

KANSAS FARMER



Volume XLIII. Number 52

TOPEKA, KANSAS, DECEMBER 28, 1905

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OIL FOR FUEL.

EDITOR KANSAS FARMER:—What has become of the "crude oil burner" that we were all so soon to be using on any and all stoves, and as you stated some months ago, was being manufactured by Currie Bros. of Topeka? Such a practical device would save much expense to the consumer of soft coal in these parts, which latter costs at the stations \$6.75 to \$7.25 per ton, and is full of slack and slate in the bargain. Hoping for an early reply in the columns of the good old FARMER, I am, Russell County. C. H. KELLOG.

On receipt of this letter the editor proceeded to the Midland Foundry, at which the experimental work with the oil burner has been carried on at

range and a heating-stove were in use at the home of Mr. Sears, one of the proprietors of the foundry, the editor proceeded to said residence. Mrs. Sears was cooking the dinner for her family, using oil for fuel. She said she would not go back to coal on any account. She certainly had a nice fire in the range. To show what it would do she increased the supply of oil a little. The fire increased instantly. Mrs. Sears later informed her husband that in showing off the oil she had burned the rabbit. She stated to the writer that she could make the stove red-hot clear around the oven.

In the sitting-room stood what appeared to be a 16-inch, round-oak stove. A neatly curved pipe coming from un-

The oil now used is the Uncle Sam fuel oil which costs in Topeka \$1.50 per barrel. For prices at which it can be delivered elsewhere in Kansas, write to the Uncle Sam Oil Co., Independence, Kans. Mr. Sears says it is cheaper fuel than coal at \$4 per ton.

The retail price of the burner, oil-can and all fittings for cooking-range is \$8.50. The retail of the heating stove with burner, etc., complete is \$16. In neither case is the pipe for bringing the oil from the can to the burner included. This is 3-8 wrought-iron pipe which the stove-dealer will supply in desired lengths at a few cents per foot.

A BURNER FOR CRUDE OIL.

EDITOR KANSAS FARMER.—Some time

to make a satisfactory burner for crude oil for domestic use. While burners using and producing steam have been successful, the writer knows of no burner adapted to domestic use which does not sooner or later become clogged with asphaltum when crude oil is the fuel. Possibly the Oklahoma and Indian Territory oils, which contain far less asphaltum than do most Kansas oils, may be used in the crude state with satisfaction.

The value of a burner that would use average crude oil satisfactory would be great. What one might make out of a patent on such an appliance is not so sure. Some salesmen can sell anything. In selling a successful crude-oil burner they would be rendering a valuable service. In general, in the hands of the average person of limited experience, a patent is a loser. The returns depend upon the skill and energy of the pusher.

THE VOTING MACHINE.

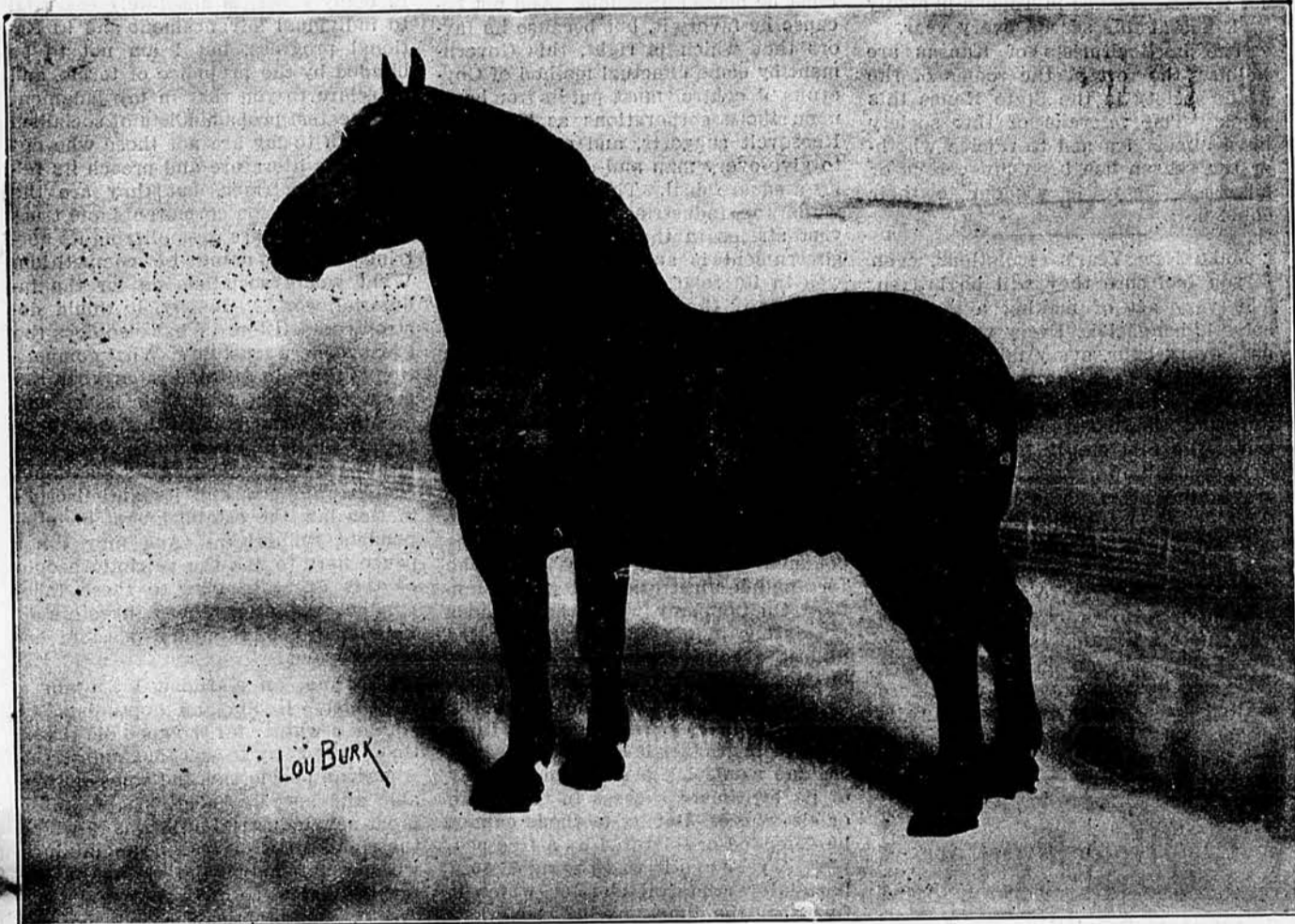
A voting machine which appears to meet all possible requirements has been patented by a Kansas man, J. P. Paynter, of Topeka. With the machine now on exhibition, straight tickets may easily be voted by 1,500 persons in a day. The average time of voting the "split" ticket is thirty seconds. The voter's selection of candidates can be seen by none but himself, yet he can not cheat the machine. His vote is first numbered and recorded. He may then vote any straight ticket of the entire number before him. If he votes a straight ticket he can vote nothing else. The machine makes it impossible. He may vote once for each of as many candidates on a ticket as he shall choose, or he may scatter his vote to the fullest extent, but he can vote only once for one person, and only once for one office. The machine counts and records the number of votes for each candidate as cast, but the record can not be seen until the machine is unlocked by the proper election official. Provision is made for keeping separate the record of votes by women, Constitutional amendments or other propositions may be voted for or against.

There is no pressing demand for voting machines in country precincts, but in cities they are needed for speedy voting, for protection against fraud and for saving the expense of counting.

END OF VOLUME XLIII.

This number of the KANSAS FARMER completes the forty-third volume. Those who founded the paper have joined the great majority. Those who are now in the management have been in the harness from fourteen to twenty-six years. The KANSAS FARMER has witnessed most of the good and bad fortune that has befallen the State.

The KANSAS FARMER seeks first of all to present such information as will be helpful to the man on the farm, especially the man on a farm in Kansas or contiguous territory. Many letters of hearty commendation make



Iams' Gigolo (53894).

Black Percheron Stallion three years old; weight, 2,200 lbs. Prize winner at Iowa and Nebraska State Fairs, 1905. A wide-as-a-wagon top-notcher. One of Iams' 151 "Peaches and Cream" stallions that must be sold at \$1,000 and \$1,500, by Frank Iams, St. Paul, Neb.

Topeka. Here it was learned that the burner had undergone considerable modification. The first burners were arranged to use wood ashes as a wick. This has been discontinued and the oil and the air are the only substances that enter the burner. The burner for the cooking range has been arranged to take the place of the front pair of lids and center between them. The top plate of the burner lies flat on top of the range and fits almost any size. This top plate is provided with lids and is as useful for the most purposes as the original lids. The oil enters through a small pipe.

It was learned that both a cooking

range and a heating-stove were in use at the home of Mr. Sears, one of the proprietors of the foundry, the editor proceeded to said residence. Mrs. Sears was cooking the dinner for her family, using oil for fuel. She said she would not go back to coal on any account. She certainly had a nice fire in the range. To show what it would do she increased the supply of oil a little. The fire increased instantly. Mrs. Sears later informed her husband that in showing off the oil she had burned the rabbit. She stated to the writer that she could make the stove red-hot clear around the oven.

The hope at first was to construct a burner that would use crude oil satisfactorily. The crude-oil burns well but leaves a deposit of asphaltum in the burner. This is sometimes difficult to remove. If allowed to accumulate it presently fills the burner.

ago you mentioned in your paper a patent on a crude-oil burner. If it is patented, who patented it, and what is its success? If not a complete success, what are the defects? I am anxious to know just how it is, as a friend of mine has made one which is a perfect success, odorless, and smokeless. Do you think there is anything in it for him if he should get a patent on it? J. W. JENNING.

Caddo County, Okla.

Quite a number of crude-oil burners have been patented. To get the names of the patentees would require investigation at the Patent Office.

There have been persistent efforts

KANSAS FARMER.

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Display advertising, 20 cents per line, agate (fourteen lines to the inch). Continuous orders, run of the paper, \$1.82 per inch per week.
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Special rates for breeders of pure-bred stock.
Special Want Column advertisements, 10 cents per line of seven words per week. Cash with the order.
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Change of copy for regular advertisement should reach this office not later than Saturday previous to publication.

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It certain that a fair degree of success has been attained. Practical farmers who have read the KANSAS FARMER for many years are its warmest friends. The subscription list of the KANSAS FARMER is now several times larger than it was fourteen ago. The record of the year just closing shows larger subscription receipts than any other known to the present management.

Modern farming is more than plowing, planting, and harvesting. The farmer who expects to enjoy his full share of present-day prosperity must keep up with the progress of his profession. This progress is becoming more and more dependent upon the application of exact knowledge to the pursuit of the farmers. This exact knowledge, or science, is increasing, through the work of the practical farmer, the records of which are written down and brought before the readers of the best agricultural papers, and through the work of the trained experimenters of the experiment stations. These last are evolving answers to questions whose investigation is expensive and is almost certain to cost more than is realized from the produce of the experimental work. But these answers are valuable in pointing the way to more profitable farming. The KANSAS FARMER has not hesitated to present this kind of agricultural science in large measure. Its cordial reception by the great majority of the readers has been at once an evidence of their intelligence and progressiveness and has contributed directly to their prosperity.

With perhaps pardonable pride we close the forty-third volume of the KANSAS FARMER with the promise to do all in our power to make the forty-fourth even more satisfactory. And the KANSAS FARMER wishes its readers all a happy new year.

Kansas prairie hay now sells in Chicago with the choicest timothy at \$13 a ton.

The Breeders' Gazette advises against selling the next wool crop for future delivery.

Every farmers' organization, every farmers' meeting ought to study and discuss the dual-tariff proposition which, if adopted, will enable the President to protect farmers' interests in foreign markets.

The Cotton Growers' Association is engineering a movement to withhold from market 200,000 bales of cotton. This is expected to produce a rise in the price of cotton. A considerable reduction in the acreage to be planted is proposed for next year.

There will be a meeting of the Shawnee County Fruit Growers' Association, at Room 14, Office Block, Saturday, December 30, at 2 p. m. sharp. All fruit growers are urged to be present as matters of interest to every grower will be discussed. By order of N. H. Broesius, secretary.

Louisville, Kentucky, is arranging for a great home coming for Kentuckians and has fixed the dates at June 13, 14, 15, 16 and 17, 1906. If you are a native of Kentucky, write to R. E. Hughes, Secretary Commercial Club, Louisville, Ky., for full information and you are sure of an invitation.

The State Teachers' Association has possession of a considerable proportion of the Capital City this week. Its members crowd the State House, the hotels and the street cars. They are a jolly and at the same time an earnest lot whose presence in Topeka is gladly welcome at this season every year.

The horticulturists of Kansas are holding the fort at the rooms of the State society in the State House this week. The veterans of this society have almost learned to rejoice whether the season has been prosperous or adverse. There is wisdom in their counsel.

Make New Year's resolutions, even if you feel sure they will be broken. The very act of making a good resolve is beneficial. Every week, every day, every hour, every minute a good resolution is kept, is an advantage for the remainder of one's life. It pays to make the most possible of one's self. The first step in all progress is the purpose to progress. "As he thinketh in his heart so is he," says the Book. Therefore, think right thoughts, entertain right purposes; form right resolutions and act upon them. It is possible in this way to make the year 1906 more prosperous, in a material way, more enjoyable in a social way, more active in an intellectual way, more excellent in a moral way, more exalted in a religious way than its predecessors have been. Make New Year's resolutions.

Miscellany

Government Regulation or Government Ownership.

Excerpt from address by Governor E. W. Hoch, of Kansas, at Ottawa, Dec. 12, 1905.

"Looming into vast proportions is the industrial problem. Within the last half century our population has quadrupled. The industrial system has changed from a private to a corporate one. Fifty years ago nearly all the industries of the country were conducted by private individuals with local capital. The shoes were made by the local shoemakers; the hats by the local hatters; the vehicles by the local mechanics; the clothing by the local seamstresses. In short, nearly everything that was used by the people was made by local labor with local capital. But times have changed. Now all these articles of daily use are manufactured in great industrial centers by great corporations. These aggregations of

capital and combinations of talent are necessary to our new and modern civilization. We could not if we would, and would not if we could, go back to the old order of things. But along with these vast changes in industrial methods have come great abuses. All human experience proves that the cupidity of man must be curbed by law for the public good. Given free rein the many have always been and always will be the prey of the few. How to restrain the selfishness which naturally characterizes these great corporations in the interest of the people without jeopardizing the good and beneficent law of competition essential to all human progress and without paralyzing individual talent is the great problem which confronts us.

Take the great railroad corporations for instance. They have brought us great blessings; they have made travel a luxury; they have made remote communities neighbors; they have made our high-class civilization possible. But the cupidity of some of the managers has concocted and consummated some infamous outrages upon private individuals and upon whole communities. They have given secret rebates to many men, which has resulted in bankruptcy to others; they have ruined towns and cities with their discriminations; they have perpetrated those outrages until patience upon the part of a free and independent people ceased to be a virtue and an unwise clamor for government ownership has been made immensely popular.

My fellow Republicans, yes, my fellow citizens of all parties, for McKinley was right when he said in a large American sense, "We have more in concord than in conflict," these wrongs must be righted and these outrages must be made impossible. And not because he favors it, but because he favors that which is right, this Government by some effectual method of Government control must put its iron hand upon those corporations as Theodore Roosevelt suggests, and compel them to give every man and every community a square deal. The trouble is that while the industrial world has made vast strides in the last half century, government is substantially where it was in its relation to commerce fifty years ago. Government must move up and meet these new conditions for the protection of the people. Fifty years ago no one would have seriously thought of Government regulation of passenger traffic on the old-fashioned stage coach or of interference with freight rates of the old-time caravan. But the people then were not at the mercy of these means of transportation as they now are at the mercy of the common carriers of to-day. Or, take for another illustration the great Standard Oil Company which, by methods absolutely indefensible, has acquired almost absolute monopoly of the oil business of this country, and, indeed, of the world. No one objects to the prosperity of the Standard Oil Company or begrudges it legitimate profits. No one would lay a straw in the way of its legitimate success in this State or elsewhere. But its methods cannot be defended or tolerated by a free people. A year ago it was paying \$1.30 a barrel for crude oil and for which it furnished the almost exclusive market. Prompted by this profitable price thousands of people invested their hard earnings in oil leases and oil wells. Does any one believe that this commercial cormorant was losing money when it was paying that price? Having thus developed this great field at the expense of others, this greedy corporation reduced the price two-thirds and brought bankruptcy to countless individuals and to many local companies.

At this time the Kansas oil field is yielding sixty thousand barrels a day, an insignificant part of its capacity, and for this oil the Standard Oil Company, which sets the price, is paying less than one-third what it paid a year ago. I believe it could pay \$1 per barrel for this oil more than it is paying, and still make a large profit. In other words, it is robbing this people of \$60,000 a day, or \$22,000,000 a year. We look with horror upon a railroad robber who holds up a train and flitches

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from the passengers a few paltry dollars, but sit supinely down while we are being robbed of enough money every day by this one corporation to build an hundred homes for the homeless, or to rear a great educational institution, or to endow a college, or in one year to pay all the expenses of the State for five years.

An effort to right this great wrong by the establishment of a State refinery by the last Legislature was characterized by superficial thinkers as a socialistic movement. I have been for years a student of ancient and modern, of philosophical and historical socialism, and I have come out of this study profoundly convinced that socialism is a soporific which would put the industrial world to sleep; that it would paralyze personal talents and dwarf the human race, and that the competitive system, working hardships as it does in many cases, is absolutely essential to individual advancement and to National progress, but I am not to be blinded by the prejudice of terms, and I declare to you that in my judgment the greatest propagandists of socialism on earth to-day are not those who circulate its literature and preach its fallacious doctrines, but they are the great corporation cormorants and trust magnates who are exemplifying its doctrines in the name of competition. What would socialism do for the industrial world? Briefly, it would destroy competition. What else does the great modern trust do? What competition is there in railroad rates when the great companies pool their issues and earnings? What competition was there in this State in oils until the last Legislature made possible, by its maximum freight rate law and its anti-discrimination law the establishment of independent refineries. And may I not pause here to ask the patriotic people of this State to give to these independent refineries, these investors of individual capital, every possible encouragement?

I am not an alarmist, I am not a pessimist, I am an optimist. I am not a whiner for the good old times, times, but I say to you that unless the American people can find some reasonable and speedy solution of these great new industrial problems in which the rights of many can be maintained without infringing the rights of the few, a tidal wave of Government ownership, of practical socialism will sweep over this country one of these days and sweep us all off of our feet. It will be a calamity if it comes because an ideal condition is where the individual has the largest possible place for his talents, and it will be a sad day for civilization when the individual is merged and swallowed up in Government, and when the Indian's ideal of Government is realized—the ideal of a great father dispensing beads and beans and succotash to an incompetent people. But I have faith in the intelligence and courage and patriotism of the American people. They will be equal to this emergency as they have been equal to all the emergencies of the past. The honest, conservative and reasonable corporation people, and the wise, far-seeing, incorruptible statesmen of the land will ultimately get together and solve these problems in the mutual interest of all and each alike.

Agriculture

The Use of the Disk.

IRWIN BROBST, BEFORE OAK GRANGE FARMERS' INSTITUTE.

The question of the day with the farmers is: Shall I use the disk implement or not?

You perhaps all remember when the cultivation of corn was first begun with the disk, and the condemnation it received at the hands of those not using it, and by some that did use it.

At present the disk is converting some of the most skeptical to its use, and the time will soon be at hand, or now is, when we farmers will all say with one accord: "Give me the disk." This may seem to be a broad assertion, but I think time will verify its truth.

I do not, by what I have said, advocate the use of the disk exclusively; but in connection with other tools: for instance, in the cultivation of corn, my plan is as follows: I begin by double-disking with a four-horse disk harrow, heavily weighted; this leaves the ground in fine shape and the corn-stalks in such condition that they never bother in the future cultivation of the corn.

In double-disking it is a good plan to let the weeds start some after the first disk, before giving it the second. After the second (which should be diagonal from the first), let the weeds start up again, after which list the ground and plant.

When the corn is 3 or 4 inches high, then is the time to get in your good work with the disk-cultivator; and although I at one time condemned its use as a weed-killer, I have since changed my mind and will say that when properly handled, there is no other tool that I ever used that will begin to compare with it in the destruction of weeds. I think I hear some one say, "He's off a little bit." Well, maybe he is, but wait and see.

There are a great many disks being used by the farmers of to-day and I'll venture to say that the half of them do not know how to use them as they should. The fault is not so much in the cultivator as it is in the one who cultivates.

We have to use sound judgment in the handling of tools of any kind and the disk is not the implement to be knocked around in any old way with the expectation of its doing good work. But, on the other hand, if it is properly adjusted and in the hands of a competent man, it just simply works itself.

In going over corn the first time throw the outer disk well forward, so that you cover all weeds that you cut from the corn; next have the inside disks about one inch apart when out of the ground. This makes them touch each other at the top when at work.

