

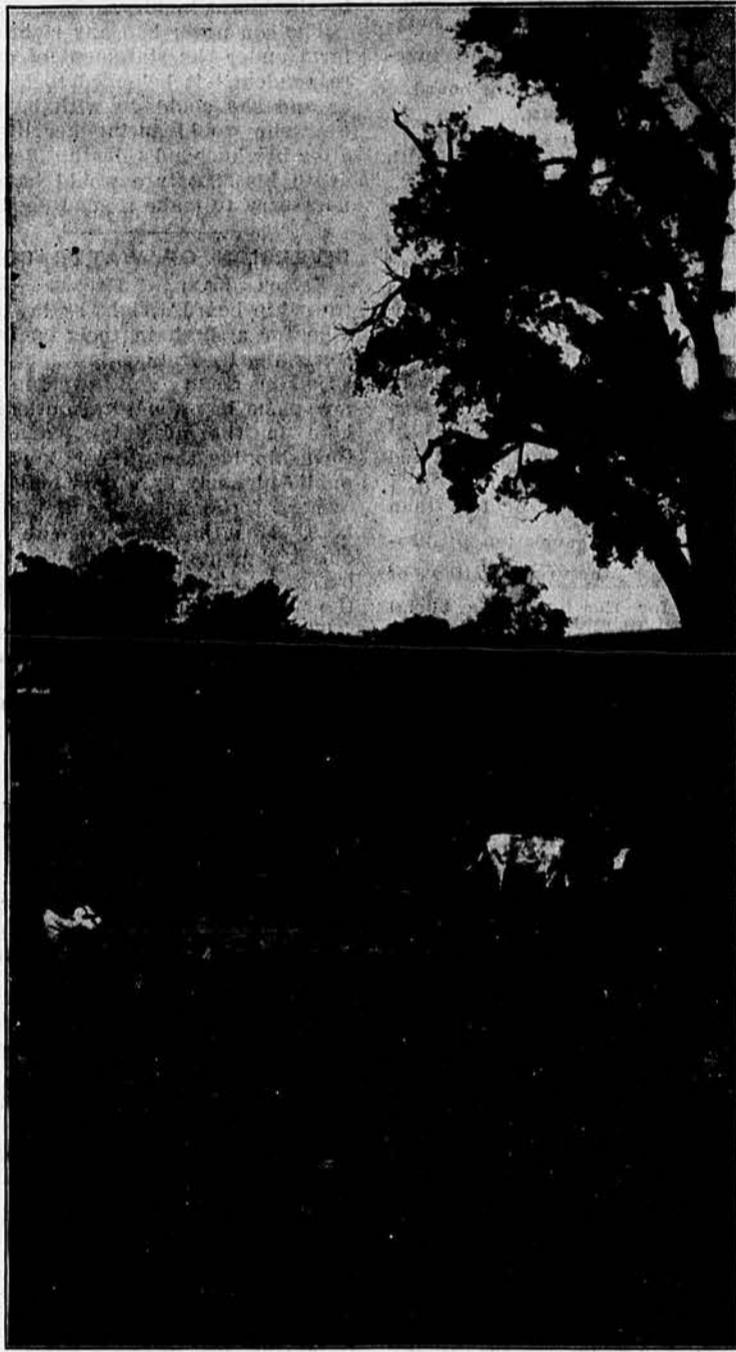
KANSAS FARMER

NEBRASKA
OKLAHOMA

Volume XLV. Number 12

TOPEKA, KANSAS, MARCH 21, 1907

Established 1863. \$1 a Year



Government Ford Across Big Creek, Old Fort Hays.
—From Short Grass Souvenir.



