feeds such as linseed meal, cottonseed-meal or gluten feed, sufficient protein being supplied by the alfalfa hay.

For a grain ration at the prices mentioned, I think you will find the mixture of corn and oats a very satisfactory one unless the proportions are two-thirds corn to one-third oats by measure instead of weight. In that case it might be well to add a small quantity of bran to your ration.

If the old cow which you mentioned appears slightly out of condition, it may be well to give her a little oil meal. The younger cow which you expect to be fresh early in December should not be fed too heavily previous to calving. Probably, alfalfa hay will be all that she will require. After freshening, begin grain feed very gradually, increasing the feed as long as she responds to it with increased milk flow. This rule will determine the quantity of grain better than any fixed amount which I might give you.

G. C. WHEELER.

Renting a Dairy Farm.

I give the rules prevailing in the Eastern and Middle States, says a writer in the Prairie Farmer. Cash rental of a good farm should be about 8 per cent of the value, if not stocked, and if well stocked as a dairy farm, then about 10 per cent of the gross value of the farm and stock. But cash rental of farms is rarely advisable. The tenant has every inducement to "skin" the farm, and leave it in a worse condition than he finds it. The man who rents on "cash rent" basis, for any considerable time, must be more skillful than most men if he can keep up the condition of his farm by tenant labor.

When worked on "shares" the fol-

lowing are the rules commonly followed in the East, varied to suit extreme conditions, but on the average farm they apply: The owner furnishes one-half the seed grain needed for the farm, all the tools except wagon, replaces the natural wear, furnishes the material needed for new fences or repair of the old ones, pays all the rental of the machine in cutting silage and one-half the cost of fuel in cutting silage, and one-half the wages of the man running the engine. The farmer also furnishes all the material needed for repairs about the farm and does the repairing of buildings as the result of natural decay. On a dairy farm the owner furnishes the cows except one, the tenant having his butter from the undivided butter, or what is preferable, the farmer furnishes all the cows, the tenant accounting for the butter used by him, the milk for use of the family being taken from that produced on the farm without charge. The tenant is to have 100 bushels of undivided oats, or equivalent in other grain raised on the farm for feed for his horses, hay for the team to be supplied from the undivided hay.

The tenant should work out or pay the road taxes, furnish the needed team and wagon for the work on the farm, one-half all seed needed on the farm, do all the work on the farm, make all the repairs to fences and make all new fences (such work not to exceed the average yearly fencing required on the farm), pay all the help to do the work, harvest and thrash the grain (except as above stated) keep the fields in good repair, and the farm in general, good condition, cutting down all foul or superfluous growth, and, in general, conduct the farm as it needs to be conducted, the proceeds of the farm to be divided share and share alike between the tenant and the owner of the farm.

This means that the hay, grain, straw and so forth needed for the use of the stock on the farm, belongs to the farm and only the surplus is divided. A garden spot of suitable size should be for use of the tenant gratis. This does not mean an acre for potatoes and the same for similar crops, but a suitable garden for early potatoes for family use in summer, garden vegetables and so forth.

Where cows are carded and brushed every day while in the stable from November to May, the tenant should be allowed to pay for one-half of this work.

The production of the cows will thereby be increased to such extent that the owner of the cows can well afford to pay this. It amounts to between two and three minutes per cow per day. This would mean about eight hours per cow during the six months they are in the stable, or say \$1.25 per cow, one-half of which the owner should pay. In a twenty-cow dairy this would mean about \$12.50 to be paid by the owner to the tenant. Be liberal and make it \$15. It will pay you.

Now a word as to the lease itself. There is not one lawyer in twenty that knows how to draw a farm lease and cover the essential points. He must know farm contingencies and conditions. I will name a few of them. The owner of the farm is the one that carries nearly all the risk, certainly much the greater portion of it. He carries the same risks of drouth, hailstorms, windstorms and natural providences as the tenant. He runs all the risk of incompetence, shiftlessness and bad faith on the part of the ten-

ant. He should, by every means, so far as possible in his lease, protect himself from these results:

The lease should contain or have attached (1) a full inventory of every article of personalty delivered to the possession of the tenant.

(2) It should provide that all property is to be deemed the property of the landlord and in his possession until the same be actually divided.

(3) It should provide that no hay or grain needed to feed stock, or used for that purpose, should be sold or removed until actually divided, nor until it shall be apparent that it will not be needed to feed cattle, nor until divided by mutual agreement.

(4) It should provide that the owner of the land shall direct when and what fields shall be broken or seeded down, and direct what crops shall be put on each piece or lot.

(5) It should provide that the manure shall be drawn out, when, where, and as the owner shall direct, and careful provisions made for saving the liquid manure.

(6) In the lease the manner of caring for and feeding the stock should be carefully described, also the manner in which the dairy shall be conducted and what use is to be made of the milk, whether butter or cheese, or if for general market, all the necessary conditions specifically set forth.

(7) It should determine the manner for repair and building of fences and time of doing the same.

(8) It should provide for the care of tools, providing that the same be kept housed and in order.

(9) Provisions should be made for the service of cows, and fix the time of year the cows shall be served so as to come in to suit the conditions of the dairy and markets of the farm, and provide that a record of the service of each cow be kept, and a record of the same furnished to the owner at least twice a month.

(10) Provisions must be made for the possession of the plow lands by the incoming tenant as soon as Sept. 20 to enable him to do his fall plowing, and for barn room for him for that purpose.

(11) Provisions must be made that the tenant shall at the end of his term leave on the premises as much hay, silage, grain and so forth as there was there at the commencement of his term.

(12) Careful provisions should be made for the recovering possession at the end of the term, or other sooner termination of the lease. The laws of different States differ widely in this respect and this must be drawn in accordance with the laws of the State where the farm is located. It should be always done by a lawyer. Better pay him \$2 or \$3 for drawing lease that will keep you out of trouble than from \$25 to \$100 or perhaps more for getting out of trouble because of a carelessly drawn lease.

This latter clause should contain a provision that the tenant shall work the farm in the manner described, and in a good and workmanlike manner; that he shall cultivate and harvest crops in the manner observed by first-class farmers; and that in case he shall fail to faithfully perform all the conditions of the lease he shall forfeit all claim thereunto and the owner shall have the right to proceed at once for the recovery of the possession of the premises in the manner pointed out in the lease.

Last, but not least, cut out this article, take it to your attorney and say to him you want your lease drawn so as to cover all the points therein contained, as well as all others your ex-

DE LAVAL SEPARATORS SAVE THE MOST CREAM

No creameryman today thinks of operating his creamery without a cream separator. In order to make his business pay he must use a cream separator, and it must be the one which saves the most cream. If he is buying cream instead of whole milk he is particular in seeing that his patrons use only the best separators. In order for him to make good butter his patrons must deliver good cream. This is why over 98 per cent of the world's creamerymen today use DE LAVAL machines exclusively. — why the biggest and most successful creamery concerns advise their patrons to use the DE LAVAL and no other. They know by experience that the DE LAVAL will save the dairy farmer the most cream, save it in the best condition, wear longest and prove most profitable. If you own three or more cows a DE LAVAL machine will lessen your work and expense fully one-half and double your profits. The Cream Separator is just as necessary in successful dairy operations as it is in the case of the creamery. To get all the profits from your cows you must first get all the cream and that means using a DE LAVAL machine. The creameryman knows from years of actual experience, — why not follow his example and get in line today for a DE LAVAL separator by writing for our illustrated catalogue of farm and dairy machines.

THE DE LAVAL SEPARATOR CO.
RANDOLPH & CANAL STS. 74 CORTLANDT ST.
CHICAGO NEW YORK

perience or his shall suggest as desirable. Paper is cheaper than lawsuits. A man who intends and is willing to do what he should is willing to be legally bound to do so. If he does not so intend, it is certainly important that he be so bound.

The above rules are applicable to the average farm. There are farms where the same labor will bring twice the results of other farms. In such case the rules should be adapted to the condition.—C. L. P., in Prairie Farmer.

The Problem of Dairy Cattle Improvement.

A. S. ENNIS, CALIFORNIA, BEFORE THE MISSOURI STATE DAIRY ASSOCIATION.

There is no subject that can come before this association of more importance to the people here assembled than the subject of this paper. In spite of the hundreds of splendid cows in this State, the average milk-production is stated to be considerably less than 3,000 pounds, and butter less than 150 pounds per year per cow. It follows that the owners of these average cows—of the cows above the average and of all of the cows below the aver-

EMPIRE

Dollar Making
Easy Cleaned
Easy Running
Durable
Simple

Cow Owners

THIS IS ADDRESSED TO YOU.

You own cows, and care for their milk. Why? To make money. If you handle the milk the old fashioned way, you may make some dollars. If you have any kind of a cream separator, you will make more dollars.

If you want to make every dollar possible from your cows get an Easy-Running Empire Cream Separator.

Why an Empire? You want to know why, and we want to tell you why. Here are a few reasons: The Empire will skim clean. Will turn easily. Is simple in construction. Is easily cleaned. Will make the most dollars for you.

Many separators have one or more of these qualifications. The only one that has them all is the Empire.