I can clean out everything in the bottom of a listed furrow except a strip about 4 or 6 inches wide in the center of the furrow where the corn is.

Last year I had 18 rows of corn that I concluded wasn't worth working, as the crab-grass overlapped the corn in the furrows. But one hot, dry day I thought I would try cultivating that corn as an experiment. I went to work, set my disk cultivator and started in. Actually you could not see the rows two rods ahead of the team; but by looking behind you could see the rows half way across the field. It actually seemed that those disks took the grass away from the corn better than could have been done with the hands; in the wind-up this corn was the cleanest in the field.

After the first disk, let it lay a few days, then hitch three horses to a 10-foot harrow, get on and ride. By doing this you take 3 ridges at a time and do better work. If you would rather walk for fear of pulling the horses too hard, you can put a log of about your own weight on the harrow and go ahead, the harrow will do the rest.

I find that the use of the disk is not confined to the cultivation of corn

alone. We have the disk-plow, disk-drill, the two-row sled disk for corn, and some others; but whatever its use, it seems to give general satisfaction.

I heard a gentleman say this fall that he would never use a stirring plow again if he could possibly get a disk.

The disk-drill seems to be the drill for the present farmer, and I think for the future farmer, as well. It seems to adapt itself to nearly all conditions of the soil better than any other. The only drawback is its cost, which is about one-third more than other makes.

Feeding Questions.

EDITOR KANSAS FARMER:—We are feeding a herd of milch cows exclusively on alfalfa hay. In an adjoining yard we have some that we are feeding on corn-fodder. Whenever the corn-fodder cows are being fed the alfalfa-fed cows show a great anxiety to get at the fodder, and when they get a chance to get into the yard they eat up the corn-stalks the other cows leave. Is not alfalfa, fed exclusively, too hard on their kidneys? Would it not be better to feed some other feed in connection with it? Would not the butter results be better?

W. F. S.

Abilene, Kan.

Answer:—I have never heard of any serious results from giving milch cows all the alfalfa hay they will consume. It will do no harm, however, to furnish your cows with some corn-fodder or other roughage if they desire it. I am inclined to think that you are not supplying them with all the feed that they need. With very heavy milkers you will find it necessary to feed some grain to get the best results even when alfalfa hay is fed for roughage. I would suggest that you feed a grain ration of two-thirds corn and one-third bran to your heaviest milkers, and note whether they give you an increased flow of milk. The per cent of butter-fat in the milk of your cows will be varied by the kind of feed given. The only way to increase the butter product is to increase the quantity of milk given.

G. C. WHEELER.

High-Class Farming.

EDITOR KANSAS FARMER:—Why do not more of the farmers practice the methods as set forth and explained by H. W. Campbell on page 1173 of KANSAS FARMER?

They are all feasible, practical, and reasonable. Yet I find in talking with farmers of the plains in both Kansas and Nebraska that the great majority of them think it not worth while, that haphazard methods will give as good results in averaging any given number of years. Where the rainfall is adequate for the needs of the crops grown, much of the labor expended in his methods would be superfluous, and enhance the cost of production; but many times in the more humid sections, there is a lack of moisture, and a knowledge of the principles of storing and conserving the rainfall for the use of plants, would give a wonderful increase if applied. Here in the East there is sufficient moisture in the soil in the spring to supply all the needs of nearly all plants, without a drop of rain through the growing season; but if permitted to run off and evaporate until "the clouds cleave fast together," then the most of us do not realize that we alone are responsible for this condition because "so foolish am I and ignorant."

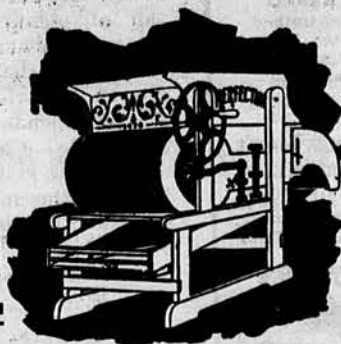
A friend of mine in Michigan has a grain-drill, made and patented in 1860, that is constructed very similar to the sub-surface packer mentioned by Mr. Campbell. I told him of the similarity of the two implements and he speaks in the highest terms of it, and says the grain comes up much quicker when sown with it than it does when sown with the more modern drills of any style. Why are these principles so essential to the highest development of agriculture allowed to lapse, for a time at least, into obscurity? I can assign no reason un-

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Objectionable advertisements or orders from unreliable advertisers, when such is known to be the case, will not be accepted at any price.
To insure prompt publication of an advertisement, send cash with the order; however, monthly or quarterly payments may be arranged by parties who are well known to the publishers, or when acceptable references are given.
All new advertising orders intended for the current week should reach this office not later than Monday.

Change of copy for regular advertisement should reach this office not later than Saturday previous to publication.
Every advertiser will receive a copy of the paper free, during the publication of the advertisement.

Address all communications to

KANSAS FARMER CO.,

116 West Sixth Ave., - Topeka, Kans.



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It certain that a fair degree of success has been attained. Practical farmers who have read the KANSAS FARMER for many years are its warmest friends. The subscription list of the KANSAS FARMER is now several times larger than it was fourteen ago. The record of the year just closing shows larger subscription receipts than any other known to the present management.

Modern farming is more than plowing, planting, and harvesting. The farmer who expects to enjoy his full share of present-day prosperity must keep up with the progress of his profession. This progress is becoming more and more dependent upon the application of exact knowledge to the pursuit of the farmers. This exact knowledge, or science, is increasing, through the work of the practical farmer, the records of which are written down and brought before the readers of the best agricultural papers, and through the work of the trained experimenters of the experiment stations. These last are evolving answers to questions whose investigation is expensive and is almost certain to cost more than is realized from the produce of the experimental work. But these answers are valuable in pointing the way to more profitable farming. The KANSAS FARMER has not hesitated to present this kind of agricultural science in large measure. Its cordial reception by the great majority of the readers has been at once an evidence of their intelligence and progressiveness and has contributed directly to their prosperity.

With perhaps pardonable pride we close the forty-third volume of the KANSAS FARMER with the promise to do all in our power to make the forty-fourth even more satisfactory. And the KANSAS FARMER wishes its readers all a happy new year.

Kansas prairie hay now sells in Chicago with the choicest timothy at \$13 a ton.

The Breeders' Gazette advises against selling the next wool crop for future delivery.

Every farmers' organization, every farmers' meeting ought to study and discuss the dual-tariff proposition which, if adopted, will enable the President to protect farmers' interests in foreign markets.

The Cotton Growers' Association is engineering a movement to withhold from market 200,000 bales of cotton. This is expected to produce a rise in the price of cotton. A considerable reduction in the acreage to be planted is proposed for next year.

There will be a meeting of the Shawnee County Fruit Growers' Association, at Room 14, Office Block, Saturday, December 30, at 2 p. m. sharp. All fruit growers are urged to be present as matters of interest to every grower will be discussed. By order of N. H. Broesius, secretary.

Louisville, Kentucky, is arranging for a great home coming for Kentuckians and has fixed the dates at June 13, 14, 15, 16 and 17, 1906. If you are a native of Kentucky, write to R. E. Hughes, Secretary Commercial Club, Louisville, Ky., for full information and you are sure of an invitation.

The State Teachers' Association has possession of a considerable proportion of the Capital City this week. Its members crowd the State House, the hotels and the street cars. They are a jolly and at the same time an earnest lot whose presence in Topeka is gladly welcome at this season every year.

The horticulturists of Kansas are holding the fort at the rooms of the State society in the State House this week. The veterans of this society have almost learned to rejoice whether the season has been prosperous or adverse. There is wisdom in their counsel.

Make New Year's resolutions, even if you feel sure they will be broken. The very act of making a good resolve is beneficial. Every week, every day, every hour, every minute a good resolution is kept, is an advantage for the remainder of one's life. It pays to make the most possible of one's self. The first step in all progress is the purpose to progress. "As he thinketh in his heart so is he," says the Book. Therefore, think right thoughts, entertain right purposes; form right resolutions and act upon them. It is possible in this way to make the year 1906 more prosperous, in a material way, more enjoyable in a social way, more active in an intellectual way, more excellent in a moral way, more exalted in a religious way than its predecessors have been. Make New Year's resolutions.

Miscellany

Government Regulation or Government Ownership.

Excerpt from address by Governor E. W. Hoch, of Kansas, at Ottawa, Dec. 12, 1905.

"Looming into vast proportions is the industrial problem. Within the last half century our population has quadrupled. The industrial system has changed from a private to a corporate one. Fifty years ago nearly all the industries of the country were conducted by private individuals with local capital. The shoes were made by the local shoemakers; the hats by the local hatters; the vehicles by the local mechanics; the clothing by the local seamstresses. In short, nearly everything that was used by the people was made by local labor with local capital. But times have changed. Now all these articles of daily use are manufactured in great industrial centers by great corporations. These aggregations of

capital and combinations of talent are necessary to our new and modern civilization. We could not if we would, and would not if we could, go back to the old order of things. But along with these vast changes in industrial methods have come great abuses. All human experience proves that the cupidity of man must be curbed by law for the public good. Given free rein the many have always been and always will be the prey of the few. How to restrain the selfishness which naturally characterizes these great corporations in the interest of the people without jeopardizing the good and beneficent law of competition essential to all human progress and without paralyzing individual talent is the great problem which confronts us.

Take the great railroad corporations for instance. They have brought us great blessings; they have made travel a luxury; they have made remote communities neighbors; they have made our high-class civilization possible. But the cupidity of some of the managers has concocted and consummated some infamous outrages upon private individuals and upon whole communities. They have given secret rebates to many men, which has resulted in bankruptcy to others; they have ruined towns and cities with their discriminations; they have perpetrated those outrages until patience upon the part of a free and independent people ceased to be a virtue and an unwise clamor for government ownership has been made immensely popular.

My fellow Republicans, yes, my fellow citizens of all parties, for McKinley was right when he said in a large American sense, "We have more in concord than in conflict," these wrongs must be righted and these outrages must be made impossible. And not because he favors it, but because he favors that which is right, this Government by some effectual method of Government control must put its iron hand upon those corporations as Theodore Roosevelt suggests, and compel them to give every man and every community a square deal. The trouble is that while the industrial world has made vast strides in the last half century, government is substantially where it was in its relation to commerce fifty years ago. Government must move up and meet these new conditions for the protection of the people. Fifty years ago no one would have seriously thought of Government regulation of passenger traffic on the old-fashioned stage coach or of interference with freight rates of the old-time caravan. But the people then were not at the mercy of these means of transportation as they now are at the mercy of the common carriers of to-day. Or, take for another illustration the great Standard Oil Company which, by methods absolutely indefensible, has acquired almost absolute monopoly of the oil business of this country, and, indeed, of the world. No one objects to the prosperity of the Standard Oil Company or begrudges it legitimate profits. No one would lay a straw in the way of its legitimate success in this State or elsewhere. But its methods cannot be defended or tolerated by a free people. A year ago it was paying \$1.30 a barrel for crude oil and for which it furnished the almost exclusive market. Prompted by this profitable price thousands of people invested their hard earnings in oil leases and oil wells. Does any one believe that this commercial cormorant was losing money when it was paying that price? Having thus developed this great field at the expense of others, this greedy corporation reduced the price two-thirds and brought bankruptcy to countless individuals and to many local companies.

At this time the Kansas oil field is yielding sixty thousand barrels a day, an insignificant part of its capacity, and for this oil the Standard Oil Company, which sets the price, is paying less than one-third what it paid a year ago. I believe it could pay \$1 per barrel for this oil more than it is paying, and still make a large profit. In other words, it is robbing this people of \$60,000 a day, or \$22,000,000 a year. We look with horror upon a railroad robber who holds up a train and filches

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from the passengers a few paltry dollars, but sit supinely down while we are being robbed of enough money every day by this one corporation to build an hundred homes for the homeless, or to rear a great educational institution, or to endow a college, or in one year to pay all the expenses of the State for five years.

An effort to right this great wrong by the establishment of a State refinery by the last Legislature was characterized by superficial thinkers as a socialistic movement. I have been for years a student of ancient and modern, of philosophical and historical socialism, and I have come out of this study profoundly convinced that socialism is a soporific which would put the industrial world to sleep; that it would paralyze personal talents and dwarf the human race, and that the competitive system, working hardships as it does in many cases, is absolutely essential to individual advancement and to National progress, but I am not to be blinded by the prejudice of terms, and I declare to you that in my judgment the greatest propagandists of socialism on earth to-day are not those who circulate its literature and preach its fallacious doctrines, but they are the great corporation cormorants and trust magnates who are exemplifying its doctrines in the name of competition. What would socialism do for the industrial world? Briefly, it would destroy competition. What else does the great modern trust do? What competition is there in railroad rates when the great companies pool their issues and earnings? What competition was there in this State in oils until the last Legislature made possible, by its maximum freight rate law and its anti-discrimination law the establishment of independent refineries. And may I not pause here to ask the patriotic people of this State to give to these independent refineries, these investors of individual capital, every possible encouragement?

I am not an alarmist, I am not a pessimist, I am an optimist. I am not a whiner for the good old times, times, but I say to you that unless the American people can find some reasonable and speedy solution of these great new industrial problems in which the rights of many can be maintained without infringing the rights of the few, a tidal wave of Government ownership, of practical socialism will sweep over this country one of these days and sweep us all off of our feet. It will be a calamity if it comes because an ideal condition is where the individual has the largest possible place for his talents, and it will be a sad day for civilization when the individual is merged and swallowed up in Government, and when the Indian's ideal of Government is realized—the ideal of a great father dispensing beads and beans and succotash to an incompetent people. But I have faith in the intelligence and courage and patriotism of the American people. They will be equal to this emergency as they have been equal to all the emergencies of the past. The honest, conservative and reasonable corporation people, and the wise, far-seeing, incorruptible statesmen of the land will ultimately get together and solve these problems in the mutual interest of all and each alike.

Agriculture

The Use of the Disk.

IRWIN BROBST, BEFORE OAK GRANGE FARMERS' INSTITUTE.

The question of the day with the farmers is: Shall I use the disk implement or not?

You perhaps all remember when the cultivation of corn was first begun with the disk, and the condemnation it received at the hands of those not using it, and by some that did use it.

At present the disk is converting some of the most skeptical to its use, and the time will soon be at hand, or now is, when we farmers will all say with one accord: "Give me the disk." This may seem to be a broad assertion, but I think time will verify its truth.

I do not, by what I have said, advocate the use of the disk exclusively; but in connection with other tools: for instance, in the cultivation of corn, my plan is as follows: I begin by double-disking with a four-horse disk harrow, heavily weighted; this leaves the ground in fine shape and the corn-stalks in such condition that they never bother in the future cultivation of the corn.

In double-disking it is a good plan to let the weeds start some after the first disking, before giving it the second. After the second (which should be diagonal from the first), let the weeds start up again, after which list the ground and plant.

When the corn is 3 or 4 inches high, then is the time to get in your good work with the disk-cultivator; and although I at one time condemned its use as a weed-killer, I have since changed my mind and will say that when properly handled, there is no other tool that I ever used that will begin to compare with it in the destruction of weeds. I think I hear some one say, "He's off a little bit." Well, maybe he is, but wait and see.

There are a great many disks being used by the farmers of to-day and I'll venture to say that the half of them do not know how to use them as they should. The fault is not so much in the cultivator as it is in the one who cultivates.

We have to use sound judgment in the handling of tools of any kind and the disk is not the implement to be knocked around in any old way with the expectation of its doing good work. But, on the other hand, if it is properly adjusted and in the hands of a competent man, it just simply works itself.

In going over corn the first time throw the outer disk well forward, so that you cover all weeds that you cut from the corn; next have the inside disks about one inch apart when out of the ground. This makes them touch each other at the top when at work.

I can clean out everything in the bottom of a listed furrow except a strip about 4 or 6 inches wide in the center of the furrow where the corn is.

Last year I had 18 rows of corn that I concluded wasn't worth working, as the crab-grass overlapped the corn in the furrows. But one hot, dry day I thought I would try cultivating that corn as an experiment. I went to work, set my disk-cultivator and started in. Actually you could not see the rows two rods ahead of the team; but by looking behind you could see the rows half way across the field. It actually seemed that those disks took the grass away from the corn better than could have been done with the hands; in the wind-up this corn was the cleanest in the field.

After the first disking let it lay a few days, then hitch three horses to a 10-foot harrow, get on and ride. By doing this you take 3 ridges at a time and do better work. If you would rather walk for fear of pulling the horses too hard, you can put a log of about your own weight on the harrow and go ahead, the harrow will do the rest.

I find that the use of the disk is not confined to the cultivation of corn

alone. We have the disk-plow, disk-drill, the two-row sled disk for corn, and some others; but whatever its use, it seems to give general satisfaction.

I heard a gentleman say this fall that he would never use a stirring plow again if he could possibly get a disk.

The disk-drill seems to be the drill for the present farmer, and I think for the future farmer, as well. It seems to adapt itself to nearly all conditions of the soil better than any other. The only drawback is its cost, which is about one-third more than other makes.

Feeding Questions.

EDITOR KANSAS FARMER:—We are feeding a herd of milch cows exclusively on alfalfa hay. In an adjoining yard we have some that we are feeding on corn-fodder. Whenever the corn-fodder cows are being fed the alfalfa-fed cows show a great anxiety to get at the fodder, and when they get a chance to get into the yard they eat up the corn-stalks the other cows leave. Is not alfalfa, fed exclusively, too hard on their kidneys? Would it not be better to feed some other feed in connection with it? Would not the butter results be better?

W. F. S.

Abilene, Kan.

Answer:—I have never heard of any serious results from giving milch cows all the alfalfa hay they will consume. It will do no harm, however, to furnish your cows with some corn-fodder or other roughage if they desire it. I am inclined to think that you are not supplying them with all the feed that they need. With very heavy milkers you will find it necessary to feed some grain to get the best results even when alfalfa hay is fed for roughage. I would suggest that you feed a grain ration of two-thirds corn and one-third bran to your heaviest milkers, and note whether they give you an increased flow of milk. The per cent of butter-fat in the milk of your cows will be varied by the kind of feed given. The only way to increase the butter product is to increase the quantity of milk given.

G. C. WHEELER.

High-Class Farming.

EDITOR KANSAS FARMER:—Why do not more of the farmers practice the methods as set forth and explained by H. W. Campbell on page 1173 of KANSAS FARMER?

They are all feasible, practical, and reasonable. Yet I find in talking with farmers of the plains in both Kansas and Nebraska that the great majority of them think it not worth while, that haphazard methods will give as good results in averaging any given number of years. Where the rainfall is adequate for the needs of the crops grown, much of the labor expended in his methods would be superfluous, and enhance the cost of production; but many times in the more humid sections, there is a lack of moisture, and a knowledge of the principles of storing and conserving the rainfall for the use of plants, would give a wonderful increase if applied. Here in the East there is sufficient moisture in the soil in the spring to supply all the needs of nearly all plants, without a drop of rain through the growing season; but if permitted to run off and evaporate until "the clouds cleave fast together," then the most of us do not realize that we alone are responsible for this condition because "so foolish am I and ignorant."

A friend of mine in Michigan has a grain-drill, made and patented in 1860, that is constructed very similar to the sub-surface packer mentioned by Mr. Campbell. I told him of the similarity of the two implements and he speaks in the highest terms of it, and says the grain comes up much quicker when sown with it than it does when sown with the more modern drills of any style. Why are these principles so essential to the highest development of agriculture allowed to lapse, for a time at least, into obscurity? I can assign no reason un-

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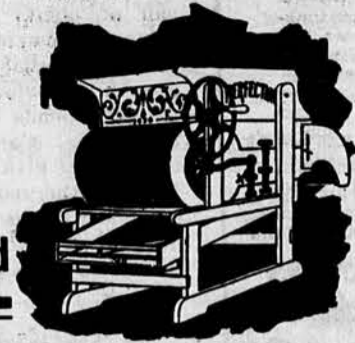
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less it be that the farmers fail to comprehend the laws governing the growth of plants; and by using an implement at the wrong time and under conditions that injure rather than benefit. You will find many condemning implements of the highest order for the purpose designed, because they are ignorant of the time and conditions when they should be used. Among more simple and commonly used of these may be mentioned, the weeder, the roller, and the harrow; and yet all think they understand when to use them, particularly the two last mentioned.

When the language of nature is thoroughly understood and practiced, then will there be less fear of unfavorable conditions and the agriculturist of the more arid sections will be the first to learn, because of necessity; and what was once the Great American Desert will be peopled by the most intelligent and progressive farmers the world has yet seen and become the teachers of all other sections. Even at the present time the West is far in advance of the East in the science of agriculture among the masses. There is one point that I think has not received the consideration it should, viz., the storing and conserving of snow and snow moisture. By the saving of not more than three inches of snow I grew wheat to a height of over three feet, when adjacent fields with thorough tillage and smooth surface headed at six to eight inches high.

F. C. JOHNSON.

Jefferson County, N. Y.

Soiling Questions.