Principal Contents of This Week's Paper

Alfalfa questions.....	379	Little Fairy—the story of a pet canary.....	385
Alfalfa, seed-bed for.....	378	Man's helpmate.....	384
Baby's comfort, the.....	384	Manure on corn ground.....	377
Beef production, some leading features of.....	375	Oats questions.....	378
Beef scandal, effect of.....	371	Orchard spraying.....	380
Bermuda grass.....	377	Poultry notes.....	391
Bids on the "big pasture".....	371	Poultry pointers.....	390
Bird, a new kind of.....	386	President's cabinet, the.....	371
Canned-meat trade, reestablishing the.....	374	Recipes, some good cake.....	385
Chickens, milk-fed.....	391	Reciprocity battle coming.....	374
Corn exposition prizes, Chicago.....	382	Rocky land.....	377
Corn-plantin' time (poem).....	384	Seed-corn, how to test vitality of.....	371
Corn, preparation of ground for.....	377	Silo? does the practical man like the.....	382
Cow-pea question.....	378	Spring airing, a (poem).....	356
Crop rotation.....	379	Stallions, use of young.....	374
Culverts for highways, permanent.....	371	Summer beauty, plan for.....	384
Dairyman of the future, the.....	388	Sweet-pea trenches, time for making.....	384
Deed, validity of a.....	370	Tax question, a.....	370
Dollar wheat.....	382	Telephone, the.....	384
Gopher poisons.....	370	Veterinary department.....	393
Grain report, March.....	371	Water course, diversion of.....	370
High school tuition under the Barnes law.....	371	Wheat, damaged.....	374
Legislature, work of the.....	370	Whistle (poem).....	385

KANSAS FARMER.

Established in 1888.

Published every Thursday by THE KANSAS FARMER COMPANY (Incorporated, January 1906). Topeka, Kansas

SUBSCRIPTION PRICE: \$1.00 A YEAR

Entered at the Topeka, Kansas, postoffice as second-class matter.

OFFICERS.

President.....E. B. COWGILL
Vice President and General Agent.....I. D. GRAHAM
Secretary and Manager.....H. A. HEATH
Treasurer.....JOHN R. MULVANE

LIVE STOCK REPRESENTATIVES.
C. E. SHAFER.....Northern Territory
L. K. LEWIS.....Southern Territory

SPECIAL AGENTS.

New York.
J. C. Bush.....1110 Potter Building Boston.
W. H. Daggett.....1006 Paddock Building Chicago.
F. W. Stillwell, manager, Fisher Special Agency, 112 Dearborn St. St. Louis.
B. A. Tharp.....710 Missouri Trust Building Pacific Coast.
David R. McGinnis, 21 Peoples Savings Bank Building, Seattle, Washington

ADVERTISING RATES.

Display advertising, 20 cents per line, agate (fourteen lines to the inch). Continuous orders, run of the paper, \$1.52 per inch per week.
Special reading notices, 30 cents per line.
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.
Electros must have metal base.
Objectionable advertisements or orders from unreliable advertisers, when such is known to be the case, will not be accepted at any price.
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 THE KANSAS FARMER CO., 625 Jackson St., Topeka, Kansas

WORK OF THE LEGISLATURE.

The Legislature of 1907 came to Topeka with commission to do several things in the interest of the people of Kansas. The election of United States Senator was quickly disposed of. There was no State Printer to elect, that office having been made elective by the people at the general election.

The two houses locked horns on several important measures. The Senators had held over, their term being four years. They were elected in 1904. The House was more distinctively representative of present views of the people. Some measures regarded as of great importance by the majority of the House were severely pruned in the Senate. The primary election bill and the two-cent fare bill were subjects of so great disagreement that the former was not passed at all and the latter was so modified as to be of no effect for the occasional traveler.

The issues left unsettled have already been slated for the next election and seem likely to be fought over in the interest of candidates for the Senatorial election of 1909.

Following are new laws of general interest enacted by the Legislature of 1907:

HOUSE BILLS.

Providing for railroad terminals in Kansas City, Kans.
Empowering judges of the district and common pleas court to parole prisoners.
Fixing a severe penalty for killing certain birds, principally the Chinese pheasant recently purchased and distributed through the State.
Creating State Board of Veterinary Registration.
Increasing the power of local boards of health, making it possible for them to immediately abate any nuisance.
Preventing the destruction of cornerstones and landmarks.
Providing for the general observance of Memorial day and appropriating money for the same.
Authorizing cities of 50,000 population to establish and maintain park systems.
Reestablishing the State grain inspection department.
Providing for the government of cities of the first class by a board of five commissioners.
Authorizing the erection of cottages at the Soldiers' Orphan Home for the care of cripple children.
Preventing persons convicted of murder from inheriting.
Providing for the regulation, inspection, and sale of manufactured feed.
Enabling school boards in certain counties to levy a tax for the payment of high school tuitions.