Let us prove our statements to you. Don't take our word for it. Investigate thoroughly before you decide. The more thorough your investigation, the more completely you will prove to yourself that the Empire is the cream separator you need.

Universal popularity is a sure sign of merit. The sales of Empire machines have increased by leaps and bounds; 1000 per cent in the past four years. That means something. It means a whole lot. With all this phenomenal success there is not one case where an Empire user has not become an enthusiastic friend of the little machine.

Write for our free booklet. Don't delay, delay means money lost.

EMPIRE CREAM SEPARATOR CO.,
BLOOMFIELD, N. J.
Temple Block, Kansas City, Mo.

What You Gain

In a few words, you gain this by using a Tubular: (1). One-quarter to one-half more cream, because Tubulars skim by centrifugal rise in pans. (2). One-half to twice as much for butter, because Tubulars remove dirt and bacteria, thus making gilt-edge butter possible. (3). Half the work saved, because you finish skimming five minutes after milking, feed warm skimmed milk at barn, and have only the can of cream to care for. Write today for catalog W-165. It tells all plainly.

THE SHARPLES SEPARATOR CO.

TORONTO, CAN. WEST CHESTER, PA. CHICAGO, ILL.

Sharple's
TUBULAR
CREAM SEPARATORS

THE CLEVELAND

is the only **Ball Bearing Separator.** No other can run so easy. You can try it at your home without any expense or obligation to buy. Send for the new free catalogue.

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34 Michigan St., Cleveland, Ohio.

VERMONT
FARM MACHINE CO.
BELLOWS FALLS, VT.

AWARDED



THE IMPROVED
U. S. CREAM SEPARATOR
WINS
GOLD MEDAL
The Highest Award

at the Lewis and Clark Exposition at Portland, Oregon. At the Pan-American Exposition in 1901, The U. S. Separator established and continues to hold the

WORLD'S RECORD
For Clean Skimming

As there was no skimming contest at the St. Louis Exposition last year, the U. S. Separator continues to maintain undisputed right to the title of the best machine of its kind.

These facts concern every cow owner who is in the market for a cream separator. To all such our free catalogue telling all about the U. S. Separator should be equally interesting. A copy is free for the asking. Address

VERMONT FARM MACHINE CO., Bellows Falls, Vt.
18 centrally located distributing warehouses throughout the United States and Canada.

age must be interested in the improvement of their dairy cattle. Their future prosperity in the dairy business will be measured more by the extent of the improvement of their cows than by any other one thing, if not by all other things.

Several years ago the writer visited one of the dairies adjacent to Jefferson City, and was told before going that this particular dairy ranked as one of the best here. I found the cows in very good condition and very well fed, but not very well stabled. Amongst many questions I asked was, "Will the herd average a gallon a day the year round?" His reply was: "It takes a mighty good cow to average a gallon of milk a day the year round." Now, my friends, a "mighty good" cow ought to average three gallons of milk per day for the year (if a Jersey) and more if a Holstein or Ayrshire. In improving a herd of grade Jerseys I would set the mark at two gallons per day of 5 per cent milk; and if some other breed, then let them produce the equivalent to this. You can reach this mark and it can then be set higher.

There are six things that I wish to briefly mention in the discussion of this subject: (1) Know what your cows are doing. (2) Dispose of your unprofitable cows. (3) Select a proper sire for your coming herd (this is the most important of all). Then look to your feed, your stable, and proper treatment of your cows.

1. Know what your cows are doing. In other words, weigh and test your milk. If you cannot weigh each milking and test each cow once a week, as the most of you cannot at the present time, then try to weigh the milk and make a test on the 10th, 20th, and 30th of each month, weighing and testing each cow's milk separately, and mark it down on a ruled sheet of paper, using a separate sheet for each cow. This is not nearly as big a job as you will imagine it to be; and if you make these tests on regular days three times a month, you will have for your own information just about as complete a record of the year's work of each cow as though you weighed each day's milk, and you will have only one-tenth of the work. However, it isn't much trouble to weigh each milking, if you have scales in the barn for that purpose, and a sheet of paper fastened to a cardboard, properly ruled, behind each cow's stall. But if you will not do either of these things, then at the very least, weigh the total milk from your whole herd once every ten days (or on the 10th, 20th and 30th of each month) and test it if you can—but weigh it anyhow. You will then know what your herd has done for the year but it will be next to impossible for you to pick out the profitable and unprofitable cows. That is the great advantage of weighing the milk of each cow separately. The extra time you take for this work will be more than paid for by the increased production of your cows, for you will take special interest in just what each individual is doing, and without knowing it you will give your herd better care and attention, and get a better yield of milk on ac-

count of it. Then, also, you can weed out unprofitable cows, and make a saving in this way the following year.

2. Dispose of your unprofitable cows. With a very little figuring you can tell about what your cows are costing you, and you can also figure without trouble what you are getting per gallon for your milk. When you find that a cow is actually losing you money, sell her—not to your neighbor, however, unless he happens to be a butcher. A neighbor of mine at one time sold me this sort of a cow, but he left the country right away. Two years later this cow was done up in nice, tin-can packages and sold for choice meat, with apologies and regrets for its not being done a few years sooner. There is no use in trying to breed up absolutely unprofitable cows, but keep your cows that are showing you a reasonable profit and you can soon build up a profitable herd.

These are really the first two big steps towards dairy cattle improvement, but the most of you will take, or have taken, the third step before the first two, and that is,

3. Select a proper sire for your coming herd. If you have already taken this step, then take the two others just mentioned as soon as you can. The bull is said to be half of the herd, but in a herd of poor grades or native cows he is very much more than half. All of you can afford a good bull, even if you have to buy him when a calf and await his development. By all means buy a registered bull, but don't buy him just because he is registered. There are a lot of them registered that you have no business with, and that ought not to be registered. Get the pedigrees of the bull you contemplate buying, find out what his sire was and the dam of his sire, and be still more particular to find out just what kind of a cow his own dam is. Go slow on this subject and buy the very best dairy-bred bull you can. Pay not so much attention to his ancestor's prize-winnings at the fairs as to what they can do at the pail and churn. Look for steady records all the way back in the pedigree and do not seek for one or two sensational records; do not put too much stress on noted animals far back in the pedigree, but look more to those closer up. Try to be sure you are buying from a reputable breeder; get quotations from several of this class and compare them; then when you have selected two or three bulls that you think will just suit you, write the owner of each, and get from him (if he has not already sent you) full information regarding the sire and dam, grandsire and granddam of the bull you think of buying—don't be afraid to ask him any question you want to know. Remember that it means much to you to make a mistake right here. After you have bought your bull and got him home, give him the best place to stay in that you can and a small pasture to run in, if possible; but do not let him run with your cows. Always lead him with a staff, be kind to him, and you will not probably have a vicious bull to deal with. Only allow one service when your cow is in heat. It is enough and saves

your bull. Keep this bull until a number of his calves have been milked a good part of the first year—and keep all of his first heifer calves that you can which are out of your best cows. If the heifers show good improvement over their dams, you can feel that you are on the right track, and then you will want another bull to cross your heifers. My advice is to get a bull out of the same dam as your old bull, or out of one of her best daughters, and sired by a bull that has been bred to them with success before. You will find that your bull has nicked better with some of your cows than with others. Always keep the best heifers, and calves from them. You will gradually be selling off your old cows and keeping your improved heifers. About the second cross you make, you will find some of the heifers giving more milk and making more butter with their first calves, than their grandmothers ever made for you in the prime of their lives. Then you will begin to realize what this improvement really means. 2. Refer once more to the dairy I spoke of having visited. Some of the cows in this herd could have been bred to a proper sire and in three generations a cow could have been produced that would have given nearly twice the quantity of milk, and the actual cost of feed would not have been more, but most likely would be less.

But let me say right here that I am a firm believer in the special-purpose cow. I would no more think of breeding beef cattle for the dairy than I would think of putting a fine Belgian Draft stallion on the track in an en-

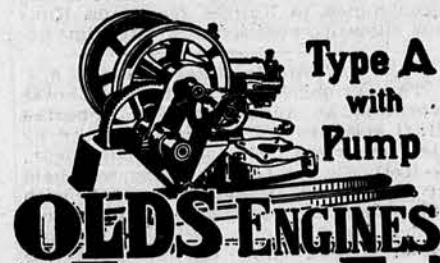
deavor to beat the time record of Dan Patch. You want a cow for the dairy that will convert your feed into milk butter, and that will not become over-fat just because you feed her well. If you are in the dairy business, you cannot afford to raise calves to sell at beef prices. Stick to one of the pronounced dairy breeds or to one of the pronounced beef breeds, and produce milk and butter or meat and hides. You are not rich enough to mix these widely different types, pull out a few lottery tickets in the shape of heifers, and wait two or three years to see whether you get one of the few prizes or not.

(Concluded next week.)