EDITOR KANSAS FARMER:—I would like you to print in the KANSAS FARMER the amount of nitrogen, potash, and phosphoric acid removed from the soil by the different grains, hay and tuber crops commonly raised in Kansas. What I would most like to know is which is the harder on the soil, grain or potato crops.

Johnson County. J. A. SAWHILL.

It is difficult to state the amounts of the several elements of fertility removed from the soil by crops. Evidently part is in the grain, tubers, etc., and part in the straw, stems, etc. Under some circumstances these latter might be removed from the

land and under others, not. Then, the ratio between the straw and the grain is not always the same. There is no doubt, too, that the composition of the ash of plants of the same species varies somewhat, depending upon the soil and perhaps other conditions of growth. Obviously the fertility removed depends largely upon the yield per acre. Calculations have been made that give approximate figures. Perhaps the most reliable are those published by the New York Experiment Station. The following table is a portion of the one published by that station:

Kind of Crop.	Yield of Grain.		Yield of straw.		Lbs. Nitrogen.		Phosphoric Acid, Lbs.		Lbs. Potash.	
	Bushels.									
Barley	20 to 40		1350 to 2700 lbs.		37 to 74		11½ to 23		34 to 68	
Clover, red, (hay)			1 to 2 tons		41 to 82		9 to 18		44 to 88	
Corn	30 to 60		2500 to 5000 lbs.		42 to 84		16 to 32		17 to 34	
Oats	30 to 60		1600 to 3200 lbs.		30 to 60		11 to 22		25 to 50	
Onions	350 to 700				28 to 56		10 to 20		20 to 40	
Potatoes	100 to 200		750 to 1500 lbs.		16½ to 33		10 to 20		31 to 62	
Rye	15 to 30		2100 to 4200 lbs.		24½ to 49		13 to 26		21 to 42	
Sugar beets 300 to 600			3000 to 6000 lbs.		55 to 110		20 to 40		95 to 190	
Timothy hay			1 to 2 tons		25 to 50		10 to 20		30 to 60	
Turnips	350 to 700		2½ to 5 tons		40 to 80		26 to 52		90 to 180	
Wheat	15 to 30		1600 to 3200 lbs.		31 to 62		10 to 20		13 to 26	

You see from the above that potatoes make greater demands upon the potash of the soil than the grains do, but the requirement of nitrogen is less, and of phosphoric acid rather less.

J. T. WILLARD.

Horticulture

Native Trees of Kansas.

READ BEFORE THE WEST SIDE FORESTRY CLUB, DEC. 6, 1905, BY MRS. GEO. W. TINCER.

The average person will be very much surprised to find that we have a list of native trees, containing over seventy varieties growing within our State. The southeastern corner of the State has a much larger variety than any other portion. This is due to the fact that it is adjacent to Southwest Missouri, Northwest Arkansas, and the Indian Territory district that is heavily timbered—in fact, many of our native American trees find the greatest growth in Arkansas. In addition to this, the geological formation of the soil of this part of the State, belongs to the Ozark or red formation, where timber grows more freely than it does in the hard black prairie soil in many portions of the State. The northeast corner, including four or five counties, is fairly well supplied with trees, and this is accounted for by the richness of the soil and the fact that large bodies of timber lie near by, the seed being carried to this locality by the wind, birds and unknown agencies.

Trees that seed in the spring are more widely distributed than those which seed in the fall, because the seeds are of such light weight that the wind blows them in every direction, and when they come in contact with the soil they germinate and grow immediately, the young tree becoming established the first season. Trees that seed in the fall naturally have to wait until the following year before the seed germinates and the young trees can be started.

The subject, "Native Trees of Kansas," is one of much more importance than the casual observer would think—in fact, it is a subject every one should know much more about than he does.

THE WAVER ASH OR HOP-TREE.

The wafer ash or hop-tree is found growing in only a few counties in the State—in Osage and Shawnee Counties in this part of the State, and in the eastern tier of counties. Possibly it may be found growing in some of the well-watered southern counties, but they are not listed.

The wafer ash is a small tree, sometimes reaching the height of twenty feet. It forms a part of the under forest growth of the Mississippi Valley. It extends up into the rocky, rugged slopes bordering many streams and has thick, fleshy roots.

The tree is, indeed, a tree in miniature, often reaching a height of only six feet when fully grown. It has long since been crowded out by the strong forest growth and is content to make its home in the shade of its companions. It grows to its greatest perfection in Arkansas. Its northern limit is Lake Ontario, extending from that point to the mountains of Mexico. Its fruit is a two-seeded samara that is closed in a wooden box in which are safely stored two seeds. The tree never lets this seed be scattered until late in the winter. The seed is very light and fluffy and the wind will carry

it some distance before it comes in contact with the soil. In this way, the tree is able to reproduce itself, though it has few seeds.

THE WHITE ASH.

The white ash is the most beautiful of all the American species. Its common name refers to the silvery under-surface of the leaf. In appearance, the young tree is singularly graceful. In favored localities it is one of the most beautiful street-trees that can be planted. It is distributed from Nova Scotia and Minnesota to Florida and Texas, and is found growing in Kansas in the eastern half of the State quite generally, but not in very large quantities.

Two traditions follow the ash tree. They have come to us from Europe and their origin seems lost in the mists of antiquity. One is that no serpent willingly glides beneath its branches or rests under its shade. The other refers to the peculiar liability of the ash to be struck by lightning, and this is believed by many ancient folk both in this and in the old country.

The wood of the ash is singularly light, strong and very elastic, and is used in the construction of vehicles and farm machinery more than any other wood. In ancient times, the Indian used the ash for making his bow and also the paddle for his canoe. It is, indeed, one of the most valuable as well as beautiful trees growing in this State.

RED ASH.

The red ash is a comparatively small tree, growing only in a few of the eastern counties of the State. It has not special commercial value. It is sometimes used for posts and other similar purposes. It prefers a rich, low, moist soil and will grow fairly well in drier soil, but is not a very hearty nature.

GREEN ASH.

The green ash is more largely distributed throughout the State than any other species of the ash. It is found growing everywhere, but prefers the low bottom-land of creeks and draws. It is used as an ornamental tree to a good advantage and will grow on our high prairie soil and make a fine ornamental tree. In the southwest territory where the ash grows, the green and red ash are classified as the same tree. In the Eastern and North Atlantic States, the distinction is more marked. We find the green ash growing nicely at Garden City and even farther west along the Arkansas Valley. It is subject to the attacks of a borer, however, and the growth of the tree is impaired and flow of sap consequently diminished.

BLUE ASH.

You will find the blue ash growing in Cherokee and Cowley Counties and away up to Republic County, but in no other part of the State. It is a tall, slender tree, sometimes 120 feet

Twenty-five Bushels of WHEAT to the Acre

means a productive capacity in dollars of over

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This on land, which has cost the farmer nothing, but the price of tilling it, tells its own story. The

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gives absolutely free to every settler 160 acres of such land.

Lands adjoining can be purchased at from \$6 to \$10 per acre from railroads and other corporations.

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Trees, Plants & Seeds THAT GROW Best quality. Good bears. Low prices. Apple 4c; Plum and Cherry 12c; Peach 4c; all Budded; Concord Grapes 2c; Forest Tree Seed. 1000 up. **GERMAN NURSERIES** Can Sonderberger, Prop. Tested seeds. Very cheap. Freight paid on trees. Catalogue, English or German, free. Write for it today. Address: **GERMAN NURSERIES**, Box 9, Beatrice, Neb.

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Established 1840.

in height with a trunk 2 feet in diameter. It prefers limestone soil.

It has considerable commercial value to-day, but is used in less quantity than the white ash, because of the fewer number of trees. The tree does reasonably well for park-planting. It has a rich, deep foliage with glossy, green tint. The inner bark yields a blue color to water. Hence its name, "blue ash."

BLACK ASH.

The black ash is a tall, slender tree with a narrow head. It is distributed from New Foundland to Manitoba and extends southward. In this State, it is only found in Greenwood and Elk Counties. It prefers a moist soil and will not grow in a dry region. The wood is very tough, and the Indians in early days manufactured baskets from it, preferring it to any other.

The trunk is often disfigured by knots, which are sometimes taken off and made into balls, which, when polished, show a beautiful grain. The tree does not replant well and will flourish only in swampy places. It is considered a tree of very slow growth and is short-lived.

PERSIMMON TREE.

The persimmon is a small tree, growing only along the eastern border of the State, from Johnson County south. It prefers a light, sandy soil, but will grow in rich bottom-land. The persimmon is one of the most interesting of our native trees. It reaches its greatest perfection in Arkansas and Louisiana, where it becomes a mighty tree, 100 feet in height. The peculiar characteristic of the fruit has made the tree well-known. This fruit ripens in the late autumn and is a pale orange with a red cheek. One of the delights of the natives of the south is to procure this fruit, after the first hard frost, it being impossible to eat the fruit before that time, owing to its extreme bitterness. The tree is greatly inclined to vary in character and in fruit. Some trees produce fruit which is delicious, while others produce fruit that cannot be eaten.

The wood of the persimmon is of no special value. One peculiarity of the wood of this tree is that it is entirely sap-wood—that is, the heart wood is not formed in this tree in any quantity, and never until the tree has reached a considerable age. The heart wood of the old persimmon tree is called ebony. It is hard and takes a fine polish.

(To be Continued.)

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THE . . .



is doing its share trying to send more farmers to your country. You can help that work by a little effort.

Every reader of this notice is requested to send to the undersigned a list of his friends in the East who may possibly be interested. Literature regarding your country will be mailed to them, and any questions they ask will be fully answered.

CHAS. L. SEAGROVES,
General Colonization Agt., A. T. & S.
F. R. Ry.,
Railway Exchange, Chicago.

The Stock Interest

THOROUGH-BRED STOCK SALES

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

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.
Jan. 20, 1906—H. N. Holdeman, Girard, Kans., Poland-Chinas.
February 12, 1906—Jno. W. Jones & Son, Duroc-Jersey bred sows 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. Robinson, Manager, Towanda, Kans.
Feb. 24, 1906—Poland-Chinas, at Wichita, Kans. by H. E. Lunt, Burden, Kans.
February 28 and March 1, 1906—C. A. Stannard, Gage & Simpson, Kansas City, Mo., Herefords.
March 12, 1906—40 Poland-China bred sows, and 45 Shorthorns. C. S. Nevius, Chiles, Kans.
April 3, 1906—James Stock Farm, Willard, Kans., trotting bred horses.

The Making of Prize Cattle.

H. J. WATERS, DEAN OF THE MISSOURI AGRICULTURAL COLLEGE.

The University cattle which won third prize at the Fat Stock Show in Pittsburg in competition with the world, were the last of six car-loads purchased three years ago for the purpose of determining the influence of age upon the cost of beef-production which the Experiment Station is conducting in cooperation with the Federal Department of Agriculture.

One-third of this original bunch of cattle was finished as yearlings, and topped the Chicago market for the year. The second third was finished as 2-year-olds, and also topped the Chicago market for the year. The third portion of these cattle won third place as stated above, and topped the Pittsburg market for heavy cattle, bringing \$7.10 per hundred, the next best load of heavy cattle bringing \$6.50.

They were high-grade Herefords, purchased in the neighborhood of Columbia.

In the meantime the Experiment Station has in the same experiment matured one bunch of yearling Angus and a bunch of yearling Shorthorns. They now have on feed ninety Shorthorns with a view to covering the same ground with a different breed.

In addition to the test of the influence of age upon the rate of cost of gain, these cattle were divided into lots of eight each and fed different grain-rations on pasture, one group receiving shelled corn alone, another one-fourth cottonseed-meal and three-fourths shelled corn, another one-fourth linseed meal and three-fourths shelled corn, another one-fourth gluten meal and three-fourths shelled corn, all having access to equally good grass.

In the case of the yearlings and 2-year-olds, a most rapid gain and as a rule a larger gain was made on the mixed feeds than on corn alone. It is also true that in every case the younger cattle receiving mixed feeds become fatter, carried a better bloom, and were from every point of view more marketable.

In the case of 3-year-olds or the mature cattle, however, the difference in the rate and economy of gain between straight corn and the mixed feeds was almost inappreciable, and there was not a marked difference in the fatness of the different groups.

Attention, Kansas Auctioneers!

The seventh annual convention of the Kansas Auctioneers' Association will be held in Topeka on January 8, 9, 10, and if you have not received a personal invitation by the secretary, let this notice to you be an invitation to attend this meeting. The State Improved Stock Breeders meet in Topeka at the same time. There will be reduced rates on all railroads. This will be a very interesting and profitable meeting to any progressive auctioneer. There will be able lectures

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Plant the seed best adapted to your soil. The Missouri Seed Co. have made a study of the kind of seed best adapted to the old and new sections of the West and Southwest, and handle no other. Be sure to get our large seed book. No better seed grown for irrigated ground. Address MISSOURI SEED CO., 1421 91. Louis Ave., Kansas City, Mo.

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ANY BOY or GIRL, 12 years old or less, can learn how they can have my private pet PONY "Bob" with his elegant rubber-tired PONY CART and Snely Custom-made HARNESS delivered at their door without a cent of cost. I will pay all transportation charges myself. I do not want a single cent of your money. "BOB" with his PONY CART and HARNESS, just as I shall deliver him, is easily worth \$50.00. I will send you full particulars showing you that there are absolutely no blanks. If you wish the PONY and complete OUTFIT delivered to you, all charges prepaid, address a postal, asking for full particulars how to secure him, to CHARLES F. ELLIS, Pony Dept., 24 North William St., New York City, N. Y.



I CURED MY RUPTURE

I Will Show You How To Cure Yours FREE.

I was helpless and bed-ridden for years from a double rupture. No truss could help. Doctors said I would die if not operated on. I fooled them all and cured myself by a simple discovery. I will send the cure free by mail if you write for it. It cured me and has since cured thousands. It will cure you. Write to-day. Capt. W. A. Collings, Box 109 Watertown, N. Y.

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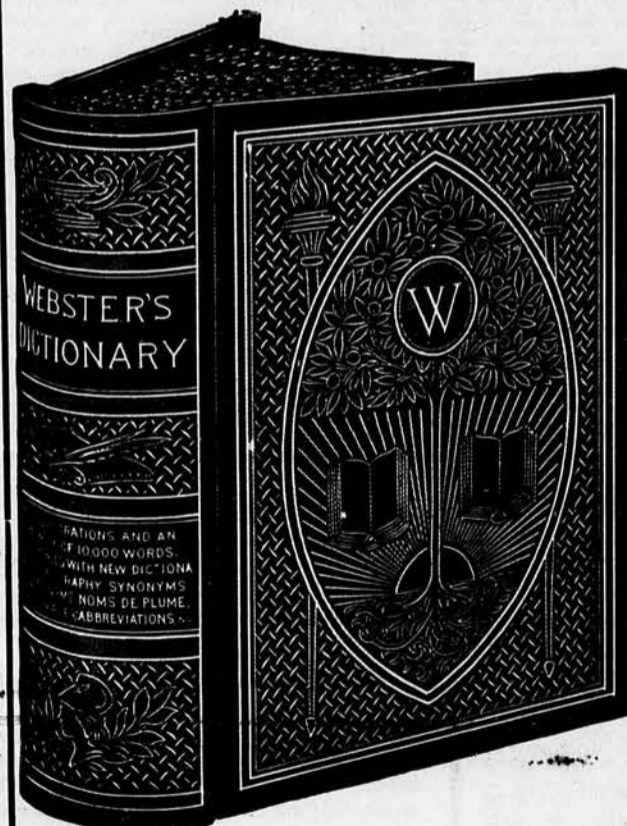
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 The first remedy to cure Lump Jaw was
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 and it remains today the standard treatment, with years of success back of it, known to be a cure and guaranteed to cure. Don't experiment with substitutes or imitations. Use it, no matter how old or bad the case or what else you may have tried—your money back if Fleming's Lump Jaw Cure ever fails. Our fair plan of selling, together with exhaustive information on Lump Jaw and its treatment, is given in Fleming's Vest-Pocket Veterinary Adviser. Most complete veterinary book ever printed to be given away. Durable bound, indexed and illustrated. Write us for a free copy.
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You will find it a better machine oil than anything you have been buying for 35 cents to 45 cents per gallon. Premium Oil is a natural oil, greenish black in color. There is no made oil that is superior to Premium Oil for engines, shafting, shops, elevators, thrashing machines and farm machinery. It will not GUM, has good body, is not affected by hot and cold weather as most oils are. If a farmer, you say you won't need as much as a barrel. Get your neighbor to take half of it. But remember \$3.50 for a 50-gallon barrel, and the empty barrel is worth at least one dollar; gives you oil at less than 6 cents per gallon at your railroad station. If within 300 miles in Kansas freight will not be over 75 cents per barrel. Sample sent on request.

T. C. DAVIS, Benedict, Kans.

Benedict, Kans., August 28, 1905.
 I have this day sold my interest in K. C. Dailey & Co. to T. C. Davis, who will hereafter conduct the business in his name.
K. C. DAILEY.

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 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.
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Send Your Hides to Us
 Horse and Cattle Hides tanned by our process make the finest of Coats and Robes. All work guaranteed. FREE booklet on hides, also shipping tags and price list. Write today.
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 Best year-around climate in the United States. Fertile soil and immensely rich and varied resources.
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 1206 West 9th St., Des Moines, Ia.

by some of the best talent in the profession. There will be a banquet at 7:30 p. m. on the 9th. Please let Secretary L. S. Kent of Hutchinson know if you will be on hand so he can let the committee know how many plates to provide for. Every member should be at this meeting and bring some new brother along.

Short Course in Dairying.

EDITOR KANSAS FARMER: The dairy department of the Kansas State Agricultural College will offer a short course in dairying, beginning January 2 and ending March 22. Special attention will be given to the breeding, feeding and care of the dairy cow, including plans for barns, refrigerators, ice-houses, and all buildings pertaining to the dairy business. Another course is designated for creamerymen

who are especially interested in the manufacture of butter and cheese. The courses will include a thorough study of cream separation, Babcock testing, cream ripening, starters, bacteriology of milk, and cheese-making. All problems that present themselves to the modern dairyman will be taken up. There will also be a week's course given, beginning March 3 and ending March 10. This course is designed for farmers who are interested in operating hand separators and the care of cream on the farm after separating. Special instruction will be given in testing with the Babcock tester. We urge that every farmer in the State should avail himself of the opportunities and advantages derived from this week's course. Address all correspondence to O. Erf, in charge of the dairy department.
C. W. MELICK.

International Show 1905

The Champions. The Sales. The Annual Meetings. A Summary of the Exposition.

LIST OF GRAND CHAMPIONS.

Percherons.
 Stallion, Rosenberg 40447, (55713).
 McLaughlin Bros., Kansas City, Mo.
 Mare, Britomark 40427, Dunham & Fletcher, Wayne, Ill.

Clydesdales.
 Stallion, Pleasant Prince 10636, C. E. Clark, St. Cloud, Minn.
 Mare, Lady Elegant 10422, McLay Bros., Jaynesville, Wis.

Shires.
 Stallion, Rolleston Wonder 7931, (22730), Robt. Burgess & Son, Wenona, Ill.
 Mare, Her Grace, Lew W. Cochran, Crawfordville, Ind.

Belgians.
 Stallion, Major, Dunham & Fletcher.
 Mare, Flora de Bogaerden 43553, H. & H. Wolf, Wabash, Ind.

German Coachers.
 Stallion, Hannibal 2127, J. Crouch & Son, Lafayette, Ind.
 Mare, Muti 390, J. Crouch & Son.

Hackneys.
 Stallion, Forrest King (6943) Truman's Pioneer Stud Farm, Bushnell, Ill.
 Mare, Minerva 5821, Graham Bros., Claremont, Ont.

French Coachers.
 Stallion, Appropos 3445, McLaughlin Bros., Kansas City, Mo.
 Mare, Esmeralda 1360, E. N. Barton, Hinsdale, Ill.

Shorthorns.
 Bull, Whitehall Marshall 209776, F. W. Harding, Waukesha, Wis.
 Cow, Lad's Emma Vol. 58, J. G. Robbins & Sons, Horace, Ind.

Aberdeen Angus.
 Bull, Prince Ito 2d 54471, C. J. Martin, Churdan, Ia.
 Cow, Blackbird 26th 54457, C. J. Martin.

Herefords.
 Bull, Prime Lad 9th 213963, W. S. Van Natta & Son, Fowler, Ind.
 Cow, Heliotrope 159451, Cargill & McMillan, La Crosse, Wis.

Galloways.
 Bull, Imp. Worthy 3d 21228, C. E. Clark, St. Cloud, Minn.
 Cow, Eraline 2d of Avondale 20124, W. M. Brown & Son, Carrolton, Mo.

Red Polls.
 Bull, Falstaff 3d 8125, J. H. Crowder & Son, Bethany, Ill.
 Cow, Poplin 2d 9687, Borden Stock Farm, Tontit, Ill.

Fat Steers, Spayed or Martin Heifer.
 Black Rock, Angus steer, Iowa Agricultural College, Ames, Ia.
Car Lots Fat Cattle.
 Angus steers, Claus Krambeck, Marney, Ia.