Compelling freight trains to carry passengers.
Enabling school district to issue bonds to pay outstanding warrants.
Declaring February 12, Lincoln's birthday, a legal holiday.
Making it a misdemeanor for a person to hunt or fish on another's premises without first securing permission from the owner.
Limiting the bonded indebtedness of second class cities.
Compelling railroads to provide double-deck sheep cars.
Limiting the working hours of trainmen.

Providing for the burial of all honorably discharged soldiers, sailors, and marines of the Spanish-American war, the expedition to China and the Philippine insurrection.

Creating the office of city purchasing agent in all cities of 50,000 or more.

Making it unlawful to "jump" a board bill or secure board and lodging by misrepresentation.

Conferring on boards of county commissioners jurisdiction over all non-navigable water courses.

Providing for the handling of gasoline in red cans.

Authorizing county superintendents of public instruction to issue temporary teachers' certificates.

An act to encourage the building of railroads in certain counties in the southwestern part of the State.

Providing for the collection of fees in extradition and requisition cases.

Fixing levies of boards of county commissioners for the payment of current expenses.

Authorizing cities of the first and second class to issue bonds for the payment of present outstanding judgments.

Amending and supplementing juvenile court law.

Creating a State embalming board.

SENATE BILLS.

Creating a city court at Chanute.
Providing for the safety and health of coal miners.

To reorganize the State militia.

Anti-harvest trust law, prohibiting the making of exclusive contracts.

Enabling cities of the third class to create sewer districts and maintain a sewer system.

Providing for the organization and control of mutual life insurance companies.

Providing for the establishment of kindergarten schools in school districts for the primary training of children between the ages of 4 and 6 years.

Creating an entomologist commission to two members for the purpose of fighting the San Jose scale.

Creating civil service commission and providing for the regulation of fire departments in all cities of the first class with a population of less than 50,000.

Providing for the selection of probate judges pro tem.

Providing for the registration of trade marks.

Providing for the honorable burial of soldiers' wives and widows.

Enabling cities of the second class under 5,000 to levy a tax for the payment of street lighting.

Authorizing cities of the third class to issue bonds to refund existing floating indebtedness.

Creating a State dairy commissioner and defining his duties.

Compelling railroads to erect and maintain sheds at their shops for the protection of their employes against the weather.

Creating the office of city auditor in all cities of 50,000 or over.

Defining the faith and credit of foreign divorce judgments.

Making appropriations for farmers' institutions and good roads.

Preventing delay in transportation of live stock fixing the minimum speed at 15 miles an hour.

Relating to the sale of islands owned by the State.

Prohibiting railroads from having an understanding or agreement between them relative to demurrage rates.

Relating to trusts and unlawful organizations, compelling them to show their books at the request of proper authorities.

Providing for fire limits in cities of the second class.

The Associated Press bill, prohibiting the exclusive sale of news by telegraph or telephone service.

The administration bill, strengthening the gambling law.

Changing the law relating to the registration of voters. Under this act it is only necessary to register once every two years providing that the voter does not move out of a precinct.

Creating an excise tax on all business done by express companies in the State.

Providing for the recovery of damages for the loss of coal while in transit.

Authorizing cooperation with the Government in the inspection of the water resources of the State to determine their usefulness and sanitary condition.

Enabling first and second class cities to purchase and operate their own water plants.

Substitute for House bill relating to assessment and taxation, providing for a tax commission of three members who shall see that all property is assessed at its true value in money.

VALIDITY OF A DEED.

EDITOR KANSAS FARMER:—My husband has taken your valuable paper for twenty years. I see that you answer many questions through its columns. I would be pleased to have you answer this: A and B are man and wife. They have one son, of age. A has money. B takes it and buys a small farm, the deed of which is made in B's name. This is not B's home. A and B live in other property in the city. A dies leaving no will. B sells the farm and makes deed without the

signature of the son or his wife. I want to know how this son lost his right. In what way did B disinherit her son? Is her deed of any account? Wilson County. A READER.