Very Low Excursion Rates for Christmas Holidays.

to all points on the Nickel Plate Road between Chicago and Buffalo. Dates of sale, December 23, 24, 25, 30 and 31, 1905, and January 1, 1906, with limit returning January 3, 1906. Rate one and a third fare for the round-trip. Individual Club Meals, ranging in price from 35c to \$1.00 and Mid-day Luncheon 50c, served in Nickel Plate dining cars; also service a la carte. No excess fare. Chicago city ticket offices, 111 Adams street and Auditorium Annex. Depot, La Salle and Van Buren streets, the only depot in Chicago on elevated loop. No. 40.

The Sunday suit never made the Monday saint.



There is no gas engine as simple as an Olds—compare it with others and this statement is proved. The repairs cost practically nothing.

The Most Economical Engine

For pumping, sawing wood, feed grinding, churning, and all farm work.

The reason why is interestingly told in our catalog mailed on request. Tell us your requirements and we will help you figure out what you need. Send for our catalog showing Type A (2-8 h. p.) Type G (8-50 h. p.) Types K and N (12-1200 h. p., used with our Gas Producer, it will reduce fuel cost 75 per cent.)

Celebrated Picture Free.

For 4c in stamps to pay cost of mailing we will also send you Rosa Bonheur's "Horse Fair," the most celebrated animal picture in the world, size 16x20 beautifully colored, suitable for framing.

OLDS GASOLINE ENGINE WORKS,
920 Chestnut St., Lansing, Mich.

A Penny Saved Is A Penny Earned

Suppose you took a wagon load of potatoes to town and sold them for 40 cents a bushel to the grocer. You and his clerk unloaded them, you drove around in front, tied your team and came into the store for your money. When the grocer paid you he deducted five cents a bushel for the services of his clerk in measuring them. Wouldn't you call that nerry?

Is it not just as unreasonable for a creamery company to expect you to pay them for the services of one of their men to weigh and test your cream?

SHIP YOUR CREAM DIRECT TO US

The difference is this.

When you ship direct you pay only the express.

When you sell to a receiving station you pay the express and a commission besides.

You have the commission and station expense as profit on every pound of butter-fat you ship to us.

Bear in mind WE PAY CASH. OUR PRICE IS THE HIGHEST.

BLUE VALLEY CREAMERY CO.,
ST. JOSEPH, MISSOURI.

Originator of methods for making more profit for the producer.

Armour-Funkhouser Sale of Registered Herefords.

66 COWS — 11 BULLS.

Their ninth annual sale, at which will be offered the best and most useful lot of imported and home-bred Herefords ever offered at public auction in the United States, will be held at the KANSAS CITY STOCK YARDS SALE PAVILION on

December 12th and 13th, 1905.

Mr. Armour will have 54 cows in the sale, 42 of which are imported. Sixteen of these will have calf at foot and others bred to calve within three or four months.

Mr. Funkhouser will sell 12 extra fine heifers and 10 bulls, by his noted prize-winners. The heifers will all be bred to his prize-winning bulls. Remember the dates. Write for catalogue and other information to either

Charles W. Armour, Kansas City.

Jas. A. Funkhouser, Plattsburg, Mo.

The Cheyenne Valley Percherons.

Keota Get There 9829, whose portrait appears on another page of this issue, is a representative of the class of horses bred on the Cheyenne Valley farm which is owned by F. H. Schrepel, Ellinwood, Kans. This horse has appeared in the Kansas and Colorado State Fair show rings as well as in other Western exhibitions during the past three years and he now has to his credit two sweepstakes ten first and two second prizes. He is a close-made horse with the very best of style and great action. He is solid black in color and weighs 1900 pounds. He is recorded in the French Draft Horse Association records and is the right kind to buy.

Mr. Schrepel has many others of the same kind for sale and his prices are reasonable. The Cheyenne Valley Farm can supply you with this kind of horses that are thoroughly acclimated and accustomed to Kansas feeds and Kansas climatic conditions. Write him.

A Notable Horse Sale.

The promised event in the horse world of an auction sale of imported draft stallions and mares advertised by the importers, Watson, Woods Bros., & Kelly Co., of Lincoln, Neb., was held at Lincoln on December 1 and 2, with the exception of the imported mares which were due to arrive at Lincoln about a week before the sale but failed to be there by reason of the delay in transportation, so that it was necessary to substitute 25 Percheron mares from the well known breeding establishments of Wm. Ernst & Son, Graf, Neb.; James I. Barr, York, Neb.; N. D. Merrill, Creston, Iowa; John Povey, Stromsburg, Neb.; Geo. W. Schwab, Clay Center, Neb.; and Humbert & Son, Corning, Ia. This consignment of mares were brought into the sale as an emergency measure so as not to disappoint buyers who came after mares. These mares were not fitted for sale, of course, but under the active demand sold quite well and the consignors were pleased with the general result. It was a matter of disappointment to Watson-Woods Bros. & Kelley Co., not to be able to offer the imported stock but they will be included in their next sale.

It was a great sale with a large representative attendance of buyers especially from Kansas and Nebraska, and the result of this sale certainly demonstrates the fact that imported draft horses can be sold at auction at prices that are satisfactory to both importers and buyers, at the same time giving a good margin in favor of the buyer as well as saving a big expense item to the importer.

It is significant to note that in the two short days 47 draft stallions and mares sold for the snug amount of \$33,590 in cash, a general average of \$714.68. Eighteen imported Percheron stallions sold for \$21,040, an average of \$1,168.88. Four imported Shire stallions sold for \$4,215, an average of \$1,053.75; and 25 Percheron mares and fillies sold for \$8,335, an average of \$333.40.

That the sale was a gratifying success as an important horse event and highly satisfactory to Watson-Woods Bros. & Kelley Co., the importers, is

demonstrated by the announcement made by this enterprising firm at the close of the sale that they would hold another public sale of 100 head of imported draft stallions and mares during March, 1906, and meantime Mr. Joseph Watson of the firm will leave this week after another importation of Percheron and Shire stallions, so that they may be able to offer 100 imported horses at their March sale.

The character of this offering was representative and horsemen present expressed their satisfaction with the same as a worthy and creditable offering. Most of the stallions were young animals, consequently the prices realized were considered quite good for a cash sale.

The following comprises a complete list of purchases at this sale:

IMPORTED PERCHERON STALLIONS.

Hugenot 56856, J. C. Rogers, Ord, Neb.	\$1,605
Chalet 55519, W. P. Green, Washtaw, Iowa.	1,010
Alfort 57375, John A. Peck, Tecumseh, Kans.	1,000
Theilleau 48677, L. J. Cox, Concordia, Kans.	975
Tobacco 58143, J. R. Porter, Jonesburg, Mo.	1,250
Favori 59220, E. T. Albert, Glen Elder, Kans.	1,050
Soudeac 54893, E. A. English, Overton, Neb.	1,000
Villebois 51322, Schee N. Murdock, Milo, Ia.	1,000
Malicieux 54552, Henry Baughman, Sutton, Neb.	1,500
Colonel 57360, J. B. Irwin, Waco, Neb.	1,650
Muscadet 58349, J. B. Davis, Humboldt, Neb.	1,150
Printanier 60056, H. G. McMillan, Rock Rapids, Ia.	910
Montfort 59792, W. I. Jones, Colby, Kans.	1,000
Cholera 58657, J. W. Pinkerton, Norman, Neb.	1,145
Coco 58097, H. G. McMillan.	1,105
Flambard 58608, H. H. Griess, Sutton, Neb.	1,090
Ogier 59896, E. N. Woodbury, Cawker City, Kans.	1,000
Pantin 57377, H. G. McMillan.	1,430
IMPORTED SHIRE STALLIONS.	
Oku 22654, J. A. Sage, Ankeny, Iowa.	\$1,315
Nallstone Big Ben 22605, J. C. Rogers.	800
Nallstone Knight 2d 22610, Andrew Christian, Kirtley, Wyo.	1,000
Nallstone Sirdar 22612, John Povey, Stromsburg.	1,100

PERCHERON MARES.

Bess 40694, H. G. McMillan.	\$470
Queen 28992, F. W. Poos, Potter, Kans.	145
Maud 25273, David Wiens, Glen Elder, Kans.	270
May 33377, A. L. Rockeman, Elk Creek, Neb.	350
Maud 41814, Geo. Hynck, Willbur, Neb.	300
Rose 40695, A. L. Rockeman.	260
Queen 40695, C. R. Hendrick, Glen Elder, Kans.	605
Sweet Marie 21184, F. W. Poos.	350
Hunter, James Caldwell, Glen Elder, Kans.	190

Minney 41626, H. C. VanNoy, Prairie Home, Neb.	320
French Girl 25336, Jas. Caldwell.	380
Agness 34652, F. W. Poos.	275
Mildy 21593, F. W. Poos.	330
Modesty 21223, F. W. Poos.	330
Temista 42361, F. W. Poos.	350
Flo 42359, John Povey.	437.50
Brunette 30859, F. W. Poos.	400
Mindora 42362, John Povey.	437.50
Isabel 42239, H. G. McMillan.	380
Seba 25558, H. C. VanNoy.	275
Maud 23615, A. L. Wilson, Creston, Iowa.	355
Querida 58649, J. C. Rogers.	400
Susie, A. O. Wilson.	270

High-Class Angus at the International.