Notes on the International Live-Stock Show.

The International Live-Stock Show of 1905, which was held at the Union Stock Yards, Chicago, during the week ending December 23, was not only the greatest success in its own history but was the greatest live-stock show ever made on earth. It was truly international in character, both judges and exhibitors being present and taking active part and interest in the various events of the week. The attendance was phenomenal and careful estimates show that not less than 600,000 people were present during the week. The success of this exposition is due in no small degree to the untiring and intelligent efforts of the exposition officers. It was but a proper recognition

of their ability shown by the Association in re-electing them for the ensuing year.

The showing in the sheep classes was very strong, although it was made almost entirely from Canada and the northern States. A remarkable feature in connection with this show is that the students of the Kansas Agricultural College, who were in the stock-judging contest, won third place on sheep, while they represent a State in which the farmers devote very much more attention to raising dogs than they do sheep. The College, however, raises good sheep, and the boys know how to judge them.

It is a matter of no small pride to point to the records made by the Kansas Agricultural College boys in the exhibits made by the college as well as in their efforts in judging. We give the list of the prizes won in the fat classes by breeds and call attention to the fact that Kansas stands at the front with first prize in the Shorthorns, with which they were specially represented. Other prizes won by this college are shown further down the list. The Kansas institution is wide awake and is now doing thoroughly and well the work for which it was intended, as it has never done before.

There never has been a great show on earth perhaps, where the agricultural colleges made themselves so strongly felt. This is as it should be. In the exhibits of hogs, which do not include breeding classes, at least two agricultural colleges won honors. These were Iowa and Ohio, both of which are in the corn belt and both of which know how to produce good hogs, as well as good students. Plans are under way for renewing the exhibit and classification of breeding hogs at the International next year, though the objections to this are many and serious and it may not be done. The show of the fat classes is amply sufficient as demonstrating what can be done in the development of these animals after they are produced by the breeder. In the great stock yards at Chicago, it has been considered too dangerous to take breeding hogs there because of the almost constant presence of swine disease.

The new building which houses the International, and which was just finished, is a wonder and a delight to the visitor. A picture and description of this building was given on our front page recently. When it was planned and erected, it was thought to make provision for future years, but to the surprise and satisfaction of the officers of the International, it was found that the attendance of the first day tested its capacity, while the attendance of the first evening, as well as during the remainder of the week, made it evident that it was all too small. The building seats ten thou-

Winter Care of Stock



C. E. Morrison

Money lost by not knowing how to feed, house, water and exercise stock in winter can never be regained by regrets. Subscribe for that stock paper, considered authority by thousands of readers—

Blooded Stock

and read the December number. This number will be devoted exclusively to Christmastide and winter care of stock. Mr. C. E. Morrison will conduct a symposium of expert opinion gained from the experiences of stock breeders—East, West, North and South. You can afford 25c and learn \$25 worth. Write order now.
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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.

THE Cheapest Farm Lands

In the United States today, soil, climate, markets, transportation facilities, and all considered.

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They are the best and most desirable in the country for the truck and fruit grower, the stock raiser, the dairyman and general farmer. Let us tell you more about them. The Southern Field and other publications upon request.

Home-seekers' Excursions on the first and third Tuesdays of each month.

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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.

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is the investment end. If the food makes its proper amount of flesh, then the cost is well invested. If a large part of the food is wasted through poor digestion or non-assimilation, then feeding becomes an expense rather than an investment.

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is the prescription of Dr. Hess (M.D., D.V.S.) containing tonics for the digestion, iron for the blood, nitrates to expel poisonous materials from the system, laxatives to regulate the bowels. The ingredients of Dr. Hess Stock Food are recommended by the Veterinary Colleges and the Farm Papers. Recognized as a medicinal tonic and a laxative by our own Government, and sold on a written guarantee at

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Stray List

Week Ending December 14, 1905.

Wabunsee County—Simeon C. Smith, Clerk.
SOW—Taken up by J. W. Sage in Mission Creek tp., November 23, 1905, one black sow, weight about 150 pounds, height 1 foot 6 inches, has white spots on each side, sits in each ear.
Pottawatomie County—C. A. Grutzmacher, Clerk.
STEER—Taken up by E. P. Tibbitts in Rock Creek tp. (P. O. Westmoreland) Nov. 2, 1905, one red steer, right ear split; valued at \$20.

Week ending December 21, 1905.

Allen County—J. W. Kelso, Clerk.
HEIFER—Taken up by R. S. Martin, in Carlyle tp., one red heifer, 17 months old, white star and tip of tail white; valued at \$8.
Greenwood County—W. H. Bonnett, Clerk.
STEER—Taken up by Alex. Cummins in Fall River tp., 3 miles north of Climax, one 2-year-old dark red steer; valued at \$25.

Week Ending December 28, 1905.

Rooks County—W. F. McNulty, Clerk.
HEIFER—Taken up by J. J. Dordill in Hobart tp. (P. O. Stockton, Kans.), Dec. 9, 1905, one 2-year-old red heifer, left ear partly frozen off, long underbit off right ear; valued at \$12.
Johnson County—Roscoe Smith, Clerk.
PONY—Taken up by Walter Baker in Oxford tp., November 11, 1905, one 7-year-old rosy mare, gray, 14½ hands high, some harness marks; valued at \$10.
Greenwood County—W. H. Bonnett, Clerk.
STEER—Taken up by W. P. Kirk, in South Salem tp., December 12, 1905, one red and white steer, FL on left side, 4X on right hip, nick in tip of left ear; valued at \$25.
Elk County—J. L. Logsdon, Clerk.
STEER—Taken up by J. H. Vanasdale (Pres. Elk Grove & Cattle Co.), in Union Center tp. (R. O. Beaumont), November 4, 1905, one dark red, 2-year-old steer; valued at \$24.

LEGAL.

Publication Notice.

Frank A. L. Heustis, will take notice that he has been sued in the District Court, Shawnee County, State of Kansas, in an action in which Minnie D. Heustis is plaintiff and Frank A. L. Heustis is defendant; that the plaintiff's petition now on file in said court alleges gross neglect of duty on the part of the plaintiff toward the defendant, and asks that the plaintiff be granted a divorce from the defendant; that unless the said Frank A. L. Heustis shall answer the petition of the plaintiff on or before the 30th day of January, 1906, said petition will be taken as true and judgment be rendered in accordance with the prayer of said petition, and the plaintiff be granted a divorce from the defendant, also the care, control and custody of the child born to the plaintiff and defendant, and all of the property now owned by the plaintiff, together with costs of this action.

P. H. FORBES,
Attorney for the Plaintiff.

Attest:
I. S. CURTIS,
Clerk of the District Court.

sand people comfortably and will accommodate very many more when filled to its capacity. A series of evening shows were given in which the prize-winners were paraded and a display made of special classes of horses and ponies.

McLaughlin Bros., America's leading horse importers, showed at the International this year for the first time with 26 head of Percherons. They won first in 4-year-old class on Damocles (52240) 41215, second on Cyranos (51449) 40573. First in 3-year-old class on Rosenberg (55713) 40447 and second on Fusain (53895) 40544. First in 2-year-old class on Monaco 2d (58559) 40853, and second on Diamant (58946) 40398. They also won Grand Championship on Rosenberg and a large number of registry company specials for which they competed. They sold the second prize 2-year-old Diamant to the Iowa Agricultural College, which entered him in the International Show.

Prof. C. F. Curtiss, of the Iowa Agricultural College, makes the following very pertinent remarks about the success of American breeders:

"American bred cattle of the beef type are becoming distinct from those across the water. Take Galloways, for instance; they are earlier in maturity and thicker in flesh than their ancestors. Our Herefords are different from those of the same breed seen in the British show yard. They have more refinement, mature earlier and are easier in fleshing qualities.

"Angus breeders show great progress. They have straightened up backs, eliminated long necks and acquired for their cattle fleshing and maturing qualities."

This year's display of breeding cattle will doubtless have the result of greatly stimulating interest in pure-bred cattle. The ringside is crowded with country visitors.

The International Live-Stock Show now takes rank as the greatest show of breeding and fat cattle on earth. It has always been very strong in the fat and feeding classes. This has been considered right and proper, as Chicago is recognized as the largest live-stock market in the world. One of the strong features of the International, however, is the exhibit of breeding classes, which is this year greater than ever before and which was characterized by the fact that the younger classes were stronger than ever and give great promise for the future of their respective breeds. Compared with last year, the number of animals on exhibition of the several breeds of cattle makes a very attractive showing. As this great exposition occurs at a time when the cattle interests of the country are just emerging from a prolonged period of depression, it serves to indicate that men who handle these cattle have not lost their faith. The comparative statement for the two years is as follows:

	1905.	1904.
Shorthorns	278	247
Aberdeen-Angus	151	184
Herefords	143	94
Galloways	75	91
Red Polled	99	70
Polled Durham	36	55

The Corn Contest.

In the students' judging contest on corn, Iowa was the first prize winner and succeeded in wresting the Cook Trophy from the Kansas boys this year. Following are the names of the institutions and the student teams representing them in the contest in the order placed by the judges:

Iowa—F. C. Tripp, L. W. Ellis, E. P. Humbert, O. A. Cohagan and D. B. Fish.

Nebraska—H. W. Barre, C. H. Bohrer, C. W. Pugsby, W. L. French, and L. L. Zook.

Kansas—R. R. Birch, C. S. Jones, J. S. Montgomery, G. E. Yerkes and F. L. Williams.

The Grand Champion Steer.

Again the Angus is to the fore. The grand champion fat steer of the International of 1905 is Black Rock, an Aberdeen-Angus. In the six years' history of this great show the grand championship ribbon has been carried away four times by Angus or Grade Angus steers and the champion of 1903 is in doubt as to his breeding. Following is a table showing the facts concerning each of the champions during the six years of the International. In this showing it will be noted that the agricultural colleges are doing the grandest work in producing these high-class animals and that nowhere are their efforts more highly appreciated than in the educational work they are doing in show-



Grain and hay fed to an unthrifty animal is largely wasted. Put your unthrifty stock in a thrifty condition, and make your thrifty stock do better and pay better, by using

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F. C. Swiercinsky's

POLAND-CHINA SALE

January 3, 1905

35 Choice Animals Sale at Freedom Stock Farm, 3 1-2 miles northwest of Belleville, Kansas. The offering will consist of 6 choice tried sows, 6 selected fall yearlings, 16 early top spring gilts and 8 fine boars. Sows all bred to Republic County sweepstakes hog, Parks Tecumseh 32597. Spring and fall gilts bred to three other grand boars. Parties from a distance entertained. Send for catalogue early. Sale begins at 12:30 p. m. sharp. Bids may be sent to auctioneers or field men in care of Mr. Swiercinsky.

F. C. Swiercinsky, Belleville, Kansas.

KIRKPATRICKS POLAND-CHINAS Public Sale. Expenses off price. Buyer satisfied or pig returned and money refunded. Splendid lot of young boars ready for service. A few fancy ones for the showman. 25 bred gilts guaranteed safe in pig to Pathfinder, half-brother of Medler. No better pigs nor fashionably bred in the corn states. Have been fed and raised expressly for prolific and profitable brood stock. Write or come and see H. M. KIRKPATRICK, Walcott, Kansas.

ing the farmers, breeders and feeders how to produce these magnificent animals. The Iowa Agricultural College has the credit of producing the grand champion steer for the second time in these contests. Following is a compiled statement of facts concerning the various grand champion during the history of the International:

Year.	Name.	Breed.	Exhibitor.	Per lb.
1900	Advance	Angus	B. R. Pierce	\$1.50
1901	Wood's Principal	Hereford	Geo. P. Henry	.50
1902	Shamrock	Angus	Ja. Agr. Col.	.56
1903	Challenger	Mixed	Nehr. Agr. Col.	.26
1904	Clear Lake Jute	Angus	Minn. Agr. Col.	.16
1905	Black Rock	Angus	Ja. Agr. Col.	.25

The College Contest on Live-Stock Judging.

One of the most highly valued of the features of the great International is the opportunity offered for contests in corn and live-stock judging to the young men attending the various agricultural colleges. While the exhibits of breeding and fat stock afford lessons of immense value to all visitors, the young men of the agricultural colleges are afforded special opportunities to increase their knowledge by these judging contests. This year the largest number of colleges in the history of the International were represented in the live stock judging and the contest was keen. It was a matter of some surprise and perhaps some regret that this grand trophy should go to a foreign country, but as this is truly an Interna-

tional show the world was invited and in whom could our student boys find a worthier victor than the Ontario, Canada, College? It is required that the students shall pass upon cattle, horses, sheep and swine. The total number of possible points to be won is 5,000, of which Guelph College of Ontario attained 4,154.30, with Ohio a

close second with 4,068.33 points. The Iowa Agricultural College which won the Spoor Trophy three times in succession, only succeeded in getting third place this year.

The following summary shows the standing of the colleges as well as the individual students in the different contests:

Standing of Colleges in Sheep.

Ontario	688.66
Iowa	648.33
Kansas	563.33
Ohio	496.66
Missouri	476.66
Michigan	460.00
Texas	451.66

(Possible mark, 1,000.)

Standing of Colleges in Swine.

Texas	1,229.09
Ontario	1,217.15
Ohio	1,200.00
Kansas	1,133.77
Iowa	1,163.98

(Continued on page 1302)

The Young Folks

CONDUCTED BY RUTH COWGILL.

AFTER HUSKING.

When the tater's in the cellar
And the corn is in the bin,
It kind o' makes a feller
Wear the darkey's melon grin;
For he doesn't need to rustle
Long before the rooster crows;
And rumble to the cornfield
When he can not see the rows.
But he can snooze till seven,
Then turn o'er and snooze again;
When the tater's in the cellar
And the corn is in the bin.

When the tater's in the cellar
And the corn is in the bin
You jest can go a' shoutin'
And then shout some more again.
You don't care what kind of cloud-banks
Are a' comin' in the north;
Nor haste to read the message
The weather clerk sends forth;
And for all the rain or snowstorm
You do not care a pin—
When the tater's in the cellar
And the corn is in the bin.

When the tater's in the cellar
And the corn is in the bin
There is corn bread in the oven,
And beefsteak on the tin;
And when a feller breakfasts
He just takes his slowest time
Eatin' corn bread, beefsteak, gravy,
From gettin' up t' nine.
And if he grows fat, why, lazy
They can not say he's been,
When the tater's in the cellar,
And the corn is in the bin.

When the tater's in the cellar
And the corn is in the bin,
And you are late to meetin' once
It can not be a sin,
For your prayers have all been answered,
And with leisure to look back
You can take your time a thinkin'
On the burstin' harvest sack.
And it makes you feel just slightly
That you owned the world agin—
When the tater's in the cellar
And the corn is in the bin.

J. R. Ellenbecker.

Marysville, Kans.

Saragossa—Monserat.

ANNA MARIE NELLIS.

While I would like to tell you of our visit to San Sebastian, where we again saw the King and Queen-mother, yet for various reasons—too long to explain, I think it best to hurry on to Saragossa, which is an exceedingly old city, famous for its antiquity. This place seems to have been "laid out" or platted by Oldman Tubal Cain—a nephew of old uncle Noah, on his father's side. Now, I am not sure in my own mind that Mr. Cain was the original proprietor, but the folks living here told me so, and they, surely, ought to know; and they claim that the first building was put up in the year 250 after the flood, or thereabouts.

But, if it was Tubal, he surely left a very commendable monument in the old city; and he deserves a whole lot of praise for his enterprise in building so lastingly. Historically it is especially noted for the two great "sieges" it endured—the first in June, 1808, the second in December of the same year. It was during the latter trouble that Miss Augustina made her enduring fame by fighting, and thus became known as "the Maid of Saragossa." It seems, she stood in the ranks, by the side of her lover, and artillery man, and when he fell, mortally wounded, she worked his cannon herself, for all it was worth. The story is quite pleasantly told by Lord Byron in his beautiful poem called "Childe Harold."

"Her lover sinks—she sheds no ill-timed tear;
Her chief is slain—she fills his fatal post;
Her fellows flee—she checks their base career;
The foe retires—she heads the rallying host;
Who can appease like her a lover's ghost."

So naturally, the main interest in the city is centered in the poor, pretty Augustinian—here is where she stood—there she fell—here her lover dropped, and there is where she fired the cannon. Every peasant there knows the entire story by heart. But

the city itself appears so old, worn and decayed, that it gives one the impression that the inhabitants have moved out into newer quarters. There are few vestiges of the Roman period; the Goths have likewise left but few shadows of their rule and time; but the spirit of the Moor and the medieval Spaniard remains, and that quaint and charming style of architecture, called the "Aragonese plateresque." It still retains its ancient walls; and one must enter by the city gates or remain outside. The streets, like those left by the Moors, are merely narrow lanes.

Next to Augustina and her haunts the most interesting part of Saragossa, to us, was the Cathedral, of which there are two very beautiful specimens. "El Pilar" is the larger and more interesting, while "La Seu de Urgel" is the older, and possibly more noted in history.

"El Pilar" was built under the direct command, and direction of the Virgin Mary. It seems, one day, that the Apostle Santiago was out walking, and when he had "rounded a little knoll," he saw the Virgin Mary standing on a jasper pillar or column and she was surrounded by quite a bunch of angels. He told Mr. Santiago that she desired a big church built right where she was standing; and that she would have the jasper pillar to start with. Well, he went to work and built a quite nice church, and the pillar is still there, all right, but not visible to the unchristian eye. It is covered with some religious, hard-wood material, and only a little hole is left through which the pillar can be touched with a needle; and this hole is kissed by the faithful every day of the week. I sat near it for a quarter of an hour and during that time forty-nine good people came up and kissed it.

The "Holy Image" of the "Virgin and Child" is right in front of the covered holy jasper pillar and it is usually covered by a silver "reja" (veil); but we were very fortunate to be there on a church festival day, and the image was uncovered. It is like a doll, about three feet high, holding a child in its arms; but both are very beautiful, dressed in white satin and crusted with gold and jewels. Behind the Virgin's head is a halo of diamonds, in value \$300,000, which had just been presented to the lady; and now the Saragossanese are very proud for the Virgin has the most beautiful "halo" in Spain. Outside of the Cathedral the beggars are so numerous that it was difficult for us to enter the building.

One building in the city is most interesting to music lovers, and that is the Aljateria, which was formerly the palace of the Moorish kings or Shieks, and afterward, the residence of the kings of Aragon; and now is converted into barracks. Within its walls (so the story goes), was confined the unhappy lover of Leonora, with whom all are familiar who have read Virgil's charming "Trovatore." In the same building is a room called the "Salon de Santa Isabella," so called because it is said the "Holy Queen of Hungary" was born in it, in 1271. The ceiling is gilded with "the first gold brought by Columbus." Brother Columbus must have brought many tons of it, for nearly every church and palace in Spain seems to have been plastered with it.

Saragossa is also famous for being the place where Charlemagne in 777 had some trouble with the Moors, and lost the battle of Roncesvalles, where Roland was the last man out.

But our party must hurry on through the city and Northern Spain, to Monserat, then Barcelona on the gulf of Lyons and then say "good-bye" to Spain.

Very few foreign tourists visit Monserat—the famous mountain some twenty-five miles from Barcelona. On this mountain is a grand monastery; and somewhere among its peaks (according to Wagner) the "Holy Grail" was kept or hidden, Wagner lays one of his scenes in "Parsifal" here on

Monserat; and the good monks in the monastery make and export a fine quality of "Chartreuse" for drinking purposes. What is particularly strange about this mountain, is the fact that it was "thrown up" here on the treeless plain by volcanic action some ten thousand or more years ago last summer. There is no other mountain in sight, except on very clear days one can see the Pyrenees in the dim distance; and from its summit one has an uninterrupted view of sixty miles in radius. Possibly this mountain was asleep when the others marched by, and that might account for its loneliness. It is about twenty-four miles in circumference, and its summit consists of several jagged serrated peaks, the highest of which is 4,073 above the Bay of Biscay.

Monserat, or Mons Serratis, or the Jagged Mountain is so called from its form, and our first view of it in the early dawn (4:30 a. m. when we arrived at Monistreal, where we changed cars for the funicular road) induced us to believe it was indeed a very jagged affair—like a huge rock-saw with its teeth turned helplessly toward heaven, and many of them lost among the clouds.

However, the principal matter of interest, for our party, in this mountain, was the world-famous monastery, one of the most celebrated shrines in Spain; and it is visited by more than one hundred thousand pilgrims each year. According to the legend of its erection, Bishop Gondelmar, hearing a report spread by some shepherds, that mysterious lights were seen and music heard, both coming from the jagged mountain, visited it in 880 to find out the truth of the stories, he found a small statue of the Virgin in a grotto, which image is said to be the work of St. Luke, and to have been brought to Spain by St. Peter. When the Arabs invaded Catalonia (the province in which is located Monserat), the image was concealed here by the Bishop of Barcelona and it was being carried to Mauressa. This statue held a conversation with Bishop Gondelmar and told him that it did not wish to travel any further; and that it desired the Bishop to build it a chapel and altar there on the mountain. He did so, and placed an anchorite to watch over it. Now the devil (Satin my name) came in person and inhabited a grotto close by, with the determination to lead astray the pious old man—Wilfred by name.