The presumptions in this case as stated are against disturbance of the title to the farm as conveyed by B's deed. So far as the statement shows, the transactions are regular on their face. It would be presumed that B took the money to buy the farm with A's knowledge and consent. If it did not belong to both as an asset of the family but was A's from some inheritance or some other source he may have given it to B to invest for her own benefit. To make a case against the validity of the deed to the farm it would be necessary to prove a good deal which under the circumstances here stated can not probably be proven. If there were two large farms at stake instead of one small one the writer would not undertake to recover them for a contingent fee of the two farms. This son can better afford to earn another farm than to fight his mother's deed under conditions indicated by the above inquiry.

The son never had any right to this farm under the statement of our correspondent. It belonged to his mother and she could do with it whatsoever she would during her life time, after her husband's death. Before his death his signature would have been necessary to make a good deed.

DIVERSION OF WATER COURSE.

EDITOR KANSAS FARMER:—Has a township board a right by law to provide for a ditch in their county and township, to drain a low place in an adjoining county and township? Said low place has a natural outlet into a lake in the adjoining county and township, but the water is kept on the public highway by a dam built by the owner of the natural outlet into the lake. Has the owner of the natural outlet a right to stop up the natural outlet into the lake, thereby holding the water on the public highway?

The township board of the township in which the low place is situated is trying to drain said low place into our county and township in order to better preserve a dam through the above-mentioned lake, also a public highway.

Can a third party or parties prohibit said ditch from being built, if he or they can prove that said water, if drained onto their farm or farms would be a damage to his or their crops, also making their farms of less value? SUBSCRIBER.

McPherson County.

No one has a right to change or obstruct a natural water course to the hurt of another without paying for the damage done. The township board can not take private property for public use without paying for it, so that even for the protection of the road they can not dig a ditch across private property doing damage to the owner of the property until such damage shall have been legally ascertained and compensated for.

In 31 K. 120, Justice Brewer, of the Kansas Supreme Court, now of the United States Supreme Court, said: "A party can not [even] on his own land, or because of the necessities of his own business, divert the flow of a natural water course without paying any party injured, the damages he sustains therefrom."

This is a clear and strong statement of the law as it is applied in Kansas, and defines the position of persons whose property would be damaged by the proposed diversion of the water to a new course to be constructed across their land.

Turning to our correspondent's question as to the authority of the township board, it should be observed that this board gets its authority from the statutes. It has no authority to do any act not authorized by the statutes or necessary to the performance of its duties as laid down in the statutes. The statute, section 3560 of the General Statutes of 1905, gives

PILES CURED IN 6 TO 14 DAYS. PAZO OINTMENT is guaranteed to cure any case of Itching, Burning, Bleeding or Protruding Piles in 6 to 14 days or money refunded. 50c.

the township board charge of the roads in its own township, but no authority is conferred as to roads in another township or another county. So that conditions which might authorize the township board to construct a drain for the protection or betterment of a road in its own township would still leave the board without authority to do anything for a road in another township. It should be observed also that under conditions which might be held to authorize the township board to change a waterway, such change can not be made to the damage of private property without due compensation to the owner of the property.

It is scarcely conceivable that any township board will attempt to overstep its authority after its attention shall have been called to the law and the facts. But should legal proceedings become necessary to prevent serious damage or to obtain compensation therefor, those interested may find it necessary to employ an attorney to take the matter into court for them. In all cases it is better to use every possible means of averting a law suit. Among things to do in cases of this kind may be mentioned consultation with the county attorney by the township board. It is his duty to advise all officers and boards in his county as to their duties and powers. Avoid litigation if possible.

GOPHER POISONS.

EDITOR KANSAS FARMER:—Will you please print a recipe for a gopher exterminator which I can prepare myself? I would like a sure thing and one on which there is no patent. I must kill them out of my alfalfa, now that I have time. JOSEPH BRAD.

Clay County. The desire of our correspondent to personally prepare the poison for gophers may be more poetic than wise. Poisons are undesirable articles to manipulate. They are dangerous.

Some farmers have succeeded in greatly reducing their gopher enemies by the use of poisoned pieces of potatoes. A little strichnine is inserted in a small piece of potato; a hole is made into the gopher's run with a piece of wood, say something like a fork handle. If this is shod with a sharp steel point and provided with a bracket for the foot, so much the better. A small iron rod, like a wagon end-gate rod, is used to locate the run. The hole being made, the poisoned bate is dropped in. The gopher is expected to attend to all further needed operations.