William Avery, Waldron, Ind., is selling the very cream of his herd at the International auction of Aberdeen-Angus on Dec. 21. The 3-year-old cow, Blackbird Soo, is from a sire and dam of the popular Blackbird family and seven of her eight great grandfathers and dams, are Blackbirds. She is an intensely bred one and animals of such breeding are commanding very high prices at auction. Lucy of Glendale 9th, a Drumlin Lucy, bred by J. Tyson & Co., and consigned to this auction by Mr. Avery, is one of the best show-cows the breed affords and should be looked after by those in search of a prize-winning cow. Other high-class females are listed by Mr. Avery and he also includes the Barbara bull, Gay Barbara, a sensational prize-winner as a calf and yearling that has developed into a good breeding bull. He was sired by the celebrated champion and sire of champions Rosegay, M. A. Martin, Wall Lake, Iowa, includes some exceedingly well-bred Lady Idas, Queen Mothers and Ericas. C. E. Fisher, Ottawa, Ill., and F. C. Fleming, West Lebanon, Ind., catalogue principally imported animals representing the great Pride and Erica families so popular at Ballindalloch and in other leading herds of both Europe and America. David Hadley & Son, Danville, Ind., catalogue the Pride cow, Pride Donna, by the famous champion, Gay Lad, and out of a dam by the Queen Mother bull Black Victor and second dam by the champion and champion sire, Moon Eclipse. A bull and two other female entries included by Messrs. Hadley, will compare favorably in breeding with this Pride cow, and those who have seen their cattle in various auctions know that they represent the best Angus type and characteristics. W. N. Foster, Attica, Ind., who for several years has been exhibiting exceedingly good herds at the State fairs, includes high-class animals sired by the Ballindalloch K. Pride bull, Kentucky Prince, a son of the Blackbird bull, Black Monk, and the noted cow, Imp. Key of Paris. W. B. Seeley, Mt. Pleasant, Iowa, catalogues the Queen Mother cow, Floretta Seeley, a 5-year-old by the champion and champion sire 2d Mayor of Estill, and out of Floretta of Emerson by Imp. Jim Jams. The second dam of this cow was by the famous Abbottsford. Mr. Seeley also includes a good young bull and two other splendid females. All interested in Angus cattle who attend the Interna-

tional Exposition, should be present at this auction. The catalogue can be obtained by addressing W. C. McGavock, Springfield, Ill.

The Cedar Heights Shorthorns.

Kansas does some surprising things in pure-bred live stock, as well as in other things. Last year, at the American Royal, Kansas sent an entirely unknown Shorthorn bull into the show-ring, where he took second prize in a ring of world-beaters. In the American Royal sale he brought the highest price paid for any animal of any breed. Later, this same bull took first prize and championship at the International at Chicago. This is the record of only one animal.

At the State Fair at Topeka this fall another surprise was developed in Shorthorn circles. Cedar Heights herd of Shorthorns, owned by D. H. Forbes & Son of Topeka, appeared in the show-ring for the first time and surprised everybody by their quality and breeding. As they were just off the pasture and not in high flesh they did not win first prize in all classes but they did make a remarkable showing. This showing was all the more remarkable because the herd was almost entirely unknown prior to that time.

Because of these facts interest was at once aroused in the herd that could do these things. A glance at the breeding shows a part of the reason. A study of the methods of feeding explains the rest.

At the head of this herd stands Geo. Cook 14473 by My Lord 116563 and out of Marlan who traces to imported Desdemona. While this bull has never appeared in the show-ring he has proved himself a wonderful breeder. His calves are characterized by very strong back and loins with extra hams and a very blocky, beefy appearance. The second herd bull is Baron Knight 221411 by The Baron 121327 and out of Zalinda 9th, who traces to imported Fashion. The sire of this bull is the grand old bull who stands at the head of Andrew Pringle's Sunflower herd at Eskridge and who has done his full share to maintain the reputation of the breed against all competitors. Both of these magnificent bulls are for sale because of their relationship to the herd. So well pleased is Mr. Forbes with Baron Knight that about half of his present herd of cows is bred to him.

Another bull in service is the Young Scotch bull, Royal Violet 243374 by Prime Minister 211526 out of Golden Violet, who traces to imported Wood Violet. This bull is just beginning his active life and is not for sale.

The female herd embraces Elizabeths, Fidgets, Young Marys, Young Phyllis, and White Roses, though most of them are Sir Knight 124403 calves.

There are now 14 splendid young bulls ranging from 8 to 20 months old for sale and about a car-load of cows and heifers as Mr. Forbes desires to reduce his herd. The writer has seen many Shorthorn herds but he has never seen so small a herd wherein all the animals were so good. This herd now numbers about 65 animals and they are jewels. See the advertising card on page 1240 and write about these cattle. The Messrs. Forbes are absolutely reliable.

BREEDERS' SALE IN COLISEUM, BLOOMINGTON, ILLINOIS JANUARY 3, 4 AND 5, 1906 200—HORSES—200

ON WEDNESDAY AND THURSDAY, JANUARY 3 AND 4

we will sell

160 Registered Percherons, French Drafts, Shires, Clydesdales, Horses, Mares, and Fillies.

These horses are consigned by the very oldest breeders in the State and out of the very best families and show herds that represent over 2,000 premiums to their credit. We don't claim to have all of the prize-winners of France, England, or Scotland, but we do claim to sell you horses that were good enough to win at St. Louis, Springfield and other fairs in 1904 and 1905. This will be one of the largest sales of pure-bred horses ever held in the State. These are the WIDE-AS-A-WAGON KIND and a number of them will weigh over 2,000 pounds.

Consignors—Ed. Hodgson, El Paso, Ill., Percherons; D. Augstin, Carlock, Ill., Percherons; Hurt & Son, Arrowsmith, Ill., Percherons; Moots & Dodson, Normal, Ill., Percherons and Combination Horses; John C. Baker, Manhattan, Ill., Percherons; Hurt & Reid, Arrowsmith, Ill., Percherons and Shires; R. Stauffer, Ellsworth, Ill., Percherons; M. C. Marry, Holder, Ill., Percherons; A. M. Storm & Son, New Lenix, Ill.; B. S. Harper, Larose, Ill.; S. S. Kirkpatrick, New Richmond, Ind.; Geo. C. Beck, Attica, Ind.; Ed. Murray, El Paso, Ill.; F. M. Smith & Son, Crawfordville, Iowa; and 38 other consignors.

C. W. HURT, Manager, Arrowsmith, Illinois

ON FRIDAY, JANUARY 5, WILL SELL

40 Registered Trotters, Coach, All-Purpose, Grade, Draft, and Saddle Horses, Mares and Fillies.

This offering will consist of some of the very best bred ones in the State and some with very fast marks, also a lot of gentlemen's drivers, with several good match teams and a lot of All-Purpose horses. This will be a lot of very high-class horses. These horses are consigned by the very best breeders in the State and a number of them closing out their entire herds.

Publishers Paragraphs.

Oh, tradesman, in thine hour of ease,
If on this paper you should see,
Take our advice and now be wise,
Go straight ahead and advertise.
You'll find the project of some use;
Neglect can offer no excuse;
Be wise at once, prolong your day,
A silent business soon decay.

—London Tit-Bits.

E. Krauser & Bro., of Milton, Pa., are the manufacturers of this wonderful preparation which has taken the place of the old-fashioned process of smoking meats in a smoke-house. It is far cleaner and more convenient, and it saves a lot of time and work. It not only perfectly cures meat, but gives it a sweetness and delicious flavor that is peculiarly its own and perfectly wholesome. All that is necessary is to put it on with a brush; it only takes a few minutes and there is no opportunity for insects to contaminate the meat.

Any one writing to the manufacturers will receive circulars fully explaining the merits of the process.

The lands of the Los Molinos Land Co. of Red Bluff, Tehama County, California, advertised in another part of this paper, certainly offer a most desirable opportunity for those who want an exceptionally mild climate to obtain home holdings.

The lands they offer in any sized tracts desired by the purchaser and they are of remarkable beauty and fertility.

Level, fertile, without rock or stick to encumber cultivation covered at intervals with individual grand old Burr and Liveoak giants the Los Molinos Lands are the counterpart of some grand old English park, transported to the balmy Sacramento Valley in California. But what is of still greater interest is the fact that both oranges and lemons and the pomelo (grape fruit) ripen here at least six before they do in Southern California. There are but the fewest places on earth where the products of the semi-tropic and temperate climates meet and intermingle, but this most desirable condition obtains on the Los Molinos lands.

It is here that are raised in the highest perfection wheat, barley, oats, flax, corn, and the clovers, and yet at the same time the palm, magnolia, lemon, olive, the bay tree and that king of clovers, alfalfa thrives in the most gratifying manner.

The Los Molinos estate of 40,000 acres lies along the banks of the Sacramento River for 15 miles; it has both steamboat and rail communication with San Francisco and ocean markets.

It is part of the Cone estate, being composed of two famous old Spanish land grants, which being chosen in the early days under Spanish dominion, was the cream and pick of California. The owner in his lifetime devoted it to wheat, barley and stock-raising. His successors are now sub-dividing this grand domain and opening it up to settlement.