The Count of Barcelona had a beautiful daughter, Rigulda, who having become possessed by the evil spirit, declared that the latter would not leave her until Juan Gaurin (the godly anchorite called Wilfred) gave it leave to do so. The Count then took her to the permit, and left her in his care. Gaurin was perversely inspired, and finally cut her head off, and buried the body. By and by Gaurin, all repentant, parted company with his wicked friend the devil and fled to Rome. The Pope gave him absolution, but ordered him to return to Monserat, never to look up to Heaven but live, walk and feed like the beasts without uttering a word. Heaven seems to have confirmed the Pope's verdict for shortly afterwards he was turned into a wild beast. The huntsmen of Count Wilfred of Barcelona, captured the strange animal and took him to the palace where he became a great lion. But not long afterward, at a banquet given by the count, the wild beast being introduced for the gaze of the guests, a child cried out to it: "Arise Juan Gaurin; thy sins are all pardoned thee." Well, that beast just got up on its hind legs, and became a man at once, and was pardoned by the count for his former hideous deed of murder. Then a big search was made by the holy fathers and Gaurin, which led to the discovery of the fair Rigulda, who not withstanding having "lost her head," and had been buried seven or eight years in a deep hole, reappeared alive with only a red ring around her throat—more like a silk thread, than

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SN-1530—This Fine Isabella French Coney Fur Scarf is 84 in. long; has 3 twelve inch tails at ends; large silk ornaments and tassels on front; long cord ties; fur ball tassels. Comes in solid black or blended browns. For a short time we are offering this \$5 bargain for \$1.98

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a wound; and it was more becoming to her than otherwise.

Count Wilfred then founded a nunnery of which Rigulda became Lady Abbess; and Gaurin received the nomination for head butler or "Major domo." The miracles performed by the Holy Image above described attracted thousands of pilgrims every year. It has ever since been a favorite shrine for kings, popes, great generals and such folks. We wanted to see it; and next week I will tell you all about our visit to the "Holy Image."

Some people kin sympathize with others in their troubles with a better grace than rejoice with them for their good fortune.—Billings.

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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.

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In ordinary years we have a great surplus of wheat and other grains as well as of live animals and meats that must find a foreign outlet or prices fall to an unprofitable level.

Now comes Germany with a tariff to go into effect March 1, 1906, which closes the second largest market for food products in the world against us, until we will "tote fair" with her.

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Chillicothe, Missouri.

For the Little Ones

LISTENERS NEVER HEAR ANY GOOD OF THEMSELVES.

Three little crickets, sleek and black,
Whose eyes with mischief glistened,
Climbed up on one another's back
And at a keyhole listened.

The topmost one cried out, "Oho!
I hear two people speaking!
I can't quite see them yet, and so—
I'll just continue peeking."

Soon Dot and grandma he could see—
Tea-party they were playing;
And as he listened closely, he
Distinctly heard Dot saying:

"This pretty little table here
Will do to spread the treat on;
And I will get a cricket, dear,
For you to put your feet on."

The cricket tumbled down with fright;
"Run for your life, my brothers!
Fly, fly!" He scudded out of sight;
And so did both the others.

—Carolyn Wells, in St. Nicholas.

Tiny's New Year's Resolve.

BY ALICE MAY DOUGLAS.

It seemed as if all were talking at once, yet they were really speaking but one at a time, these six little opossum brothers and sisters, as they awoke upon the first day of January and looked about upon their forest home.

"And what were they saying?" you ask.

Why, they were talking about their resolutions for the coming year, as no doubt you were at that very hour; and what were their resolutions?

Well, these were the resolutions made by Tiny, who, although of the same age as the others, was of a much smaller size. He looked very comical as he seated himself upon his hind feet, because there was no chair handy in the grove. He said: "I have made upon my mind that I won't ride on my mother's back any longer."

The other brothers and sisters looked at Tiny in amazement.

"I reckon you will break that resolution by to-morrow," said his brother Pos, with true Southern accent.

"Indeed he will," said Boss, who was called Pos' twin for the simple reason that these two resembled each other more closely than any of the rest of the family.

"That is so," echoed Cotton Ball and Orange Blossom and Diamond, who always echoed everything that Boss said.

Now you may not know that what Tiny meant by getting upon his mother's back, referred to a habit opossum mothers have of carrying their children upon their backs. This is not the case with all of these opossums; for the genuine opossum has a pouch in which he carries his little ones, as soon as they are born, and they are as fond of this "pocket," as it is sometimes called, as is a baby of its cradle.

You may ask why the opossums are thus carried and I will say in answer that it is because when young they are imperfect and so small. Animals of this family are called kangaroos in Australia. One of them but twelve hours old was found to be only a little over an inch long, whereas a full grown kangaroo measures from six to nine feet in length—much taller than the average man is, you see.

Now none of the others found such enjoyment as did Tiny in riding upon his mother's back together with the others, with their little tails coiled about her long one, which, bent up over her body, served as good a purpose as a branch of a tree would have done, and keeping them from falling off; and Tiny still persisted in riding upon that patient old back when he was old enough to be going off by himself. He was not unlike your baby brother who wants mother to rock him to sleep in her arms after he is old enough to be put to bed by himself.

His opossum brothers and sisters had been rude enough to laugh at Tiny for this babyish habit, but the mother didn't mind, for she was like all moth-

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ers and understood humoring very well.

Tiny made the resolution, however, and the next morning when his mother came near him, thinking that she would thus give him a good chance to jump upon her back, he walked off as if he did not see her. Then he wished her a happy new year. And that was all.

O, no, not quite all, for never since has Tiny taken a ride upon that back.

We should allwuss remember that, while there are but fu in the world disposed to help us, there iz not one who is unable to hurt us.—Billings.



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Tomorrow clouds may come in view,
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Do it now.

If you have a song to sing,
Sing it now.
Let the notes of gladness ring
Clear as song of bird in spring,
Let every day some music bring;
Sing it now.

If you have kind words to say,
Say them now.
Tomorrow may not come your way,
Do a kindness while you may,
Loved ones will not always stay;
Say them now.

If you have a smile to show,
Show it now.
Make hearts happy, roses grow,
Let the friends around you know
The love you have before they go.
Show it now.

—Chas. R. Skinner, in New York Sun.

Scientific Motherhood.

FLORENCE SHAW KELLOGG.

"With what a pretty greed
A baby takes its food;
A lovely parable
For mother's reading writ;
Your baby's soul expectant stands,
See that you nourish it."

Because of this—because baby's "soul expectant stands" it is that motherhood is so solemn and so all-important; and yet seemingly comparatively few think of it in this light or feel the sacredness of the duties they take upon themselves in becoming mothers. Even though it were but the beautiful baby body the mother called into being, and must nourish and cherish through all the tender years of infancy, yet would she need careful training and thought that her work be perfectly done. But deeper far than this, she has the training of a soul; and that this may be well done calls for the consideration of all that is highest and noblest within her. This it is that makes her work so far-reaching, so deeply solemn. She, under God, calls an immortal soul into being, building not for time alone but for eternity; and if she do this work well, there is nothing that can surpass it—nay, nothing that can equal it, nothing so worthy of the devotion of all her strength of mind, body and soul. No woman of good heart and understanding need seek for a wider field or a nobler work than she has within her home.

Here, with the loving sympathy and cooperation of her husband, with infinite patience and care, taught of God through her holy love, through such suffering as only a mother can know, she brings her children into the world, and ministers unto them, carefully, prayerfully, day after day, she lives before them, that all her precepts may have the emphasis of her life; lives as she would have them live, being herself what she would have them be; and time brings her her rich reward as she sees them grow to be noble men and women, ready to take their places among the earnest workers in the great world, and so to perpetuate what she has done.

Surely this is a mighty, noble work, and no other can compare with it in magnitude and importance. No other is better worth the doing or calls for more consecration, more heroism, more love. And yet though all this be true, how many fathers and mothers look at it in this light, or feel that they should have careful training and preparation for it? How many among the average young men and maidens think of parentage when they think of marriage, and try to make themselves worthy of it as they should? How many parents teach their sons and daughters who are to be the future fathers and mothers, regarding those things, and try to give them a true feeling of their needs and respon-

sibilities here? How many have correct understanding of these matters and are ready to meet them aright? Why is it that for every other work in life we feel our children must have years of study and preparation, but for this, the highest, most important of all—as it is the most beautiful we dare to leave them in ignorance or with only such teaching as nature instinctively gives?

Oh, the pity of it! Oh, the shame that it should be so! Until this is different, until parenthood is regarded as a science, and we learn to fit ourselves for our work here as elsewhere, making our preparation deep and holy, as the work is holy; until we learn to find here need and use for the best we have and are, we shall have marriages that are an outward bond only, unhappy parents, invalids, idiots and criminals of all degrees among us, and must sustain divorce courts, reformatories, penitentiaries, and other places that are alike our sorrow and our reproach as a civilized Christian Nation.

Drummond tells us to hold "things in their true proportion." If we do this, what can we put before true parenthood? What that would so enoble and enrich human life as a just realization and regard for truth and righteousness here—a seeing to it that our children are well-born, properly cared for and taught through the years of infancy and youth? Think of the change that would come in comparatively short time if this were done! Think of how the great world would be lifted sunward if, in all our colleges and in universities, as in our homes, the science of life took rightful place among the lesser sciences and was taught in all its beauty and holiness! Then, when, with the passing of years, true love comes to brighten and enlarge the horizon of life for our men and maidens, they would enter upon the new relations with clear understandings of its duties and responsibilities, feeling its privileges to be a sacrament, its work a consecration, and, working in this spirit, would build a home where angels would joy to linger, and from whence all good influences would go out to bless the world of men.

This is the vision before us and there is a something within our hearts that tells us it shall yet be fulfilled. Here and there are brave souls who are working to this end, and we feel their efforts shall yet be crowned with success, and a glad new day be ushered in when the thought and ambitions that to-day stir a few hearts, shall be universal, and from the seeds they are sowing shall spring the mighty tree whose leaves are for the healing of the nations. Let us not be discouraged. Who works for the right works with God, and can not fail.

Tested Recipes.

Tomato Puree.—One quart tomatoes, one pint hot water in which is dissolved teaspoonful beef extract, one bay leaf, sprig parsley, stick of celery, six pepper corns and one teaspoonful sugar, simmer until tomato is thoroughly soft.

Fry a sliced onion in one tablespoon butter; add one tablespoon flour and cook but not brown. To this roux add enough of the tomato to thin, then mix well with rest of tomato and season with salt. Pass through a fine strainer and heat again before serving.

Date Cake.—Whites of four eggs beaten stiff, gradually beat in two small teacups of confectioner's sugar, one teaspoon vanilla, small pinch salt, one pound dates (cut in half), ½ pound shelled almonds, blanched and cut into large pieces. Bake on buttered paper in shallow pans 25 minutes in moderate oven. The success of this recipe depends on the baking.

Bolled Fish.—Wash and clean thoroughly, put on in plenty of warm water to which has been added enough salt to give the proper seasoning, boil twenty minutes; when done take from the kettle, drain, place upon a hot plat-

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ter, garnish with lemon points and sprigs of parsley; serve with melted butter.

Molasses Layer Cake.—One-half cup butter, ½ cup sour milk, ½ cup molasses, four eggs, (less two whites), 2 cups flour, one teaspoon soda.

Muffins.—Two tablespoons butter, two tablespoons sugar, two cups flour, two teaspoons baking powder, ½ teaspoon salt, two eggs, one cup milk. Bake in muffin-rings.

Cold Slaw.

Cut 1 medium sized cabbage head, salt and let lay 2 hours, and squeeze out all the salty juice and place in a dish. Add to this ½ cup sugar and ½ cup of cream (either sweet or sour) and stir until it is foamy, then add ¾ cup lemon juice.—Mrs. J. T. Thompson, Valley Center, Calif.

Buttermilk Nut Cake.

Two cups granulated sugar, ½ cup butter, 2 cups fresh buttermilk, 1 large teaspoon soda in milk, 1 cup chopped raisins, 1 cup chopped English walnuts, 3 level cups flour, 1 teaspoon nutmeg, 1 teaspoon cinnamon, bake slowly.—Mrs. J. T. Tyrrell, Sterling.

Pumpkin Pie.

To a quart of boiled milk put a quart of strained pumpkin, add 1½ cups of sugar, 4 well-beaten eggs, a teaspoon each of salt, cinnamon and ginger, and 1 desert spoon butter melted in the hot milk; to mix the ingredients stir the sugar, cinnamon and salt into the pumpkin, add half the milk and stir well together and then the remainder, and lastly the eggs. The recipe makes

four pies and is very nice.—Miss Della Dewees, Saxman, Kan.

Mush, Corn Meal.

Into an iron kettle put 2 quarts of water, salt and when boiling thoroughly sift slowly through the fingers 1 pint of meal, that it may be very smooth; boil and stir 15 minutes, then set back on stove and cook slowly for one hour.

For Frying.—Pour the hot mush into an earthenware bowl containing 1 tablespoon of milk, that it may turn out smooth when cold; then cut into three-quarter-inch slices, roll in flour, place in hot skillet containing 2 tablespoons of butter and 1 of lard (or use meat fryings), brown slowly, turn and finish on back of stove for 30 minutes.—Mrs. Margaret Leeds, Sterling.

From My Window.

MRS. F. C. JOHNSON, ST. LAWRENCE, N. Y.
Swaying in the breeze from a branch of a small maple-tree, I see an oriole's nest. Not until the leaves were gone was it discovered, so well was it hidden amidst the dense foliage. The nest is fastened to the twigs by strips of cloth, some six inches long and an inch wide. The nest is cup-shaped, and silvery gray. What a wonderful piece of architecture! The building of a house by man seems small in comparison to this delicate piece of mechanism. There must be brains and reasoning faculties back of all this. I wonder where the builders and nestlings have gone—to the far South-land—and will they return in the



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springtime, repair their home and raise another brood to go out into the world with their beautiful songs and plumage?

In front of my window is a large maple, a noble tree—one of the monarchs of the forest that was saved when the country was cleared. The branches are bare, save a very few leaves, so few that one could count them. I think every passing breeze will send them to the ground, but they still cling to the old tree, loth to leave it alone. It brings to mind the beautiful poem by Holmes, "The Last Leaf." Jack Frost is busy with his icy brush painting pictures on the windows—such beautiful tracery of ferns and fine-laced branches of evergreens—only they are not green, but white. Where he lays his paint thicker the foliage is larger. And as it goes higher and thinner, how delicately beautiful it is! a filmy lace, so rare that no loom or hand can imitate. Inside the window on a stool is a Christmas cactus, full of buds for blooming at the Christmas-tide. There is sound of bells on the crisp air. Rollicking boys and girls, just out of school, make merry with snowballs. Old winter is here for sure. He gives us a hearty shake with his icy hand and we shiver at his touch. But winter has its charms.

Sekrets that we kan't keep ourselves aren't worth keeping by enny boddy else.—Billings.

It iz a grate deal cheaper to work than it iz to beg; enny man kan earn two dollars while he iz begging one.—Billings.

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Our Club Roll.

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Give and Get Good Club, Berryton, Shawnee County (1902).
Women's Literary Club, Osborne, Osage County (1902).
Women's Club, Logan, Phillips County (1902).
Domestic Science Club, Osage, Osage County (1898).
Ladies' Crescent Club, Tully, Rawlins County (1902).
Ladies' Social Society No. 1, Minneapolis, Ottawa County (1888).
Chalithe Club, Highland Park, Shawnee County (1902).
Cultus Club, Phillipsburg, Phillips County (1902).
Literature Club, Ford, Ford County (1902).
Sabeau 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, (1902).
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).
Prentiss Reading Club, Cawker City, Mitchell County (1903).
Cosmos Club, Russell, Kans.
The Sunflower Club, Perry, Jefferson County (1905).
[All communications for the Club Department should be directed to Miss Ruth Cowgill, Editor Club Department.]

Art Program.

Carot.

Roll call—

I. Carot and nature.

II. My favorite picture by Carot.

III. Carot and his home.

Carot was always true to nature in his painting. He loved nature as he loved his art, and spent much of his time studying her. He lived out of doors—rising from his sleep before the break of day and going into the forests and by the lakeside to catch her in all her various nooks. He caught the sun and the beautiful glow as it emerged in the morning. It was from nature that he learned to produce the misty effects that are so characteristic of his pictures. He studied all the phases of nature until his soul was full and he could reproduce them at will.

II. Very few have the privilege of looking at the pictures of this famous artist, but there is no one that may not see and study copies of any or all of his paintings. One cent will buy one, and better reproductions may be had for a little more. It is a means of culture to make a study of a great picture as it is to study a grand poem.

III. Huch as he loved his work, it or nothing else could come between him and the home folks. He had gone to Italy for a prolonged stay and was preparing to settle down for solid work when his father wrote for him to come home. Although loth to leave the beautiful scenery and relinquish his plans, he started at once on his homeward journey. His devotion to his sister was so great that her death was the cause of his decline in health which resulted in his death.

In writing to a friend Carot gives an account of a day spent in the open air. In this he shows all the enthusiasm of a child going through a new and delightful experience. Here is a part of that description:

"A landscape painter's day is delightful. He gets up early, at three in the morning, before sunrise. He goes and sits under a tree and watches and waits.

"There is not much to be seen at first.

"Nature is behind a white veil, on which some masses of form are vaguely indicated. Everything smells sweet. Everything trembles under the invigorating breezes of the dawn.

"Bing! The sun is becoming clear and begins to rend the veil of gauze behind which the meadow and the valley and the hills hide. The vapors still hang like silver tufts on the cold green grass.

"Bing! Bing! The sun's first ray—

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another ray—the little flowers seem to be waking in a joyful mood and each one of them is drinking its drop of quivering dew. The leaves feel the cold and are moving to and fro in the morning air. Under the leaves the unseen birds are singing—it sounds as if the flowers were singing their morning prayer. Amoretti with butterfly wings are perching on the meadow and set the tall grasses swaying.

"We can see nothing, but the landscape is there, all perfect, behind the translucent gauze of the mist which rises—rises—rises, inhaled by the sun, and, as it raises, discloses the river silver-scaled, the meads, the trees, the cottages, the vanishing distance. We can distinguish now all that we de-vined before. Bam! The sun is risen. Bam! A peasant crosses the field, and a cart and oxen. Ding! Ding says the bell of the ram who leads the flock of sheep. Bam! All things break forth into glistening and glittering and shining in a full flood of light, of pale, caressing light. * * * It is adorable and I paint—and I paint. * * * Boum! Boum! The sun grows hot—the flowers droop—the birds are silent. Let us go home! We can see too much now. There is nothing in it.

"And home we go and dine and sleep, and dream; and I dream of the morning landscape. I dream my picture and presently I will paint my dream."

The way he described the evening is equally beautiful:

"Bam! Bam! The sun is setting now in an explosion of yellow, of orange of cherry, of purple. Ah, that is pretentious and vulgar—I don't like that; I shall wait and so will the patient, thirsty flowers who know that the sylphs of evening are presently coming to sprinkle them with vapors of dews from their invisible arrosols; and, at last, with a final Boum! of purple and gold the sun sinks out of sight. Good Lord! how beautiful it is! The sun has disappeared and the softened sky has only left behind a gauzy, vaporous tint of the palest lemon, which melts and blends into the deep blue of the night, through all the tones of deepening green, of pallid turquoise, of unconceivable fineness, of a delicacy fluid and inappreciable.

"We can see it no more; we feel that it is all still there, while the fresh evening breeze is sobbing through the foliage, and the birds—those voices of the flowers—are singing Evening Prayer.

"Bing! a star in the sky pricks its portrait in the pond—upon a second

star—three—six—twenty stars! All the stars in the sky have made a tryst to meet in this fortunate pond! All around now is darkness and gloom—only a little lake is sparkling—an ant-heap of busy stars.

"The sun has gone to rest. The inner sun—the sun of the soul—the sun of art is rising. Good! My picture is made!"

The Lady Farmer's Institute.

We have our meetings the first Wednesday of every month. Our election of officers was the first Wednesday of December. Mrs. Jennie Cook was elected president; Mrs. John Sanders, vice-president, and Mrs. Zela Jester, secretary and treasurer. We have taken "Domestic Science," literature, and a sprinkling of art for our year's work. By varying the program somewhat the members are more interested. The past year we have had most enjoyable meetings. Our membership is limited to eighteen, that being as many as one hostess cares to entertain; and the first meeting in January we have the gentleman meet with us. They also take part in the program for that day.

MRS. JENNIE COOK.

Marysville, Kan.

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(Continued from page 1297)

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Iowa	3,016.92
Ohio	2,948.33
Kansas	2,851.43
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Missouri	2,708.33
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Ontario	4,154.30
Ohio	4,068.33
Iowa	3,957.64
Kansas	3,765.75
Texas	3,641.46
Michigan	3,637.16

Hannibal Drew a Crowd.

Hannibal, which won the grand championship of German coachers, was the star attraction of the arena at the International Live-Stock Exposition yesterday. Ten thousand persons were in the amphitheater in the afternoon when Judge Richard P. Steriker pinned the blue ribbon in the halter of this proud beast. A. B. Crouch, Lafayette, Ind., owner, shared in the honors with the horse. Hannibal is a dark bay with black points. He is eight years old, and for a horse of the Oldenberg strain, he is regarded as finer than the average, because of his excessive vim and excellent carriage of the head. "He has natural action and carries individuality which is rarely found in a horse of this breed," the judge said. Hannibal has won blue ribbons during the past four years, and has always been regarded as a promising candidate for grand championship honors at the International exhibit.

HOW THE SHOW CATTLE DRESSED.

The following shows the percentage of dressing of the show cattle killed by local buyers:

	Slaughter	Per
Breed.	Weight.	Cost. Cent.
C. Krambeck, Angus.....	1524	\$8.65 64.5
Steiner, Herefords.....	1201	7.40 63.6
D. W. Black, Tex. Here.....	1172	7.25 65.1
H. J. Miller, Herefords.....	990	4.90 62.8
H. Hagler, Herefords.....	1109	6.65 60.4
E. P. Hall, Angus.....	1190	7.35 63.6
J. D. Waters, Shorth's.....	1292	6.90 64.2
J. W. Crabb, Shorth's.....	1653	6.60 63.1
Hill Bros., Angus.....	1510	6.00 61.0
C. M. Reynolds, Here's.....	1288	6.25 62.5
J. F. Forney, Heref's.....	906	4.90 56.7
H. G. Keays, Shorth's.....	1573	6.75 62.5
J. B. Camp, Heref's.....	1120	6.75 61.5
Funk Bros., Heref's.....	1644	6.60 64.6
Miller Bros., Heref's.....	1530	6.50 63.2
J. G. Imboden, Heref's.....	1406	6.20 62.2
J. D. Rogers, Angus.....	1144	6.70 62.0
S. R. Burnett, Texas.....	1505	5.85 61.5
M. G. Davis, Angus.....	1059	6.65 62.2

THE INTERNATIONAL LIVE-STOCK EXPOSITION.

At the annual meeting of the International Live-Stock Exposition, it was decided to secure new articles of incorporation for the purpose of remedying technical defects in the present articles. The old officers were re-elected as follows:

Officers.—J. A. Spoor, president; A. H. Sanders, vice-president, A. J. Lovejoy,

vice-president; W. E. Skinner, general manager and secretary; Mortimer Levering, treasurer.

Directors.—Arthur G. Leonard, Chicago; G. Howard Davison, Millbrook, N. Y.; G. B. VanNorman, Chicago; M. F. Buel, Chicago; Rich. Gibson, Delaware, Ont.; A. J. Lovejoy, Roscoe, Ill.; E. W. Bowen, Delphi, Ind.; John Clay, Jr., Chicago; F. W. Harding, Waukesha, Wis.; O. E. Bradfute, Xenia, Ohio; Wirth Dunham, Wayne, Ill.; J. W. Martin, Richland City, Wis.; Alvin Sanders, Chicago; Murdo Mackenzie, Trinidad, Colo.; Peter Jansen, Jansen, Neb.; C. F. Curtiss, Ames, Ia.; Jno. S. Cooper, Chicago; R. B. Ogilvie, Chicago; Thos. Clark, Beecher, Ill.; Overton Harris, Harris, Mo.; Edward F. Swift, Chicago; Mortimer Levering, Chicago; F. J. Hagenbarth, Salt Lake City, Utah.

Executive Committee.—J. A. Spoor, W. E. Skinner, Alvin H. Sanders, Prof. C. F. Curtiss, A. J. Lovejoy.

Finance Committee.—Mortimer Levering, J. S. Cooper, Thos. Clark. Veterinary Board.—Dr. O. E. Dyson, Chicago, Ill.; Dr. M. E. Knowles, Helena, Mont.; Dr. A. T. Peters, Lincoln, Neb.

REGISTRY ASSOCIATION MEETINGS.

With the exception of the Hereford Association, which has its headquarters and its annual meetings at Kansas City, practically all of the larger breeding associations hold their annual meetings at Chicago during the International. Many of these meetings are held at the pure-Bred Record Building at the Stock Yards, which was constructed especially as a headquarters building for these associations and which is now occupied by their officers. Several of the meetings were held up town on account of greater convenience. Following is given for reference the list of officers elected and a few other facts concerning the various associations.

Polled Herefords.

The following officers were elected for the ensuing year: President, Col. S. W. Anderson, Blaker Mills, W. Va.; vice-president, J. M. Baker, Nelson, Mo.; secretary, A. E. White, Chicago; treasurer, Kent Robinson, Kansas City.

The following are directors: W. W. Guthrie, Atchison, Kan.; Col. S. W. Anderson, Blaker Mills, W. Va.; J. M. Baker, Nelson, Mo.; C. T. Mercer, Lenox, Ia.; D. McCarthy, Winthrop, Ia.; H. W. Dieter, Montfort, Wis.; L. K. Robinson, Kansas City, Mo.

Mr. McCarthy and Mr. Mercer report the demand very strong for this breed of cattle in their section, and say that they could sell many more than they have.

Aberdeen-Angus.

Several hundred adherents of the Aberdeen-Angus breed of cattle met in annual conference at the Palmer House and elected the following officers: President, Judge J. S. Goodwin, Chicago; vice-president, C. J. Martin, Churdan, Ia.; secretary and treasurer, Thos. McFarlane, Chicago. Three directors were elected, as follows: Judge J. S. Goodwin, Illinois; C. E. Marvin, Kentucky; Geo. Kitchin, Jr., Missouri.

The report of the executive committee showed the association in a most prosperous condition. There are at present 85,462 cattle recorded in the herd book. There were 1,274 more entries than last year. The total appropriation for 1906 for premiums is \$12,000, of which the International gets \$4,500. There were 111 new members taken into the association during the past year.

Shorthorns.

At the annual meeting of the American Shorthorn Breeders' Association the organization was shown to be in a prosperous condition.

The past year has been successful, receipts showing an increase of \$11,000 over 1904. The surplus is \$115,000.

A determination was unanimously reached to encourage breeders of milking Shorthorns. With this object registry rules will be relaxed. Any animal tracing back to the first of 40 volumes will hereafter be eligible, the present rule permitting but 20 volumes.

The secretary was instructed to give special developing tests to any Shorthorn cow producing 8,000 pounds or more milk a year.

Speakers were John Dryden, of Canada, C. A. Saunders, of Iowa, Joseph E. Wing, of Ohio, and ex-Senator Harris.

President Lockridge occupied the chair. Abe Renick, of Kentucky, and T. J. Wornall, of Missouri, were elected directors. W. I. Wood, of Ohio, succeeds the late C. L. Gerlaugh on the directory.

Thos. B. Freshney, of England, made an address.

The reciprocity program was endorsed.

Galloways.

There was a good crowd of Galloway men at the meeting in Secretary Gray's office in the Record Building.

The business done for the year showed an increase of 35 per cent over last year, which was very gratifying to the members, and was a strong indication that this breed was becoming very popular with stockmen. A new constitution and by-laws was adopted for the main purpose of putting closer restrictions on registrations.

The following officers were elected for the coming year:

President—C. W. Leslie, Ft. Wayne, Ind.

Vice-Presidents—J. E. Ewing, Youngs-

town, Ohio; E. L. Davis, Davisburg, Mich.; C. S. Hechtner, Princeton, Ill.; C. D. McPherson, Fairfield, Ia.

Secretary—Treasurer—Charles Gray, Chicago.

A. M. Thompson, R. M. Brown and Geo. Bernard were elected directors for three years. The executive committee consists of G. W. Lindsay, Marion Parr, A. M. Thompson, R. W. Brown, G. M. Leslie.

Polled-Durhams.

A meeting of the American Polled-Durham Breeders' Association took place at the Saratoga Hotel.

Motion was made to amend Rule 10 so that it shall read: "On and after Jan. 1, 1907, animals to be eligible for entry in the American Polled-Durham Herd Book must be at least six months old; must be naturally hornless, and must be the produce of sires and dams already of record in said Herd Book."

After a discussion the amendment was defeated by an overwhelming majority. It was pointed out that the breed is not strong enough, at this time, to "rest on its own foundations," and that it is absolutely necessary to continue to use the best strains of Shorthorn blood.

The following officers were elected: President—T. A. Murray, Mazon, Ill. Secretary and Treasurer—Fletcher S. Hines.

Directors—J. Martz, Greenville, Ohio, and L. G. Shaver, Kalona, Ia.

Red Polls.

Cattle breeders who pin their faith to the Red Polled cattle, met in annual session and elected three directors, as follows:

Geo. B. Buck, of Illinois; W. H. Heil, Nebraska, and J. H. Jennings, of Texas.

There was a good attendance and 20 new members were enrolled.

President Henderson said that the demand for this breed of cattle was growing stronger and that all the Central States were now represented in the membership and the demand from the Southwest was greater than ever before.

Belgians.

The annual meeting of the Belgian Horse Breeders was held Wednesday evening at the Grand Pacific Hotel. Peter Hopley, who is now in Europe, was re-elected president of the association; John Crouch, Lafayette, Ind., secretary, and J. D. Connor, treasurer.

Directors were elected as follows: O. R. Champlin, Clinton, Ia., and A. B. Holbery, Greeley, Ia., H. Wolfe, Wabash, Ind., and George Crouch, Lafayette, Ind., were made members of the executive committee.

Shires.

At the annual meeting of the Shire Breeders' and Importers' Association the following officers were elected:

President—J. G. Truman, Bushnell, Ill. Vice-President—Lew W. Cochran, Crawfordsville, Ind.

Treasurer—A. L. Sullivan, Lincoln, Neb.

Secretary—Charles Burgess, Winona, Ill.

The financial affairs of the association were in good condition and a liberal appropriation was passed for special premiums, to be awarded to the Shire exhibit at the 1906 International.

Percherons.

The Percheron Society of America held its annual meeting with a large attendance. Directors were elected for the ensuing year as follows: H. G. McMillan, Rock Rapids, Iowa; C. O. Keiser, Keota, Iowa; A. P. Nave, Attica, Ind.; Charles Taylor, Williamsville, Ill.; James G. Boyd, Milwaukee, Wis.; W. E. Prichard, Ottawa, Ill.; H. W. Patterson, Worthington, Minn.; Henry Avery, Wakefield, Kan.; W. S. Dunham, Wayne, Ill.; H. A. Briggs, Ekhnor, Wis.; John R. DeLacey, Northfield, Minn.

The directors elected officers for the ensuing year as follows: President, H. G. McMillan; vice-president, H. A. Briggs; secretary, George W. Stubblefield; assistant secretary, A. Stewart; treasurer, John L. DeLacey.

Shetland Ponies.

A meeting of the members of the Shetland Pony Club was held in the Record Building and was largely attended. This association is in a flourishing condition and is enrolling new members rapidly. There were 24 added to the list this year, which makes the total membership 261. Receipts for the year were \$1,109.

Officers were elected as follows: President, J. J. Milne, Monmouth, Ill.; vice-president, Robt. Lilburn, Emerald Grove, Wis.; secretary and treasurer, Mortimer Levering, Chicago.

Cotswolds.

The Cotswold Registry Association elected these officers:

President, T. Hardy Shore, Glanworth, Ont.; vice-president, D. B. Watt, Xenia, Ohio; secretary-treasurer, F. W. Harding, Waukesha, Wis.; board of directors, D. C. McCrae, D. B. Watt, D. C. Lewis, F. W. Harding.

Lincolns.

The National Breeders' Association elected these officers:

President, Robert Knight, Marlette, Mich.; vice-president, R. S. Robson, London, Ont.; secretary, Bert Smith, Charlotte, Mich.; directors, A. A. Arnold, Wisconsin; E. S. Parkinson, Ontario; R. S. Robson, Ontario.

Shropshires.

The twenty-first annual meeting of the American Shropshire Breeders' As-

sociation was held in the office of Secretary Levering, in the Record Building. The attendance was large and numbered 175.

Dr. G. Howard Davison, of Millbrook, N. Y., was re-elected president; R.

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HELENA, MONTANA.

sociation was held in the office of Secretary Levering, in the Record Building. The attendance was large and numbered 175.

Dr. G. Howard Davison, of Millbrook, N. Y., was re-elected president; R.

ard Gibson, Delaware, Ont., vice-president; Mortimer Levering, Chicago, secretary; George Allen, Lexington, Neb., and Acker Ruland, Lockport, Ill., were chosen directors.

New members received during the year were 180, transfers 2,750 and 15,300 certificates were issued during the year. The membership now is 3,020.

The resolution introduced by the Hon. John Dryden, of Canada, regarding the registration of Canadian sheep in this country, was referred to the executive committee.

Cheviots.

Prof. Plumb, having called the meeting to order, read several communications from absent members pertaining to rules in regard to registration of sheep having scurs or embryo horns, which resulted in a motion by M. P. Lantz that a rule adopted one year ago be amended, to the effect that lambs having scurs not exceeding one inch in length shall be eligible to record, which motion received the support of the members present.

The election of officers had previously been made by mail ballot at the office of the secretary, F. E. Dawley, Fayetteville, N. Y., with the following result: Prof. C. S. Plumb, president; M. P. Lantz, vice-president; F. E. Dawley, secretary-treasurer.

INTERNATIONAL PURE-BRED SALES.

During the week a series of sales of Shorthorns, Aberdeen-Angus, Herefords and Galloways was held in the Dexter Park Pavillion, as has been usual in past years. These sales were quite satisfactory to the breeders as a rule, and served to show very distinctly that the breeding of pure-bred cattle is a good business.

Shorthorns.

In the Shorthorn sale the top bulls averaged \$434, and the 48 cows and heifers averaged \$289; general average, \$310. The top price paid for a bull was \$1,000, which was brought by Whitehall Count, bred by E. S. Kelly of Ohio. The top price paid for a cow was \$1,025, which was given for Anoka Missie, bred by Frank D. Harding, of Wisconsin. The \$1,000 bull mentioned above was sired by Whitehall Sultan, so that really F. W. Harding gets credit for the top prices in both sexes. The buyers present were from everywhere and this perhaps more than any one thing shows the true international character of the show.

Aberdeen-Angus.

The Aberdeen-Angus sale was also a success. Their friends and admirers were out in force and the bidding was spirited. The highest-priced female was Gay Barbara by Rosegay, who brought \$405. The highest-priced bull was the young Blackbird bull, Rosegay Lad, who brought \$360, while the Lady Fanny bull, Lord Roberts, brought \$325. The 18 bulls in the offering averaged \$160, and the 49 cows and heifers average \$138; a general average of \$144.

Herefords.

All the sales at Dexter Park were well attended, and the bidding was more or less spirited. The Hereford breeders were also successful and disposed of 58 animals for a total of \$1,650. Twenty-six of these were bulls. Averaged \$215, and 32 cows and heifers averaged \$158; a general average of \$185. Distributor, a son of Disturber, a Beau Donald bull, was the highest-priced bull in the offering. He was sold for \$600.

Galloways.

One of the great features of the Galloway sale was the fact that both the Grand Champion bull and the Grand Champion cow were sold. The champion bull, Worthy 3d, was contended for in a spirited manner until the \$1,000 mark was reached, when some of the bidders dropped out. He was finally taken by Geo. Bernard, of Estonville, Colo., for \$1,250. Worthy 3d has the greatest show record of any bull in the breed and it is only lately that he has been defeated by Geo. Lindsay's bull, Pat Ryan, of Red Cloud, who is younger. The highest priced female in this sale was the grand champion Evaline 2d of Avondale 20124, who went to the old-time breeder, O. H. Swigert, of Champaign, Ill., for \$550. She was champion at the Lewis & Clark Exposition. Some other prices paid for animals at this show were \$595, for the 2-year-old King's Pride 22766; \$305 for Favorite 16th of Lockport (17027) 21205.

INTERNATIONAL AWARDS IN FAT CATTLE.

SHORTHORNS.

Champion steer, spayed or martin heifer—First, Trout Creek Wonder, Purdue University, Lafayette, Ind.

Lot of three head owned by one exhibitor, consisting of one 2-year-old, one yearling and one calf—First, Kansas Agricultural College, Manhattan, Kan.; second, H. J. Sconce, Sidell, Ill.; third, A. R. Renick, Winchester, Ky.; fourth, W. F. Christian & Son, Indianapolis, Ind.

Shorthorn special, 2 years and under 3—First, Hub and Twist, J. G. Robbins & Son, Horace, Ind.; second, Fred, William Smiley, Malcom, Ia.; third, Barter, J. R. Peak & Son, Winchester, Ill.; fourth, Maple Grove Lad, U. Z. Green, Indianapolis, Ind.; fifth, Jack, C. F. Rice, Indianapolis, Ind.

Shorthorn—Class 120—Steer, spayed or martin heifer, under 1 year—First,

Sleepy Lad, J. G. Robbins & Son, Horace Ind.; second, My Hope, R. Renick, Winchester, Ky.; third, Lord Hanna, Kansas Agricultural College; fourth, Mill Spud, H. J. Sconce, Sidell, Ill.; fifth, W. F. Christian & Son.

Aberdeen-Angus.

Steer or heifer, 2 years and under 3—First, Heather Beau, M. P. & S. E. Lantz, Carlock, Ill.; second, Nobility, M. A. Judy, Beecher, Ill.; third, Rock Creek Mark, Purdue Experiment Station, Lafayette, Ind.; fourth, Lucky Boy, Stanley R. Pierce, Creston, Ill.; fifth, Driftwood, A. C. Binnie, Alta, Ia.

Steer or heifer, 1 year old and under 2—First, Ruby Zenoleum, Stanley R. Pierce, Creston, Ill.; second, Foster's Zenoleum, Lew Kerr, Newton, Ind.; third, Sun Flower Advance, W. J. Miller, fourth, Black Jack, Stanley R. Pierce; fifth, Exillo, Charles J. Orr, Peoria, Ill.

Steer or heifer under 1 year—First, Andy, Stanley R. Pierce, second, Syberian 2d, M. P. & S. E. Lantz; third, Foster Zenoleum 2d, Lew Kerr, Newton, Ind.; fourth, Quisiana of Meadow Brook, D. Bradfute & Son, Cedarville, Ohio; fifth, Metz Prince, W. J. Miller, Metz, Ia.

Champion steer or heifer—Won by Ruby Zenoleum, Stanley R. Pierce.

Herefords.

Steer, spayed or martin heifer, 2 years and under 3—First, Silver Lad, S. L. Brock, Macon, Mo.; second, Burnside, Cargill & McMillan; third, Cherry Lad, J. H. & J. L. Van Natta; fourth, Sirloln, Texas Agricultural Experiment Station, College Station, Texas; fifth, Acorn, B. & W. George, Aurora, Ill.

Steer, spayed or martin heifer, 1 year and under 2—First, Holland Perfection, Iowa Agricultural College, Ames, Ia.; second, Disperser, S. L. Brock, Macon, Mo.; third, Hugo, J. H. & J. L. Van Natta; fourth, Puritan 2d, Cargill & McMillan; fifth, Laurel Standard, Iowa Agricultural College.

Steer, spayed or martin heifer under 1 year—First, Zenoleum Prince, H. J. Fluck, Goodenow, Ill.; second, Fair Lad 1st, Cargill & McMillan; third, Disclosure, S. L. Brock, Macon, Mo.; fourth, Cherry Lad 2d, J. H. & J. L. Van Natta; fifth, Jewel's Duke, Avery & Hines Co., Alta Pass, Ill.

Galloways.

Steer, spayed or martin heifer, 1 year and under 2—First, Lavonia's Druid, O. H. Swigert, White Heath, Ill.; second, Roger of Brookside, Ohio State University, Columbus, Ohio; third, Wanda's Druid, O. H. Swigert; fourth, Royal Chancellor, C. E. Clarke, St. Cloud, Minn.; fifth, Spot, O. H. Swigert.

Steer, spayed or martin heifer, under 1 year—First, Buster Brown, W. M. Brown & Son, Carrollton, Mo.; second, Captain Zenoleum, O. H. Swigert; third, Captain of Avondale, O. H. Swigert.

Red Polled.

Steer, spayed or martin heifer under 1 year—First, Cass, F. B. Turnbull, Cedarville, Ohio; second, Ohio Red Quality, Ohio State University; third, Tip Top, F. B. Turnbull; fourth, General, J. H. Crowder & Son, Bethany, Ill.; fifth, Christo, Borden Stock Farm, Tonti, Ill.

Grades and Cross-Breds.

Steer or heifer, 2 years and under 3—First, Adkens S., J. R. Peak & Son; second, Up-to-Date, Amos Osborn & Sons, Culver, Ind.; third, Tama Jim, Iowa Agricultural College; fourth, Uncle's Choice, Charles C. Judy, Tallula, Ill.; fifth, Trix, William Smiley.