Their terms are exceedingly reasonable and they offer to purchasers who buy before Jan. 1, 1906, to rebate cost of railroad fare to Red Bluff where their offices are located.

Farm Work Made Easy.

The Emerson Mfg. Co., of Rockford, Ill., have perfected a really wonderful Gang Plow which they call the Emerson Foot Lift Gang. The plows are controlled entirely by the feet, which leaves both hands free to handle the team.

A convincing illustration of the ease with which plows are handled was given when the six-year-old girl of the inventor with her foot on the lever not only lifted the two fourteen inch plows, but also her father (he weighs 195

pounds) who was standing on the plows at the time.

Those who are interested in performing easier the hard work of the farm should write to Mr. J. L. Emerson, care of Emerson Mfg. Co., Rockford, Ill., for a copy of their large catalogue. And if you send in the names of 3 or more men who think of buying riding plows this season, Mr. Emerson will send you a copy of a valuable book, "How to Grow Corn." This is a book which sells for 50c but it will be sent free as long as the supply lasts. Write Mr. Emerson to-day as above, and receive a copy free.

An Accepted Proposal.

A colored young fellow at Wellington was smitten by a dusky maiden, and, not having the courage to propose face to face, called her up over the telephone. When he got the proper party on the line, he asked:

"Is dat Miss Johnsing?"

"Ya-as."

"Well, Miss Johnsing, I've got a most important message to ask you."

"Ya-as."

"Will you marry me?"

"Ya-as. Who is it, please?"—Kansas City Journal.

How to Completely Remove Corns and Bunions.

They are a source of great annoyance and discomfort, and can be completely eradicated in a simple and inexpensive manner, with no possibility of danger. Cutting with a knife is dangerous and often causes blood poisoning and caustic chemicals are bad. I have quickly and permanently cured myself and will gladly give the information to any one who will send me a stamped self-addressed envelope for reply, absolutely free of cost.

Address, J. C. Bush, Room 5063E Metropolitan Building, New York City.

Farm Telephones a Necessity.

The utility of the telephone to the farmer is becoming more pronounced every year. The endless satisfaction of being in close touch with neighbors, the railroad station, creamery, and city, appeals not only to the farmer but his family as well. The Jul. Andrae & Sons Co., 823 W. Water St., Milwaukee, Wis., specialize in supplying farmers and independent lines with everything pertaining to telephone systems. The Andrae people who have been very successful in establishing telephone systems throughout the entire country, make a special telephone for farmer's use. Their instruments are constructed in such a manner as to enable them to be subjected to extra hard usage. We would advise our subscribers to write for the large book that is being given away free by Andrae Co.

Higher Education.

No class of citizens are so deeply interested in higher or college education than the progressive farmer and his family. Of a necessity ambitious students from the country must leave home, in most cases, in order to avail themselves of this blessed opportunity of youth. Therefore in this connection it is a pleasure to refer to the normal, commercial, shorthand and telegraph school advertised at Chillicothe, Mo., and it is interesting to note that already 961 students have enrolled for their betterment in this institution, and from an economic standpoint the fact that \$102 pays for nine months' tuition, board and room rent is also a matter of some moment. For further particulars send for free catalogue to Allen Woods, President, Chillicothe, Mo.

An interesting pamphlet, interesting to persons looking for opportunity to better their worldly position by securing new lands, is a compilation of descriptions of Western Canada by famous newspaper correspondents. It is published by the Western Canadian Immigration Association of Minneapolis and may be had for the asking if you mention the KANSAS FARMER.

Special Want Column

"Wanted," "For Sale," "For Exchange," and small want or special advertisements for short time will be inserted in this column without display for 10 cents per line of seven words or less per week. Initials or a number counted as one word. No order accepted for less than \$1.00.

CATTLE.

FOR SALE—Fine young D. S. Polled Durham bulls, get of Duke of Rose Pomona III X 1479 and S. H. 16662 out of Canadian Duchess of Gloster 29th. O. M. Albright, Route 2, Overbrook, Kans.

FOR SALE—25 Duroc-Jersey boars, large enough for service and 60 gilts, open or bred. Pigs strong boned and best of color. Prices low. A. G. Dorris, Route 5, Osage City, Kans.

HOLSTEINS—Have been bred to transform their feed into milk instead of tallow. That is the kind to dairy with. It won't cost much to grade up if you buy a bull calf. I have also one yearling bull, extra good. H. B. Cowles, Topeka, Kans.

HOLSTEIN-FRIESIAN BULL—Dutch De Kol, 13 months old. Good size. Well marked, ready for service. Price, \$50. Address D. O. Orr, Route 1, Topeka, Kans.

CHOICE Registered Shorthorn bulls and heifers, cheap. M. C. Hemenway, Hope, Kans.

FOR SALE—Red registered Shorthorn bulls, 11 to 15 months. Must have room for younger stuff. Price right. F. H. Foster, Route 6, Box 18, Lyons, Kans.

FOR SALE—20 Jersey and a few grade Holstein cows. These cows are young and from good families. Price, \$40. F. D. Wiggins, Route 1, Lawrence, Kans.

FOR SALE—Registered Aberdeen-Angus cattle, 5 bulls and 2 cows, well bred and good individuals. Will sell very cheap, as I have to dispose of them within a limited time. C. E. Bouse, Route 5, Holton, Kans.

FOR SALE—One full blooded Holstein-Friesian bull with pedigree. A good breeder. Price, \$50. Address J. W. Mitchell, Box 12, Route 2, Morrill, Kans.

TWO AND THREE YEAR old registered Shorthorn heifers and young cows (bred) at snap prices to close out grand stock at finest breeding. D. P. Norton, Dunlap, Kans.

FOR SALE—The pure Cruickshank bull, Violet Prince No. 145647. Has been at the head of our herd as long as we can use him. An extra animal. H. W. McAfee, Topeka, Kans. (2 miles west of Kansas Ave. on 6th Street road.)

WANTED—Man to milk 25 cows and separate cream. Will pay \$25 per month, steady job to the right man. Miller Bros., The 101 Ranch, Bliss, O. T.

FOR SALE—One straight Cruickshank bull, 14 months old, dark red, extra good animal. H. W. McAfee, Topeka, Kans.

REGISTERED GUERNSEY BULLS—Ready for service. Also pure-bred Scotch Collie puppies. Dr. J. W. Perkins 422 Altman Bld., Kansas City, Mo.

FOR SALE—Registered Jersey cattle. Two yearling bulls. Sires—A son of Bessie Lewis, 32 lbs. butter 7 days, and "Financial Count" (Imported) grand dam held Island butter record 3 years. Sire's dam holds public milk record of 58 pounds daily, and his dam and Island winner in class for 2 years. Her 4 dams 22 to 28 quart cows, and all winners. Sayda Polo Jersey Farm, Parsons, Kans.

SWINE.

FOR SALE—Say! I have some fine, big-boned, broad-backed Berkshires, brood sows or pigs. Want some? Write me; turkeys all sold. E. M. Melville, Eudora, Kans.

FOR SALE—Two registered O. I. C. boar pigs ready for service. A. W. Toews, Inman, Kans.

HORSES.

FOR SALE—The best seven-eighths black Percheron colt I ever saw, coming 2 years old; also other good ones and some fillies. F. H. Foster, Route 6, Box 18, Lyons, Kans.

FOR SALE—Registered French draft and Percheron stallions, mares and colts; bays, browns and blacks. One gray stallion, 13 years old, sound and sure. Jake Howald, Hoyt, Kans.

FOR SALE—Mount Oread 33380—black stallion of great beauty, style and fine disposition, 15½ hands. By Appamantus, out of Frankie Lyons by Mambrino Patchen; second sire Allendorf, out of Alma Mater by Mambrino Patchen, third sire Onward, out of Dolly by Mambrino Chief; fourth sire George Wilke. Dam of Mount Oread, Cosmo by Patchen Wilkes. Price, \$600. Also growthy 2-year-old son, standard, dark bay, for \$200. George W. Maffet, Lawrence, Kans.

FOR SALE or trade, one large, black Jack, 16½ hands high, weight 1150 lbs. Sure foal getter; also one trotting stallion, sure breeder. Thos Brown, Palmer, Kans.

LOST OR STRAYED—Brown mare, weight 1100 pounds, white spot in forehead, barb wire cut on side, somewhat sway backed. Suitable reward for return. J. W. Gillard, 838 Highland ave., Topeka.

SEEDS AND PLANTS.

50,000 TREES AT HALF PRICE—First-class apple, plum, cherry. Plants, shrubs at wholesale. Each tree, \$10 per thousand. Catalog free. Seneca Nursery, Seneca, Kans.

Pure English Blue Grass Seed. One thousand bushels of FANCY English Blue Grass, Strictly Clean. \$6.00 per hundred pounds or \$1.35 per bushell f. o. b. Independence, Kansas. No charge for sacks. Send for sample. UNION IMPLEMENT & HARDWARE CO.