Steer or heifer, calved between Sept. 1, 1903, and Jan. 1, 1904—Scotch Highland, S. L. Brock; second, Shawnee Boy, Keer & Coon, Newton, Ind.; third, Andy 2d, Stanley R. Pierce; fourth, Granger, A. P. Grout, Winchester, Ill.; fifth, Zenoleum Jerry, W. J. Miller, Metz, Ia.

Steer or heifer, calved between Jan. 1, 1904—First, Tony, T. H. Brent, Smithshire, Ill.; second, Kansas Laddie, Kansas Agricultural College; third, Zenoleum King, Iowa Agricultural College; fourth, Improver Second, J. C. Andras, Jr., Manchester, Ill.; fifth, Briton Boy; Frederick E. R. Allbright, Rossville, Ill.

Steer or heifer, calved between Sept. 1, 1904, and Jan. 1, 1905—First, Zenoleum Black Prince, W. J. Miller; second, Prince Zenoleum, Lew Kerr, Newtown, Ind.; third, Hub and Twist, J. C. Robbins & Sons, Horace, Ind.; fourth, Rose Hummer, A. R. Haven, Greenfield, Ill.; fifth, Ohio Nomination, Ohio State University.

GOSSIP ABOUT STOCK.

H. E. Lunt's sale of Poland-China sows will be held at Burden, Kans., Jan. 17, 1906. Marshall Bros. will also consign a few to this sale. Send for catalogue and arrange to attend.

Readers of the Kansas Farmer should write to H. G. Phelps & Co., publishers of Farmers' Account Book, Bozeman, Montana, before Feb. 1 for a circular describing their book, and receive a special coupon worth \$1.25.

Marshall Bros' bred-sow sale of Duroc-Jerseys will occur Jan. 18, 1906, at Burden, Kans. Marshall Bros. own three of the best bred and most popular boars of the breed in the State, and their offering will be appreciated by the very best breeders. Write Marshall Bros. for a catalogue, mentioning the Kansas Farmer.

The J. R. Young On and On Sale at Richards. Mo. was a success in every



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sense of the word. A splendid crowd of Missouri and Kansas breeders were in attendance and the auctioneers and fieldman represented many of the breeders of Oklahoma, Indian Territory, Kansas, Iowa, Illinois and Ohio. Many of the choicest of the offerings were purchased by them for breeders not in attendance. While the sale was very satisfactory and the general average very good, it was not without some very desirable bargains.

The entire 60-head brought \$9,257.50; an average of \$145.30. Half of the offering were 1905 farrow, making this the very top of the year.

A. P. Wright held a very successful sale at Park Place Farm, Valley Center, Kans., Dec. 21, selling 40 head at an average of nearly \$30. The top of the sale was the good herd boar, Prince Proud, who went to Dyck Bros. at Whitewater, Kans., at \$85. This was the bargain of the sale and we predict a bright future for this good new herd with this great boar at the head. Ed Pray, at Wichita, got an excellent sow at \$50; H. E. Lunt another, possibly the best of the sale, at \$42. Other buyers were W. W. Haines and J. A. Bass of Pratt, Kans.; Mr. Vanripper, Arlington, Kans.; W. R. Peacock, Sedgwick, Kans.; L. L. Cress, Valley Center, Kans.; C. A. Shields, Derby; G. M. Hebbard, Peck, and C. R. Bowman, Valley Center.

Mr. Stallion Buyer: It is good business to know things. Why not visit "The Home of the Winners" of Frank Iams, St. Paul, Nebr., and see for yourself, (take no "knockers" or bunco salesmen's word). Go and see his 151 black Percherons, Belgians and coach stallions. They are a "horse show" worth going 2,000 miles to see. It will be the very best investment you have ever made, and will open your eyes to see the immense barns "filled to the roof" with first-class, big, wide-as-a-wagon black boys. They are all in the pink of condition, as Iams gives his personal attention to his vast business. If you visit Iams, you will get enthused with his grand display of first-class "peaches and cream" stallions that Iams is famous for importing, breeding and selling at \$1,000 and \$1,500. Guaranteed better than any stallion sold to "Farmers' Stock Co's." at \$2,500 to \$5,000. If you do not find this true, as well as every statement in Iams' add or catalogue, you will get the \$100 he hangs up, (you the judge). Iams positively has "the goods" and is cutting a "wide swath" selling "top notchers" at let-live prices and saving thousands of dollars to Stockmen, in commissions and middle-man's profits, and sells a class of draft and coach stallions that do not need to be "peddled" or put up at "public auction" to be sold. Mr. Horseman! Will you take Iams tip? See his stallions. He will "press the button" that will make you do business. He buys stallions by train load, speaks the languages, knows where and how to buy stallions right, get cheap ocean freight, lives where feed is very cheap, sells his stallions at his home barn himself without aid of any salesman on earth, has stallions so good and cheap that they are the best salesmen in the land, they do their own talking and sell themselves. Our illustration is "Iams' Gigolo" (53894) Black Percheron, 3-years-old, weight 2,200 pounds. He is a "swell black boy," an ideal drafter, a real finished, smooth, typical, wide-as-a-wagon kind, with big 14-inch bone; a high headed, sensational fast moving "ripper" that "storms the castle" and makes all the "Georgie dears" "rubber" and say: Iams is an up-to-date horseman. He always has "the goods" and he got the ribbons and the "dough" at the Iowa and Nebraska State Fair of 1905. He will get your money if you visit him, as he has on his "selling clothes" and they fit "all the boys". Get next to Iams and you will have a "smile on that never will rub off." Write for his eye-opener and greatest horse catalogue on earth. It's a whole bundle of bundles of money to you. Don't miss it or Iams.

WANTED HIDES & FURS

I am a wholesaler of hides, wool and furs, consequently I can give you a higher price than you can get from an agent who is buying for a wholesaler and who must have a commission for his work.

I CHARGE NO COMMISSION

but buy your hides and furs outright at the highest prevailing wholesale price. No shipment too small or too large for me to handle. Write for shipping tags and price list.

JACOB G. HOLZ, 1004 North 16th Street, Omaha, Nebraska.

THE LARGEST AND BEST LINE OF WELL DRILLING

MACHINERY in America. We have been making it for over 20 years. Do not buy until you see our new Illustrated Catalogue No. 41. Send for it now. It is FREE.

Austin Manufacturing Co., Chicago

WELL DRILLING MACHINES

Over 70 sizes and styles for drilling either deep or shallow wells in any kind of soil or rock. Mounted on wheels or on skids. With engine or horse power. Strong, simple and durable. Any mechanic can operate them easily. Send for catalog.

WILLIAMS BROS., Chicago, N. Y.

\$10.00 Sweep Feed Grinder.

\$14.00 Galvanized Steel Wind Mill.

We manufacture all sizes and styles. It will pay you to investigate. Write for catalog and price list.

CURRIE WIND MILL CO.,
Topeka, Kansas.

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ACCURATE DURABLE
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FREE

Genuine Calendar Watch keeps correct time and gives day of Week, Month, changes of Moon.

To quickly introduce the Celebrated Electric Balm Toilet, Bath and Complexion Soap we offer these rare and expensive Calendar Watches **ABSOLUTELY FREE** to every one answering this advertisement. We also send package of Soap. Enclose Stamp for postage. Address, Standard Soap Works, New York City, P.O. Box 105 Dept. 100 A

VIRGINIA FARMS

\$8 per Acre and up

with improvements. Good productive soil, abundant water supply and best climate on earth. Near railroad and good markets with best church, school and social advantages. For list of farms, excursion rates and our beautiful pamphlet showing what others have accomplished, write to-day to F. H. LA BAUME, Agri. and Ind. Agt., Norfolk & Western Ry., Box 65 Roanoke, Va.

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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. We deliver this book postpaid, including the Kansas Farmer one year, both for only \$2.50. Address,

KANSAS FARMER CO.,
Topeka, Kans.

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."

Horse With Discharge From Nose.—My horse has a running at the nose since last spring; the discharge is white in color, and sometimes runs only when his head is down. When he drinks there seems to be a rattling in the head. His appetite is good and coat looks well. What is the trouble?

J. W. R.

Answer.—From the symptoms you give I would judge that the horse had inflammation in the pouch back of the throat, and when the head is lowered the fluid runs out of this pouch into the throat and then out through the nose. There is not much you can do for this trouble, except to apply a stimulating liniment to the throat.

Worms in Colts.—I have a bunch of colts about 7 months old that are very wormy. The colts have been on feed away from the mares about four months. They pass many worms and are not doing very well. Please give me some good remedy to rid them of worms, and to feed and treat them to get them into a good condition.

Wilsey, Kan. A SUBSCRIBER.

Answer.—Give each colt 6 ounces of turpentine in four doses, 6 hours apart; give each dose in half a pint of raw linseed oil. Then give each of the colts the following tonic: Pulverized nux vomica, 2 ounces, pulverized gentian root, 4 ounces, iron sulphate, 6 ounces, linseed meal, 15 pounds. Mix and give 1 tablespoonful night and morning in ground feed.

Sores on Stallion's Legs.—I have a large imported Shire stallion that has a breaking out on his legs, that itches and smells bad unless kept clean. I have been using sulphate of zinc and sugar of lead, but it does not seem to cure them. He has much hair on his legs. What is the disease and how shall I treat it?

J. C. W.

McCracken, Kan.

Answer.—We have sent you under separate cover a press bulletin on the preparation and use of lime and sulphur dip which we think will be proper for the stallion.

C. L. BARNES.

Ailing Mare.—I have a mare, rather old (in foal), that has a swelling on one side of the udder; the swelling extends out on the belly. What is the cause and how should it be treated?

What would you recommend as a good condition powder for an old or run-down animal, also a reliable worm powder? I have not much faith in stock foods. How would linseed-meal, black antimony, bloodroot and bran do?

E. H.

Shields, Kans.

Answer.—The trouble that you mention with the mare may come from some injury to the udder. Probably poulticing the affected part with cotton saturated in water as hot as the mare can stand, will do more than anything that I could suggest.

In regard to a condition powder, the following makes a most excellent tonic: Iron sulphate, 6 ounces; nux vomica, 2 ounces; pulverized salt, half a pound; sulphur, 1 pound; glycyrrhiza root, 10 pounds; linseed meal, 15 pounds. Mix, and give a tablespoonful night and morning in ground feed. If the worms are affecting the animal

Soda Crackers and—

anything you choose—milk for instance or alone.

At every meal or for a munch between meals, when you feel the need of an appetizing bite to fill up a vacant corner, in the morning when you wake hungry, or at night just before going to bed. Soda crackers are so light and easily digested that they make a perfect food at times when you could not think of eating anything else.

But as in all other things, there is a difference in soda crackers, the superlative being

Uneeda Biscuit

a soda cracker so scientifically baked that all the nutritive qualities of the wheat are retained and developed—a soda cracker in which all the original goodness is preserved for you.

NATIONAL BISCUIT COMPANY

5¢

Miscellany

Alcohol for Industrial Uses.

The following resolutions were unanimously adopted by the National Grange of the Patrons of Husbandry, representing 800,000 farmers, at the thirty-ninth annual convention at Atlantic City, N. J., November 20, 1905:

WHEREAS, Alcohol is a material necessary for use in manufacturing many important articles of commerce, and

WHEREAS, Our internal revenue laws, contrary to the policy of all other great commercial Nations, make no distinction between alcohol used as a beverage, and that used for industrial purposes, a tax of \$2.07 per gallon being imposed on all high-proof alcohol, and

WHEREAS, It has been found entirely practicable in Germany, France, Great Britain and other foreign countries, which are our competitors for the trade of neutral markets, to exempt from taxation alcohol rendered unfit for internal use, while taxing beverage spirits, and

WHEREAS, The removal of the tax from industrial alcohol would greatly reduce the price of that material, and would make possible the establishment of many new industries for the manufacture of articles now imported from foreign countries, thus giving additional employment to American workers, and creating larger domestic markets for our farm products, and

WHEREAS, It has been demonstrated

in Germany, France and other foreign countries that alcohol is an excellent substitute for gasoline as a motor fuel for running all kinds of farm machinery, and with the tax removed immense quantities would be used for this purpose, and for heating, cooking and lighting, and

WHEREAS, The demand for alcohol, consequent on its general consumption for industrial purposes, would create large additional markets for our surplus corn and other farm products from which alcohol is distilled;

RESOLVED, That the National Grange, representing the organized farmers of the United States, urgently requests the removal of the internal-revenue tax from alcohol rendered unfit for use

as a beverage, and urges upon Congress the necessity for the immediate enactment of legislation for this purpose, and the Legislative Committee is hereby directed to urge such modification of the revenue laws as will carry out the purpose of these resolutions.

Kansas Farmer —And— McClures Magazine

(one of the finest periodicals printed)
Both One Year for \$1.75
Received at this office
Kansas Farmer Co., Topeka, Kans.

A Real Rubber Boot every inch of it

This boot is especially made for hard wear. Only the best new rubber and the best duck are used, put together in such a way as to give the greatest strength where it is needed.

Security LYCOMING DUCK BOOT

can't afford to wear out as soon as the ordinary kind—it's got a reputation to sustain. We strongly recommend "Security Boots" to Farmers, Irrigators, Stockmen, Fruit-growers and every man who needs a good boot. Like everything else, it will wear out, but it is built to give the greatest amount of satisfaction possible. Boots made of old rubber cannot stand the wear—there's a dollar's worth of pure rubber and good duck for every dollar spent in the "Security." All "Lycoming" Rubber Boots and Shoes are of the highest quality only.

Go to your dealer and try on a pair. Note carefully how well made they are. If your dealer does not have them in stock he can easily get them for you.



Durability

ST. LOUIS, U.S.A.



Grange Department

"For the good of our order,
our country, and mankind."

Conducted by George Black, Olathe, Secretary
Kansas State Grange, to whom all correspondence
for this department should be addressed.
News from Kansas granges is especially solicited.

NATIONAL GRANGE

Master..... Aaron Jones, South Bend, Ind.
Lecturer..... N. J. Batchelder, Concord, N. H.
Secretary..... C. M. Freeman, Tippecanoe City, Ohio

KANSAS STATE GRANGE

Master..... E. W. Westgate, Manhattan
Overseer..... A. P. Beardon, McLouth
Lecturer..... Ole Hilmer, Olathe
Steward..... B. C. Post, Spring Hill
Assistant Steward..... Frank Wiswell, Ochiltree
Chaplain..... Mrs. M. J. Ramage, Arkansas City
Treasurer..... Wm. Henry, Olathe
Secretary..... George Black, Olathe
Gatekeeper..... G. F. Kyser, Newton
Ceres..... Mrs. M. I. Allison, Lyndon
Pomona..... Mrs. S. M. Phinney, McLouth
Flora..... Mrs. S. J. Lovett, Larned
L. A. S..... Mrs. Lola Radcliffe, Overbrook

EXECUTIVE COMMITTEE

Henry Rhoades, Chairman..... Gardner
E. W. Westgate..... Manhattan
Geo. Black, Secretary..... Olathe
J. T. Lincoln..... Madison
O. F. Whitney..... Topeka, Station A

STATE ORGANIZER

W. B. Obryhim..... Overbrook

Annual Address of E. H. Westgate,
Master of the Kansas State
Grange.

Officers and Members of the Kansas
State Grange: I congratulate you all
for the honor conferred upon you by
your fellow members of our State and
subordinate granges.

We have been chosen to perform the
work of this session, and upon us in-
dividually and collectively rests the re-
sponsibility for whatever may be done
or left undone, that will or would pro-
mote the welfare of our order and ac-
complish the objects for which we
labor, viz: the betterment of the home,
a "square deal" for all beneath our
Nation's flag and a higher plane of
American citizenship.

No one will be held accountable for
all our proceedings—and no one can
escape the responsibility for his or
her share of the work devolving upon
us. While we may properly expect
and receive recreation and enjoyment
in meeting old friends and making
new ones, yet the highest satisfaction
will be obtained if we shall merit the
approbation of our constituents and of
Him who keeps a strict account of
talents given, opportunities offered and
results obtained.

We have met for the first time in
the prosperous city of Madison, and
among the thrifty people of Greenwood
County. Within my knowledge no
community has given our State and
National officers a more hearty recep-
tion than has been tendered us in the
field meetings which I have attended
in this city and I doubt if as much
good has resulted from our meetings
in any other locality.

The National Grange held its thirty-
ninth annual session at Atlantic City,
New Jersey, the most popular seaside
resort of America, November 15 to 23,
inclusive, and every day was entirely
devoted to the legitimate work of the
session. Twenty-six States were rep-
resented by their accredited delegates,
and although our place of meeting was
not in a grange community, nor in a
locality noted for farm products—with
50 miles of sand behind us and old
ocean in front, and the waves of the
broad Atlantic literally breaking be-
neath us and shaking the walls of our
place of meeting, yet thousands of
intelligent patrons of husbandry were
in attendance and over eleven hundred
were invested with the degree of

Ceres—the highest in our order—with
rites and ceremonies not surpassed in
beauty and impressiveness by those
of any other fraternal organization in
our country.

The Patrons of New Jersey, to prove
that their land was not all sand, and
that they had other products than mos-
quitoes and fake corporation, gener-
ously assisted by the railroads, made
an exhibit of home-grown fruit, vegeta-
bles and grain—especially corn—that
it would be hard for even Kansas to
match.

GOOD OF ORDER.

In retiring from his position as
Master of the National Grange, which
he had held with honor for the past
eight years, the Honourable Aaron
Jones referred with pride to the ad-
vancement made by the organization
during his term of office. The increase
in public estimation and influence in
State and National affairs, and in the
moral and intellectual uplift of its
membership cannot be reckoned by
the rules of percentage; but in num-
bers the order has increased 78 per
cent and the funds in the treasury of
the National Grange 68 per cent dur-
ing the past eight years.

FOR THE PUBLIC WELFARE.

The objects desired through Na-
tional legislation, endorsed by the
unanimous vote of the National Grange
and recommended to all State, Pomo-
na, and subordinate Granges for their
approval and assistance, are as fol-
lows:

NEEDED LEGISLATION.

The establishment of a parcel post
in the Post Office Department of the
United States Government.

Removal of the present internal-rev-
enue tax of \$2.08 per gallon on alcohol
rendered unfit for use as a beverage,
for commercial purposes.

National aid for the suppression of
the gipsy-moth.

Increased appropriation by Congress
for the support of experiment stations.
Election of United States Senators
by popular vote.

National aid for the improvement of
the public highways.

Additional powers to the Interstate
Commerce Commission in the matter
of transportation rates, their findings
to be immediately operative and so
continue until overruled by the courts.

Extension of rural mail delivery, and
opposition to any legislation curtailing
or restricting the present service.

More stringent pure-food laws.

Introduction of the science directly
relating to agriculture into the public
schools.

Placing basic slag meal for fertiliz-
ing purposes on the free list when the
tariff is revised.

Prohibiting the manufacture and
sale of cigarettes and cigarette paper.
Strengthening the anti-oleomarga-
rine law.

Legislation favorable to the estab-
lishment of independent telephone com-
panies among the farmers.

Extension of markets for farm pro-
ducts equally with manufacturing
goods.

Establishment of postal savings
banks.

Especial emphasis was given to the
demand for the regulation of rates
for transportation by the railroads as
endorsed and urged by President
Roosevelt.

The election of officers was of espe-
cial importance this year inasmuch as

TOOLS

The name Keen Kutter
eliminates all uncertainty in tool buying.

As this brand covers a complete line of tools, all you need remem-
ber in buying a tool of any kind is the one name Keen Kutter.

Keen Kutter Tools are without reserve or qualification the
best tools that money, brains and skill can produce. No
matter how much you pay, no matter who you may
have thought to be the best maker of a particular kind
of tool, you cannot get any tool, anywhere, better
than those sold under the name of Keen Kutter.

If your dealer doesn't keep Keen Kutter tools
write us and learn where to get them.

KEEN KUTTER

Tools received the Grand Prize at the St. Louis Exposition—the only such award ever given a complete
line of tools.

Some kinds of Keen Kutter Tools

Chisels, Knives of all kinds,
Hair Clippers, Scissors,
Shears, Axes, Axes,
Brush Hooks, Chop-
pers, Corn Knives,
Cleavers, Hay
Knives, Scythes,
Saws, Horse
Shears, Tool
Cabinets,
Etc.



Send for Tool Booklet.

SIMMONS HARDWARE COMPANY

St. Louis, Mo. 298 Broadway, N. Y.

"The
Recollection
of Quality
Remains Long
After the
Price is
Forgotten."
Trade Mark Registered.

new officers were to be chosen for at
least two of the most important po-
sitions, viz: Master and lecturer.

Ex-Governor N. J. Batchelder, of
New Hampshire, well known to many
of the patrons in Kansas by his pres-
ence and work in grange field meet-
ings two and four years ago, was elect-
ed Master and will continue the con-
servative but progressive course pur-
sued by the order for the past eight
years. Brother G. W. F. Gaunt, State
Master of New Jersey, was elected
Lecturer. Brother Gaunt is a new
member upon the official roll of the
National Grange, but it is confidently
expected that he will be found equal to
the demands of his position.