WANTED—Lady Agents \$3 to \$6 per day, introducing into every household our brand new style hat pins. Exclusive territory, success certain. Send 25 cents for sample. W. M. Judy Co., 211 W. 8th St., Cincinnati, O.

FARMS AND RANCHES.

KANSAS LANDS.—I have a choice lot of well-improved farms in Marion County, varying from \$20 to \$50 per acre. Also large list of Western Kansas lands. For full particulars, address, A. S. Quisenberry, Marion, Kans.

FOR SALE—320 acre well improved farm 6 miles from Emporia. Price, \$25 per acre. Write Hurley & Jennings, Emporia, Kans.

GOOD BARGAINS—80 acres, small improvements, \$1,600; 160 acres, 80 acres cultivated, improved, \$3,200; 160 acres, all bottom, fine land, \$5,000; 480 acres, nice smooth land, \$17 per acre; 640 acres, fine wheat section, \$16 per acre. All sizes and kinds. Write to Minneapolis, Florence, or Salina, Kansas, for list. Garrison & Studebaker.

A 320 ACRE FARM within two miles of good town. Good new house, barn and stables, all bottom land, the best of alfalfa land, two artilian wells, one at house and one at barn; good orchard, good for any kind of crop, a good fish pond near the house with plenty of fish. J. Bainum, Arlington, Kans.

FOR SALE—Good 8-room house, cellar, cistern, well, barn and lot of other buildings, fruit, alfalfa, blue grass. 3½ acres of land in the city of Hope, Kansas. Address G. A. Stites, Hope, Dickinson Co., Kans.

FOR SALE—A good farm of 320 acres in Anderson County, Kansas, main line Missouri Pacific railway, R. F. D., near to school and church, American community, good improvements; \$22.00 per acre. A bargain. Address O. J. Prentice, 156 Wabash avenue, Chicago.

FIFTY farms in Southern Kansas, from \$15 to \$70 per acre; can suit you in grain, stock or fruit farms. I have farms in Oklahoma, Missouri and Arkansas for sale or exchange. If you want city property, I have it. Write me. I can fix you out Wm. Green, P. O. Box 988, Wichita, Kans.

CHASE COUNTY PASTURE FOR SALE—Consisting of 2,040 acres, located one-half mile from Bazaar, Kansas, on the line of the Orient Railway. All under fence. There is never-failing water in abundance with about one and one-fourth miles of creek with some timber and never-failing springs. Price, \$10 per acre. Address J. J. Carter & Co., Central Nat'l Bank Bldg., Topeka, Kans.

LAND FOR SALE in Western part of the great wheat State. H. V. Gilbert, Wallace, Kans.

SAV If you want a tame grass, corn and wheat farm address Buckeye Agency, Williamsburg, Kas.

KANSAS LAND FOR SALE.

Corn land, wheat land, alfalfa and ranch land. Write us for prices. Niquette Bros., Salina, Kansas.

FOR SALE—80 acres Arkansas second bottom, 4 miles east of Great Bend. All in cultivation. Fine alfalfa land. Address R., care Kansas Farmer, Topeka, Kans.

POULTRY.

BUFF ROCKS—A few good cockerels for sale at \$1 each. H. M. Stephens, Munden, Kans.

BUFF COCHIN BANTAMS—\$2.50 per pair. An appropriate Christmas or birthday present that will delight the children. James C. Jones, Leavenworth, Kans.

FOR SALE.

15 varieties pure-bred chickens, ducks, geese and turkeys. Fowls and eggs at low prices. Write for catalogue. H. H. HINKER, Mankato, Minn. R. R. 4.

MISCELLANEOUS.

FOR SALE—Second-hand engines, all kinds and all prices; also separators for farmers' own use. Address the Geiser Mfg. Co., Kansas City, Mo.

EARN FROM \$87.50 to as high as \$155.10 per month. Wanted—400 young men and sound men of good habits to become brakemen and firemen. Big demand in Wyoming, Nebraska, Kansas, Colorado, and Missouri. Instructions sent by mail; stamp for reply. Northern Railway Correspondence School, Room 202 Sykes Block, Minneapolis, Minn.

FOR SALE OR TRADE—Livery barn, 50 by 70 feet, nearly new, on corner lot Fredonia, Wilson Co., Kans. Will trade for stock of hardware or land in Central or western Kansas. H. M. Davis, owner, Thayer, Kans.

WRITE TO-DAY to Box 483, Seneca, Kansas, for particulars as to lay-out to a good blacksmith.

WANTED—Your apples to grind. I do custom work every Saturday at my mill on West Sixth st. H. W. McAfee, Topeka, Kansas.

AGENTS WANTED Sell \$1 bottle Sarsaparilla for 35¢, best seller; 200 per cent profit. Write today for terms. F. R. Greene, 115 Lake St., Chicago.

WE PAY \$36 A WEEK AND EXPENSES to men with right to introduce poultry compound. Year's contract. IMPERIAL PUL. CO., DEPT. 18 PARSONS, KANS.

BED-WETTING CURED free Dr. F. E. May, R267, Bloomington, Ill.

THINK OF IT! An Enlarged Portrait, Framed, for 55 cents. Write for terms. Life is short! Do it now! NATIONAL PORTRAIT CO., Chicago, Ill.

TAPE-WORM Expelled alive in 60 minutes with no fasting. Large pamphlet for 5¢ stamp. DR. M. NEY SMITH, Specialist, 509 Pine St., St. Louis, Mo.

Stray List

Week Ending Nov. 25, 1905

Pottawatomie County—C. A. Grutzmacher, Clerk STEER—Taken up by Emil Zoeller, in Blue tp., (P. O. Manhattan), Nov. 6, 1905, one steer, branded Z or V; valued at \$25.

Labette County—A. E. Townsend, Clerk. MARE—Taken up by E. Beck, in Hackberry tp., Oct. 22, 1905, one 9- or 10-year-old sorrel mare, 15 hands high, white spot in face, left hind foot white 3 splits in right ear; valued at \$30.

Marion County—D. D. McIntosh, Clerk. STEER—Taken up by W. J. Gutach, in Coffey tp., Aug. 4, 1905, one 2-year-old roan steer, (Western) marked anchor brand on left side; valued at \$25.

Week Ending Dec. 2, 1905.

Shawnee County—A. Newman, County Clerk STEERS—Taken up by Jacob L. Strohm in Auburn tp., October 24, 1905, one red and white steer, some white on neck, with white face; one light red steer, some white on face with bush on tail; valued at \$16.

PARK PLACE HERD

OF

Poland-China

Sale at Valley Center, Kans., Dec. 21, 1905

A choice draft of sows and gilts and young boars including the show herd shown at the leading Kansas Fairs this year. Sows and gilts will be bred to Prince Proud, grand champion at the Hutchinson State Fair. All the choicest breeding and best individuality. Write at once for catalogue.

Auctioneers: Lafe Burger, Wellington, Kans.; Jno. D. Snyder, Winfield, Kans.

A. P. WRIGHT,
Valley Center, - - Kansas.

POULTRY BREEDERS' DIRECTORY

B. P. Rock Cockerels \$1.50 each; W. H. Turkey toms, \$2.50 each. Address or call on T. J. Sweeney, Route 2, Maple Hill, Kans.

A CHOICE lot of pure-bred White Wyandotte cockerels for sale at \$1 each. Mrs. C. E. Williams, Irving, Kans.

WHITE Plymouth Rock cockerels for sale. Pure white, yellow legs, bay eyes, fine shape. Write for prices, they are right. J. C. Bostwick, R. 2, Hoyt, Kas.

CHOICE B. P. ROCK cockerels and pullets—Cottie pups; send for circular. W. B. Williams, Stella, Neb.

S. O. B. LEHORNS EXCLUSIVELY—Some fine young cockerels and pullets for sale cheap taken early. J. A. Kaufman, Abilene, Kans.

EGGS FOR SALE—S. O. W. Leghorns, W. Wyandottes; \$1 per 15. W. H. turkeys, \$1.50 per 9. Borden geese, \$20 each. W. A. Guiness, \$1 per 17. All guaranteed pure-bred. A. F. Hentley, Route 2, Maple Hill, Kans.

WYANDOTTES, White and Silver, and W. H. Turkeys. High grade stock at low prices. Write your wants to R. Boyd Wallace, Stafford, Kans.

ROSE COMB RHODE ISLAND RED Chickens. Thoroughbred Duroc-Jersey pigs. High-grade Red Polled bull calves. Prices reasonable. Address I. W. Poulton, Medora, Kans.

FOR SALE—Exhibition S. C. Black Minorca cockerels, \$2. I guarantee them. Address George Kern, 817 Osage St., Leavenworth, Kans.

MAMMOTH BRONZE TURKEYS and Golden Wyandottes. Young stock for sale. Address, Mrs. A. B. Grant, Emporia, Kans.

MAMMOTH WHITE HOLLAND TURKEYS and White Wyandotte chickens. Henry Harrington, Clearwater, Sedgwick Co., Kans.

STANDARD BRED SINGLE COMB BUFF LEHORNS—Bred by first prize pen Chicago Show 1903 and took six first prizes and first pen at Newton 1904. Eggs, \$2 for 15. S. Perkins, 801 East First Street, Newton, Kans.

S. C. W. Leghorns and Buff Rocks. Winners at State Fairs. Eggs, \$1 per sitting. J. W. Cook, Route 3, Hutchinson, Kans.

TO GIVE AWAY—50 Buff Orpingtons and 50 Buff Leghorns to Shawnee county farmers. Will buy the chicks and eggs. Write me. W. H. Maxwell, 224 Topeka Ave., Topeka, Kans.

BARRED AND WHITE PLYMOUTH ROCK Eggs, \$2 per 15; \$5 per 45. Hawkins and Bradley strains, scoring \$2 to \$4. Mr. & Mrs. Chris Barman, Ottawa, Kans.

WHITE WYANDOTTES—Choice Cockerels Pullets or Hens for sale cheap. S. W. Arts, Larned, Kansas.

SINGLE COMB WHITE LEGHORN cockerels, \$1 each; two or more 50 cents each. Fine white, pure, thoroughbred birds. Also a few Barred Plymouth Rocks, barred to the skin, fine, pure and vigorous; hens, cockerels, cocks and pullets, \$1 each; two or more, 50 cents each. All of our customers are very well pleased. We will make reductions on large lots. Meadow Poultry Farm, Coulterville, Ill.

PURE-BRED S. C. B. Leghorn cockerels, 75 cents each, six for \$4. F. P. Flower, Wakefield, Kans.

LOW PRICES on bone-cutters, clover cutters, brooders, grit mortars and poultry supplies. Free Supply Catalogue. Address manufacturer, Humphrey, Yale Street, Joliet, Ill.

SAVE YOUR CHICKS.

Use the Itumar Mite and Lice Killer, a mite and lice destroyer. Guaranteed to kill mites and lice if properly used. If not satisfied return bottle and label and money will be refunded.

CHAS. E. MOHR, Glendale Park, Hutchinson, Kansas.



Johnson's Laying Strain

R. C. BROWN LEHORNS

Stock for sale. Come early and get the cream. About 100 selected cockerels from \$1 to \$2 each. Reduction on four or more.

H. M. JOHNSON, Formosa, Kans.

YOUNG STOCK.

A fine lot of White Plymouth Rock cockerels and pullets and White Wyandotte cockerels from our prize-winning strains for sale at attractive prices.

W. L. BATES, Topeka, Kansas.

200 Barred Rock Cockerels

For Sale. Bred by the First Prize cockerel Kansas State Show 1904. If you want first-class cockerels for utility or the show room, write me at once. I can please you in both quality and price. I also have 50 yearling hens, (cockerel bred) cheap to make room. Let me make a trial or a pen for you that will give satisfactory results. Satisfaction guaranteed or money refunded.

A. H. MILLER, Bern, Kans.

White Plymouth Rocks EXCLUSIVELY.

Good for Eggs, Good to Eat, and Good to Look at. W. P. Rocks hold the record for egg-laying over every other variety of fowls; eight pullets averaging 289 eggs each in one year. I have bred them exclusively for twelve years and have them scoring 94 to 96%, and as good as can be found anywhere. Eggs only \$2 per 15; \$5 per 45, and I prepay expressage to any express office in the United States. Yards at residence, adjoining Washburn College. Address THOMAS OWEN, Sta. B, Topeka, Kansas

SCOTCH COLLIES.

SCOTCH COLLIES—Scotch Collie pups from registered stock for sale. Emporia Kennels, W. H. Richards, V. S., Emporia, Kans.

SCOTCH COLLIE PUPS FOR SALE—7-months old. Pedigree furnished. Address Chas. W. Greenham, Bucklin, Kans.

The Poultry Yard

CONDUCTED BY THOMAS OWEN.

Poultry Pointers.

With eggs selling at twenty-five cents per dozen, what are you doing toward supplying the demand for them at this price? Are your early pullets laying? If not, why not? They ought to be laying now or they will be idle during most of the cold weather. It costs only five or six cents per dozen to produce eggs. You ought to be reaping some of the benefits of these high prices for eggs.

Yes it is to you, Mr. Farmer, we are talking. You who claim that there is no money in poultry. You who say the chicken business is small business. Do your hogs net you four or five hundred per cent over their cost of production? How much net do your fat cattle make for you, feeding the forty-cent corn?

Instead of feeding the mash feed in the morning, as is customary, try a change by feeding wheat and corn among a litter of cut straw, and give the mash at noon; then in the evening feed whole corn or oats. By such feeding you ought to get plenty of eggs.

If you moisten a pan of cornmeal, you will notice that it absorbs quite a large quantity of water. This water the fowl must take, whether it wishes it or not, in order that it may eat the food desired. Naturally, the fowls drink but little water, and but a small quantity at a time. When the crop is packed with soft food, the digestion is slow and decomposition begins, hastened by the heat of the fowl. When the fowl consumes dry food and must seek it, the first is digested before the last enters the crop; hence, when it drinks there is but a small portion of the food moistened and the crop is never full. To give soft food occasionally is all right but it should be given in limited quantities, and given as dry as it can be mixed. We believe there is too much sloppy food given to fowls. Give more grain and make them scratch for it and be sure to provide pure, wholesome water for them at all times.

Much of the profit which might be derived from small flocks of hens is lost by keeping the old hens and the pullets together in the fall and winter. It seems like too much work for a small object to separate them when they only amount to a decent sized flock together, but if the hens are fed as the pullets should be fed, they will become too fat; and if they are all fed as the old hens should be, the pullets will not develop in season to lay early. If you keep but few hens, and have not room for two pens and yards, it is better to raise a supply of pullets and dispose of the old hens before winter.

Vigorous, healthy fowls may almost always be detected by the rich, red color of the comb, which is a sure indication of health. The comb of a diseased fowl always loses in color in proportion as the disease approaches its worst stages, in some instances turning black. We would advise those who suspect disease among their fowls to give the matter of the color of the comb a close study. As an index, it is to the poultry-raiser, what the pulse of the human patient is to the physician. Upon the first sign of disease becoming visible, safe, reliable preventives should be used. Among the best known means is a good tonic and some good egg-food. These things, with proper care and food, will so strengthen the birds that disease will not get much of a start among them.

Making Hens Lay.

It has been demonstrated beyond a question of a doubt that hens can be made to lay from two to three times the usual number of eggs. Experiments have been made on fowls for a number of years and a food developed that is absolutely certain to make hens lay. It is no wonder worker and won't do this in a day or even in a week, but any flock of hens can be put in condition in from two to four weeks; the time depending on the care they are receiving, feed, age, and whether they

\$7.00 Freight Prepaid, **120 EGG**
Buys the Best Incubator Ever Made.
\$4.50 Buys the Best 100-Chick Brooder.
Both Incubator and Brooder, if ordered together, cost but \$11.00. Double cases all over; best copper tank; hot water; self regulating; satisfaction guaranteed. Our book, "Hatching Facts," tells all about it. Mailed free. Write for it.
Belle City Incubator Company, Box 18, Racine, Wisconsin.

Hapgood Duplex Feed Mills
Friction and Roller Bearings, Single Sweep, Triple and Quadruple Geared, Eight Sizes. Power Mills Two Sizes. Size for size, greatest capacity, easiest operated and changes made with less work than any other line on earth. Send for catalogue.
Price \$17.00 2 SETS OF GRINDERS
Hapgood Plow Co., 913 Front St. Alton, Ill.
The only factory in our line selling direct to the consumer

are just beginning to molt, at present molting, or through molting. It has been proven time and time again that within a month's time a flock of hens can be put in paying condition and show a handsome profit over the cost. In fact, the Security Stock Food Co. absolutely guarantees to make hens lay and their product is sold on a broad and liberal guarantee stating that if you are not absolutely satisfied, no matter from what cause, your money will be refunded. They take all the risk and it is well worth a trial under these conditions.

Sure Hatch, Nebraska.

That's what Clay Center should be called!

Drop a letter in the mail-box anywhere, addressed just "Sure Hatch, Nebraska," and it will go to the Sure Hatch Incubator Company, at Clay Center, as fast as steam and steel can carry it.

Every railway mail clerk and every postoffice official through whose hands the letter passes will know at once that its destination is Clay Center, Neb.

For the Sure Hatch Incubator Co. practically is Clay Center.

There is no other big industry located there.

Nearly everybody in town works for the Sure Hatch Incubator Co. Its pay-roll keeps Clay Center going—keeps its population happy and prosperous. And Clay Center is proud of its famous industry, proud of the splendid reputation of the "Sure Hatch," proud of the men whose genius and industry have made this little town known and honored all over the civilized world.

You can easily find out for yourself that what we say is true.

If you are interested in Incubators and Brooders, just drop a line to "Sure Hatch, Nebraska," and say you would like to see a copy of the new Sure Hatch Catalogue.

You'll get it by return mail, without a doubt.

And when it comes, you'll find it the most interesting Catalogue you ever read.

There's no other Incubator Catalogue like it—none so chock full of interesting and valuable information about Incubators and Brooders, about the hatching and raising of chicks for pleasure and profit.