The Grange was tendered a public re-
ception and addresses of welcome and
appreciation were made by the Gover-
nor of the State, by Congressman
Gardner, and by the mayor of the
city; and appropriate responses were
made by Worthy Master Jones and ex-
Governor Bell. Congressman Gardner
paid Brother Jones a high compliment
for his work with Congress and the
executive officials in Washington in be-
half of the work assigned him by the
National Grange and said he would
need be a strong man who would fill
his place upon our legislative commit-
tee.

The next meeting of the National
Grange will be in Colorado and as this
is as near to us as it will probably
come for many years, it is hoped that
many of the patrons in Kansas will be
able to attend the meeting.

(To be Continued.)

The Quack Frog.

A Frog once made proclamation to
all the beasts that he was a learned
physician, and able to heal all dis-
eases. A Fox asked him: "How can
you pretend to prescribe for others,
and you are unable to heal our own
lame gait and wrinkled skin?"

Those who pretend that they can
mend others should first mend them-
selves, and they will be more readily
believed.—Esop's Fables.

Familiarity is a dangerous experi-
ment; the most familiar thing in the
world is a puppy, and the ofttest stept
on.—Billings.

Christmas Holiday Excursion Rates
via the Nickel Plate Road between
Chicago and Buffalo. Dates of sale De-
cember 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. Indi-
vidual Club Meals served in Nickel
Plate dining cars. Three through trains
daily from La Salle and Van Buren
street station, the only depot in Chi-
cago on the elevated loop. No. 39.

Sick Headache

When your head aches, there
is a storm in the nervous sys-
tem, centering in the brain.

This irritation produces pain
in the head, and the turbulent
nerve current sent to the stom-
ach causes nausea, vomiting.

This is sick headache, and
is dangerous, as frequent and
prolonged attacks weaken the
brain, resulting in loss of
memory, inflammation, epi-
lepsy, fits, dizziness, etc.

Allay this stormy, irritated,
aching condition by taking
Dr. Miles' Anti-Pain Pills.

They stop the pain by sooth-
ing, strengthening and reliev-
ing the tension upon the nerves
—not by paralyzing them, as
do most headache remedies.

Dr. Miles' Anti-Pain Pills do
not contain opium, morphine,
chloral, cocaine or similar drugs.

"Sick headache is hereditary in my
family. My father suffered a great
deal, and for many years I have had
spells that were so severe that I was
unable to attend to my business affairs
for a day or so at a time. During a
very severe attack of headache, I took
Dr. Miles' Anti-Pain Pills and they
relieved me almost immediately. Since
then I take them when I feel the spell
coming on and it stops it at once."

JOHN J. McERLAIN,

Pres. S. B. Eng. Co., South Bend, 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.

THE COMFORTER

Distended vein pressing on a nerve accounts for the swelling, throbbing ache of

Neuralgia

Dr. J. C. Jacobs Oil

improves circulation, allays the pressure and soothes away the pain.

Price, 25c. and 50c.

In the Dairy

Some Services a State Dairy and Food Commission May Render the Cause of Dairy Progress.

READ AT MISSOURI STATE DAIRY ASSOCIATION, JEFFERSON CITY, NOV. 15-17, 1905, BY J. Q. EMERY.

(Continued from last week.)

THE BABCOCK TEST.

He explains and illustrates the use and reliability of the Babcock test when skillfully used. He explains the requisite conditions for securing accuracy of test. He has instruments and uses them to test the pipettes to see if they are absolutely correct as to size. He tests the calibration of the bottles to determine its accuracy. He applies his speed-tester to the Babcock test to ascertain if the operator is running it at the rate of speed to give accurate results. He tests the sulphuric acid to find out if it is of the correct strength. He ascertains at what temperature the operator reads the test, and he measures the fat column from the lowest point at the bottom to the extreme top limit of the meniscus as he should; and he tests the skim-milk for butter-fat, and also the buttermilk or whey.

He inspects the weigh-cans, pipes and pumps, and churns, vats and vat-gates and everything connected with the factory to ascertain if they are kept scrupulously clean, and does the same as to the floors, walls, surroundings; nor is he to overlook the maker.

In his inspection of the surroundings, he gives particular attention to the drainage, and where that is defective he suggests the use of the septic tank or other suitable means for securing adequate drainage.

The inspector realizes that inadequate drainage is a prolific source of unsanitary conditions in creameries and cheese-factories and therefore he seeks to correct any imperfections of drainage. Being a competent judge of the commercial product, and to ascertain the quality of that product, he inspects and scores the same. This should become a means of instruction to the maker, who learns thereby where improvement can be made, and how that improvement is to be gained. As he is there to secure improvement, he must speak plainly and tell the truth.

He should have a knowledge of the proper construction of refrigerators, because they too frequently are only small boxes, partitioned off from the rest of the factory where some ice can be left to melt. Refrigerators properly constructed would stop numerous annual losses from mould.

If conditions are bad or unlawful, he warns the maker or manager that they must be changed within reasonable time or prosecution must necessarily follow; and he prosecutes if the change is not made. He may go to the patron's premises and point out the changes to be made. The curd test gives him a cue as to what patrons need his inspection. If he finds the milk at the factory below the legal standard of butter-fat, or otherwise unlawful, he visits the farm and takes samples there to test them. When there is a discrepancy between the test of the milk at the factory and that at the farm, he has the evidence that ninety-nine times out of a hundred will lead the defendant to plead guilty when prosecuted for

furnishing milk below the legal standard as to butter-fat.

He will report to his chief, on blanks prepared for that purpose the results of his inspection. The commissioner's office may thereby become a bureau of dairy information.

INSPECTING CITY MILK SUPPLIES.

A State dairy commission can render valuable service to the cause of dairy progress by making careful and critical inspections of city milk supplies. Samples are to be taken and tested for butter-fat content, for watering or skimming, for the use of preservatives and a curd test applied to determine the quality of the milk as to cleanliness and suitable care. This is a more practicable and valuable test than the bacterial count. If possible, this inspection is to be followed by an inspection of barns and premises of those furnishing milk. This is a field to which much time and effort may be given with great profit to the consuming public. In proportion as the milk furnished to our cities becomes possessed of the characteristics of cleanliness and purity and proper care, will the demand for such milk be increased. The consuming public, however, must remember that milk of such high quality cannot be produced and furnished them as cheaply as inferior milk.

A state dairy commission can render valuable service to the cause of dairy progress by giving quarterly or semi-annually bulletins in which is plainly and truthfully set forth results of the inspections made. This will show to the creamery men and cheese-factory men or managers and their patrons the effect of the bad work or the good work they are doing, and its final effect on the quality of the butter or cheese product and consequently upon the profits.

In the great battle for dairy progress and against ignorance, uncleanness and bad practice, a state dairy commission can render valuable service to the cause by being at the front and on the firing line sounding forth the bugle call, "Forward," in tones of such clearness and force and persuasiveness as to be everywhere heard and heeded.

WISCONSIN STATE DAIRY ASSOCIATION.

But the state dairy commission must be supported. There is no organization in any state which can or should give greater aid and support to the dairy commission than a state dairy association. In my own State the State Dairymen's Association has been instrumental in securing more effective legislation for the promotion of the dairy and agricultural interests than any other agency. It secured the establishment of the dairy and food commission; it conceived and secured the establishment of the first dairy school on this continent. In 1900, at the meeting of the Wisconsin Dairymen's Association, at Watertown, Prof. W. A. Henry said: "This Dairy Association is the parent of the Wisconsin College of Agriculture. What the college is to-day and what its ambitions are rests largely in the backing and help it receives from this association; and as a child we are loyal to our parent." To that association also, is largely due the originating of the Wisconsin Farmer's Institute.

Of Wisconsin farming in the early seventies, it might well be said that

"Many men wound in and out, And dodged and turned and bent about,

"And uttered words of righteous wrath, Because 'twas such a crooked path;"

A CHRISTMAS PRESENT THAT WILL PAY FOR ITSELF

Are you milking three or more cows? If so the handling of their milk, as you no doubt know, means considerable extra housework. Christmas time is now close by. What would be more pleasing to your wife than a present which would save her a lot of hard housework and at the same time enable you to make from \$10.- to \$15.- per year more from each of your cows? This is what a **DE LAVAL CREAM SEPARATOR** will do. It does away with the washing of crocks and pans, the handling of ice and water, and the warming of skim-milk for the calves. No housewife who has ever used a **DE LAVAL** machine can be induced to get along without one. Not only does it do away with a great deal of work, but at the same time if she is making and selling her butter to private customers the quality she has to sell is practically doubled and the quality of same greatly improved. This is the season of high butter prices. By securing a **DE LAVAL** machine at once it will half pay for itself before the winter is over. If you have not the ready cash to purchase a **DE LAVAL** machine, it can be bought upon such liberal terms that it will earn its cost and more while you are paying for it.

Write us today and make the coming year a continuous "holiday" for your wife, and the most profitable of your dairying experience.

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The continued raising of wheat had well-nigh robbed the soil of its fertility, and the chinch-bugs were running riot over the wheat-fields, made scant in yield by following the process then in vogue. But in 1872, a few pioneer thinkers became convinced that Wisconsin farmers were following a "maze of calf-paths" in their thinking and practice. They believed that some of the "calf-paths" in the minds of those farmers should be obliterated and new paths opened as conditions for successful achievement. They determined to do something to make the crooked paths straight and so they organized the Wisconsin Dairymen's Association. They swore allegiance to their own reason and their own intelligence and they have been true to their oath. All through the successive years they have been putting to rout the enemies of dairy progress.

Without a market for their products they waived the magic wand of their influence over the railroad officials and in response refrigerator cars were placed at dairy centers to be loaded with Wisconsin cheese and butter to be borne to the best dairy markets of the continent or to the seaboard, and thence to the great dairy markets of the old world, there by their merits to command the highest prices.

In their need and extremity they called for some easy and accurate means for measuring the butter-fat content of milk and cream, and right royally did Dr. Babcock, a member of that association, respond with a test that bears and must immortalize his name. They aided in bringing into existence great institutions that have made discoveries and inventions which have revolutionized the thought and practice of the dairy world, and that have been adding to and continually increasing their own productive powers. Their thoughts and experiences chronicled in the dairy press, to which their own necessities and their own genius gave birth, have led the march of dairy progress across the

continent and have influenced for good the dairy thought of the world.

The work of that association has ever been pioneer work; but it has been progressive work, and in my judgment, in its devotion to and efforts to promote advancement in everything connected with the dairy and agricultural interests of the State, is such as to make it in spirit and result worthy of emulation.

I appeal to the State Dairy Association of Missouri to be energetic, progressive and loyal in support of its State Dairy Commission. "Progress" should be the watchword. We need greater advancement in the selection, breeding, feeding and care of the dairy herd; greater advancement in the production of good, pure milk from healthy cows in the care-taking of the milk and cream; we need greater advancement in the quality of dairy products; we need greater advancement in the establishing and maintaining a reputation and market for dairy products; we need greater advancement in the development of high-class dairymen; we need to make advancement in securing for ourselves better profits by reducing the cost of production to the lowest point by the highest efficiency possible in the methods that are used. We need to catch, to hold, and to be moved by the spirit of the 20th century.

We need to allow the dairy cow,



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the gentle, gifted dairy queen to exercise her sovereign sway over our purposes, our hopes and our business destiny, with the assurance that to each intelligent and kindly act on our part in her behalf, she will respond most bountifully. Nor let us fail to woo her by our most bewitching, considerate and intelligent care and attention, and she will yield to us abundantly of her golden riches.

Permit me in conclusion to say that that person must indeed be in a "maze of cow-paths" in his thinking who fails to realize that the business of modern dairying calls forth in multitudinous ways those intellectual

activities in the tillage of the soil, the selection, breeding, feeding and rearing of the dairy herd, the manufacturing and marketing of the dairy products, that develop a strong intellectual manhood; that any large success in the very nature of the case, calls into constant activity those kind, considerate, attentive, unselfish, benevolent acts that cultivate and strengthen the moral nature; that the successful doing of all these things brings into activity man's will powers, and all this tends to the evolution of a high type of manhood, which should be the ultimate end of human effort.

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—AND—

A Holiday Trip

—FOR—

Every Dairyman

Your always faithful cow and the Blue Valley Creamery Co. have arranged for this and we ask you to accept it.

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This generous proposition that comes from your cows is worthy of your deepest gratitude. They would have this offer contemplate the most valuable present and the most extravagant pleasure trip. We have pledged our assistance towards gratifying this most ardent desire by promising to return to you (in SPOT CASH for IMMEDIATE USE) a price for the cream produced by the source of this generous offer, that is only justified because of the system on which we do business. Each day brings with it abundant and additional evidence of the satisfactory results to the Western Dairyman from this system. Ship your cream to us and get the highest price; cut out all unnecessary expense and save all the proceeds to buy Christmas presents for your own family and give a ride to those who have earned it.

With a merry Christmas to everybody we are,
Very respectfully,

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The Poultry Yard

CONDUCTED BY THOMAS OWEN.

Great Poultry Show at Manhattan.

EDITOR KANSAS FARMER:—The annual poultry show of the Kansas State Agricultural College Poultry Show Association, formerly the Western Poultry Association, ended December 16. The finest weather prevailed and the exhibition was a decided success. The show was held under the auspices of the Dairy and Animal Industry Department of the college. Prof. O. Erf, head of the department, is chairman of the association; C. C. Smith, of Manhattan, is manager, and W. A. Lamb, of Manhattan, is secretary. Mr. Thos. W. Southard, of Kansas City, was judge. Both Messrs. Smith and Lamb are breeders of fancy poultry, and both took several ribbons and other prizes on their entries. Judge Southard is a poultryman in Kansas City, and he breeds and exhibits fancy poultry also. He is one of the best known judges in the Central West.

The show was held in the judging room of the college barn. Some 47 exhibitors showed over 450 chickens of various breeds. Besides these, the college exhibited 72 chickens, which were not in competition. Prizes worth \$600 were donated by merchants, citizens and college professors.

The meeting of the State White Wyandotte Club was held at the same time, and their birds constituted a considerable part of the show. The attendance was very large, but no accurate account was kept. Probably 4,000 persons were in attendance, many from distant parts of the State.

The fine fall weather kept the birds in good condition. It was the general verdict of the visitors that it would be impossible to gather a better display of high-grade poultry in any part of the country. Judge Southard expressed the opinion that it was the best display, as a whole, that he had ever seen. He was especially pleased with the Barred Plymouth Rocks and the Silver Laced Wyandottes, which latter he thought the equals of those at the St. Louis World's Fair.

In a judging lecture and demonstration, which Judge Southard gave on Friday, he talked for over an hour on the various breeds, using live specimens for illustrations. Chairman Erf, in his speech introducing him, gave some astonishing statistics of the poultry industry in the United States. "Secretary of Agriculture Wilson's last annual report," he said, "showed the year's poultry product to be worth \$500,000,000. The money-value of the products of the hen are only exceeded by the dairy cow, and corn, and cotton. The Missouri surplus from poultry last year was \$49,000,000."

Judge Southard gave some information with reference to the beginnings of poultry breeding, which, he said, began in 1873 at the American Poultry Association at Buffalo. A standard was fixed, which is revised every five years. He told how breeds originated, gave some points on breeding, then showed what constituted a perfect bird by pointing out the defects in the live specimens.

An interesting feature of the show was the test of incubators, several of which were in operation in the north end of the show room. The silver cup for the best per cent hatch went to the Pinkerton company of Lincoln, Neb. Other winners and the total values of their prizes were:

Sweepstakes silver cup for the highest scoring chicken in the show, value \$5, a tie between C. C. Smith, of Manhattan, and F. L. Marsh, of Great Bend. Mr. Smith won \$30 and Mr. Marsh took \$14 in prizes, besides. The silver cup for the largest number of White Wyandottes scoring over 90 points each, was taken by Mrs. Ginnette, of Florence, Kan. She won \$5 additional on the same breed. Geo. (Continued on page 1314.)

POULTRY BREEDERS' DIRECTORY

M. B. TURKEYS FOR SALE—Choice young stock from 96 point tom, 92½ to 96 point hens. Mrs. A. E. Harness, Speed, Mo.

FULL-BLOOD R. C. Brown Leghorn cockerels, \$1 each if taken soon. Address J. E. Wright, Wilmore, Kans.

WHITE HOLLAND TURKEYS for sale at \$7 per trio from flock that score 95 to 97½ points, tom 16 to 20 pounds, hens 10 to 14 pounds. Mrs. Geo. E. Peck, Box 21, Great Bend, Kans.

NICE BLACK LANGSHANS—For sale cockerels, hens and pullets; \$1 each. Mrs. Geo. W. King, Solomon, Kans.

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FOR SALE—A choice lot of B. P. Rock cockerels, King Bradley and other strains. \$2 each, price of two or more. Write your wants to Mrs. Ada L. Almsworth, Eureka, Kans.

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ONLY FIVE of the fancy Poland-Chinas advertised last week by W. L. Reid, Route 4, North Topeka, Kans., left. See them soon if you want one.

FOR SALE—Some fine, broad-backed Poland-Chinas, gilts and a few boars left. Want some, write me. J. W. Keck, Route 23, Auburn, Kans.

DUROC BOARS—Oom Pam (23 times sweepstakes) strain. Spring boars \$10; yearling boars \$20. S. J. Renz, Leavenworth, Kans.

FOR SALE—25 Duroc boars large enough for service and 60 gilts, open or bred; strong bone and best of color. Price low. A. G. Dorr, Osage City, Kans.

MISCELLANEOUS.

EARN FROM \$87.50 to as high as \$155.70 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.

TWO MEN WANTED—To work on farm. One married. Man with grown son preferred. Steady work, good wages. House furnished. Give references. L. L. Pellet, Eudora, Kans.

LADIES—Two piece work at their homes. We furnish all material and pay from \$7 to \$12 weekly. Experience unnecessary. Send stamped envelope to Royal Co., Desk 49, 34 Monroe Street, Chicago.

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

WANTED—Man and wife to work on wheat farm in N. W. Canada. Man must be experienced farm hand. Wife must be competent to manage house and board necessary farm help. Steady position for both. Address S & S, 144 Marquette Bldg., Chicago.

AGENTS WANTED Sell both sides of the coin. Write for particulars.

GREAT POULTRY SHOW AT MANHATTAN.

(Continued from page 1307.)

W. Shelly, of Manhattan, took \$32 for best pen in American class and a clean sweep in Golden Wyandottes; Harvey W. Brown, of Washington, Kan., clean sweep on Dark Brahmans, \$27; Mrs. Geo. King, Solomon, Kan., best pen, best male, best female, Asiatic class, \$24; Alice J. Lamb, Manhattan, \$19.25; J. R. Young, Manhattan, clean sweep in Barred Rocks, \$18; McBride Bros., Manhattan, best display on incubators, best display of brooders, second best per cent hatch, \$17.50; I. Merrifield, Kensington, Kan., \$16; W. A. Lamb, Manhattan, \$12; M. Hastings, Manhattan, \$11.40; Theo. Walker, Gypsum, \$10; Dr. F. S. Schoenleber, Manhattan, \$10; T. F. Weaver, Blue Mound, Kan., clean sweep on Light Brahmans, \$9; a number of others won sums less than \$10.

Thos. Owen, secretary of the State Poultry Association, who exhibited White Rocks, and Gen. J. W. F. Hughes, who exhibited Buff Wyandottes, both gentlemen of Topeka, were much interested in inspecting the College poultry houses. Mr. Owens thought them the most practical he had ever seen.

Another feature of the show was the "Utility Exhibit," which included a slaughter test of various fowls, which was won by I. Merrifield, of Kensington, Kan. Also, the egg test, in which white and brown eggs were judged as to quality and appearance, per cent white in yolk, viscosity of white, cleanliness, uniformity of color and size, and evenness of shape. G. W. Shelley, of Manhattan, won first for white eggs, and Mrs. Ginnette, of Florence, Kan., won first for brown eggs.

The College has now a complete poultry division of the dairy and animal industry department. Much has been done during the last two years in experimenting with poultry. A poultry-house 100 by 12 feet, with a main two-story addition 24 by 38 feet, was built a year ago. The house was built in the most practical manner, and many poultry-breeders are patterning after it.

The egg-laying contest conducted here last year aroused much enthusiasm among the breeders. Experiments are now in progress to determine the value of various feeds for poultry. The question where the mineral matter for the egg-shells comes from, is another one which is now under experimentation. Further experiments in breeding and selecting are now well under way and definite results will soon be obtained. It would be well for the breeders to cooperate with the College in this practical work. A. N. H. BEEMAN.

Between the two sides of the coin, less than one and one-half hours ride from Washington. Good road facilities. Outbuildings complete in every respect and in first-class condition. Good fencing. Large silo, filled for winter. Two dwellings on place for manager, etc. Good watering facilities with large storage tank. Excellent herd of cattle and well equipped dairy. Good and and whole farm can be cultivated.

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