Try it to-day—send a postal addressed "Sure Hatch, Nebraska,"—say you want the Big Catalogue—and see what happens!

GEO. ERTEL CO., Quincy, Ill. 789
Please send me the 1906 Victor Book FREE.

Name.....
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Specialty of bred sows and gilts. Two of the best boars in the country at the head of herd. Write for prices or call. Phone at farm.

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Well-bred Duroc-Jersey Swine.

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I have for sale a number of select and growthy males sired by Kansas King, he by Can't Be Beat; dam, Ruby Roy by Keene Gold Coin, high class top-notchers bred by K. C. Watts. Satisfaction guaranteed or no sale.
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A choice lot of young boars and gilts—the tops of my herd, all others having been castrated. My breeding stock is the get of the great snow and prize-winning herds of the country. Hence these young boars and gilts are bred right. They have also been fed right, therefore are sure to please the most exacting. Hogs ready for immediate delivery. Correspondence invited. Address
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High Class Duroc-Jersey Swine.

100 head of very choice stock; either sex. For sale at reasonable prices. Nothing better. Write us at R. F. D. No. 3, Delphos, Kans.

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I have for sale, 35 head of the best boars I ever raised of March and April farrow. Sired by Chief Perfection No. 20609 by Van's Perfection No. 11571. Improved 3rd No. 28361 by Improver 2nd No. 13365, Dandy Orton No. 33879 by Orion No. 5233 and Sir Bunceton 22311 by Ohio King No. 12179. All out of matured sows of up-to-date breeding. Write me your wants. Visitors always welcome. Satisfaction guaranteed. J. F. Chandler, Frankfort, Kan.

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Seventy-five head of large type Duroc boars for sale. Dams are mostly by my 1,000-pound Kansas Wonder, and sired by World's Fair prize hog, "Big Chief Ohio," and Ripley, a son of Grand Champion at St. Louis. Public sale of 60 sows and boars, October 25, 1905—the pick of 250 head.

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Pure-bred Poland-Chinas from leading strains. Visitors welcome and correspondence solicited. Satisfaction guaranteed. C. P. BROWN, R. 2 Whiting, Kans.

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Best breeding and individuality; B. P. Rock Chickens, best strains, large size. A few choice boars, ready for service, and pigs both sexes, for sale at reasonable prices. Chockers \$1.00 each.

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Four first, one second won at Topeka, 1905; six firsts, five seconds, and three sweepstakes at Hutchinson, 1905. These winners and others for sale. All fashionably bred.
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Do. Ideal Sunshine Chief, On and On and U. S. Model in service. Will sell 6 gilts bred to D. Ideal Sunshine and 4 boars in Arkansas City, sale November 18, 1905.

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Twenty serviceable boars at special prices for next 30 days, sired by Black Perfection 37182, Silk Perfection 32804, Perfection Now 32580, and Ideal Perfection. They are lengthy and good-boned pigs, with plenty of finish. Write me description of what you want and I will guarantee satisfaction.
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Forty number one Empire Chief spring boars ready for service and 40 number one Empire Chief sows and gilts open, or bred to Roller Trust. All priced to move them at once. Describe what you want.
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Breeder of up-to-date Poland-Chinas. A choice lot of boars of serviceable age for sale at prices which should make them go at once. Write me before placing your order.

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Choice young stock of both sexes for sale at very low prices.
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Shorthorn cattle, Oxford sheep and Peafowls. I won 18 prizes on 14 head of Chester-Whites at World's Fair, 1904. Four herd boars in use.
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Imported Blood

30 extra choice Boars, 100 to 150 pounds. 40 extra choice Gilts, 100 to 150 pounds. Fancy heads, strong bone and all-around good ones. Bargains at \$15 to \$25 to close quick.
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A few bulls, 6 to 24 months old, ready for buyers. Two Percheron stallions 1 and 2 years old.
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Best of breeding. Write or come and see
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Of the choicest strains and good individuals. Young animals, either sex, for sale. Also breeders of Percheron Horses and Plymouth Rock Chickens.
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Offer some fine blooky bulls about one year old.
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Herd headed by Baron Goldsmith 224633 by The Baron 121327; females bred to him and choice young bulls for sale.

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Three Choice Shorthorn Bulls.

All dark red, 12 to 30 months old good breeding, good individuals. Also some cows and heifers bred. Twenty-five spring boars, good growthy fellows, out of mature sows and No. 1 boars. For description and prices, call on or write:

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100 Scotch and Scotch Topped Females, 8 Scotch Topped Bulls in special offer, Pavonias Prince 207516 and Happy Knight by Gallant Knight 124468 in service.

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Scotch bulls in service. Cows carry three to five Scotch crosses on standard Shorthorn foundations. Ten Bulls 12 to 18 Months old also a carload of extra good 2- and 3-year-old heifers for sale. All red, and all in good condition. Come and see our cattle.

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Young bulls from heavy milking dams, sired by the Scotch Topped Giltspur's Knight 171561 whose heifers are excellent milkers. Write us.

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Service Bulls—Herefords: Columbus 17th 91864, Columbus Budybody 141836, Jack Hayes 2d 119761. Shorthorns: Orange Dudding 149469. Polled Shorthorns: Scotch Emperor 183646, Crowder 204816.

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Headed by Prince Lucifer 188685

A pure Scotch bull.

Stock for sale at all times.

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Breeder of Pure-bred Shorthorn Cattle.

Choice bull calves and 2-year-old heifers bred at \$50 each.

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3 Fine Young Bulls—13 to 16 months old, for sale, at very reasonable prices.

Sired by such bulls as Lord Mayor, Mayor Valentine, and Proud Knight.

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Individual merit and choicest breeding. Dale Duplicate 2d at head of herd. Correspondence solicited. A. JOHNSON, Clearwater, Kans.

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Herd bulls, Protocol 2d 91715—Beau Beauty 192235, and Printer 66684, the best living son of the great Beau Brummel. Young bulls, cows and heifers for sale.

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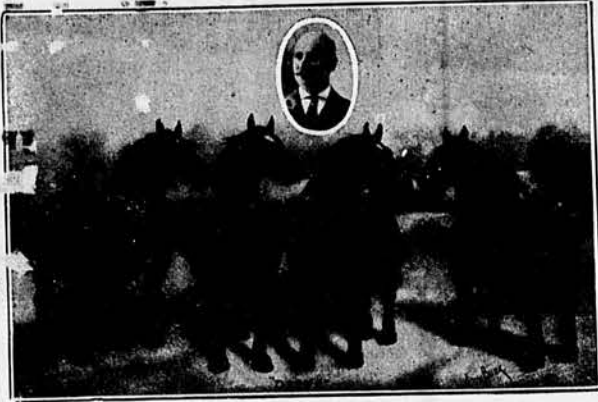
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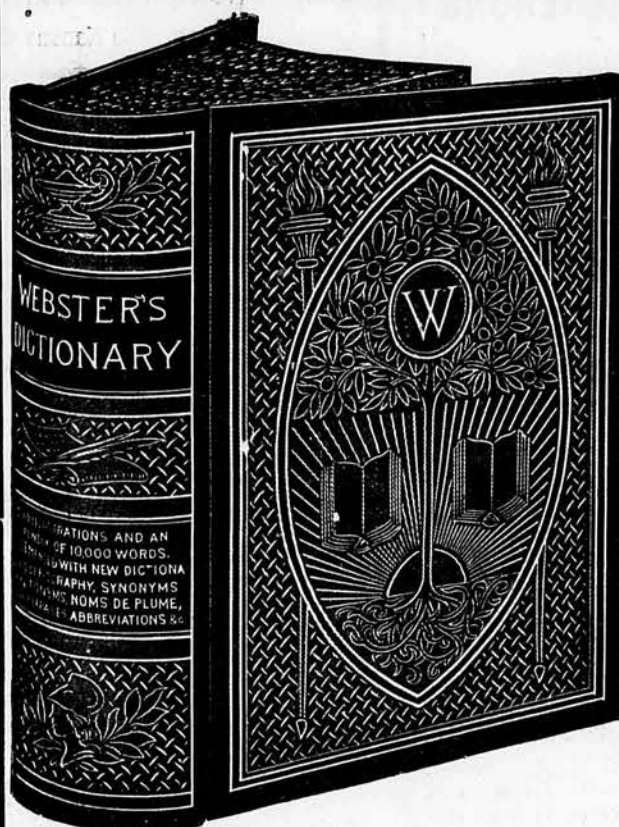
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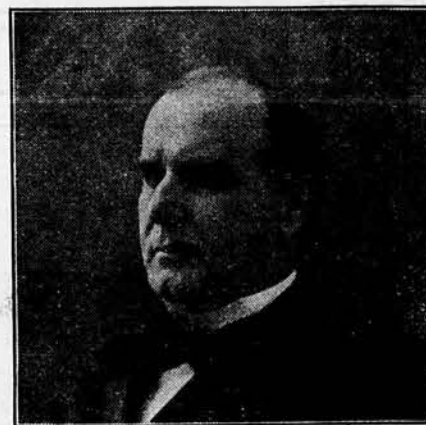
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