Strichnine is very bitter and soon imparts its taste to the entire bait. On this account some have thought it necessary to defer poisoning the bait until ready to use it.

Other vegetables are said to answer as well as potatoes for bait.

The Kansas Experiment Station at Manhattan prepares a poison which is used with grain. It is said to be very effective for gophers. The station buys its poisons at wholesale, prepares them in large quantities, and sells them at about the cost of production—doubtless far below the cost of preparation on the farm. Directions for using accompany the poisons.

The McFarland Chemical Company, of Topeka, formerly prepared a gopher poison ready for use. It is said to have had an odor which attracted the gophers and a taste which they liked, besides being far more poisonous than strichnine. THE KANSAS FARMER is not advised whether or not this is now on the market.

Our correspondent is right in saying that he must kill the gophers out of his alfalfa now. They take bait readily while their food supplies are less abundant and less varied than later in the season. They do great damage to the alfalfa.

A TAX QUESTION.

EDITOR KANSAS FARMER:—I have been neglecting or forgetting to pay my personal tax in the State of Nebraska. The sheriff did not notify me after we moved to this State. Can they collect personal taxes from me in this State? READER.

Decatur County. The usual method of collecting

delinquent taxes on personal property is for the sheriff of the county in which the taxes are due to levy on the personal property of the delinquent when such property can be found in his county. The tax warrant has much the force of an execution. The Nebraska sheriff can not levy on property in Kansas. The Kansas Supreme Court has held, 48 K. 561, that "taxes are not debts, hence no action will lie to recover the same." This means that the tax collector in Nebraska can not sue the delinquent in Kansas as upon a debt. If, however, the delinquent should drive over into the county in Nebraska in which the tax is due the sheriff might levy on his team or any other personal property of the delinquent, found in the Nebraska county.

The more satisfactory way in a case of this kind is to pay the tax.

MARCH GRAIN REPORT.

The Crop Reporting Board of the Bureau of Statistics of the Department of Agriculture, from the reports of the correspondents and agents of the Bureau, finds the amount of wheat remaining in farmers' hands on March 1 to have been about 206,644,000 bushels, or 28.1 per cent of last year's crop, as compared with 158,403,000 bushels, of 22.9 per cent of the crop of 1905, on hand on March 1, 1906, and 20.1 per cent of the crop of 1904 on hand at the corresponding date in 1905.

The corn in farmers' hands is estimated at about 1,298,000,000 bushels, or 44.3 per cent of last year's crop, against 1,108,000,000 bushels, or 40.9 per cent of the crop of 1905, on hand on March 1, 1906, and 38.7 per cent of the crop of 1904 on hand at the corresponding date in 1905.

Of oats there are reported to be about 384,461,000 bushels, or 39.8 per cent of last year's crop, still in farmers' hands, as compared with 379,805,000 bushels, or 39.8 per cent of the crop of 1905, on hand on March 1, 1906, and 38.8 per cent of the crop of 1904 on hand at the corresponding date in 1905.

EFFECT OF BEEF SCANDAL.

The decline in the demand and values of canned meats in 1906 is especially marked, and the problem of the packers, which has always been how to dispose of the cheaper and coarser cuts of meat without serious loss, is thus intensified. The only solution for the packer (and this has been the direct result of the agitation of the last year) was to increase the prices of choice cuts sufficiently to make up for losses on the more inferior kinds, and to raise the prices of choice cattle, mutton, and pork at the expense of the medium and common grades of cattle which make up the bulk of supplies.

The only escape for the cattle-producer is to stop raising inferior cattle, and to raise more corn and feed it to good cattle until they are ripe and ready for market. The highly satisfactory prices realized this winter at Chicago for choice, well-fed cattle prove the wisdom of such a course, and if the "beef scandal" hastens such a change, it will not in the end prove an unmixed evil to those who have innocently suffered from it.

HIGH SCHOOL TUITION UNDER THE BARNES LAW.

EDITOR KANSAS FARMER:—I live near Burr Oak and send two children to high school, although I am out of the district a short distance. I have been paying tuition all the year. I saw an account in the Burr Oak Herald of the Barnes bill. The way I understood it is that persons sending children to a high school in the same county in which they live do not have to pay tuition, and that the law is in effect at the present time.

Jewell County. WM. H. PEETS. The records in the office of the State Superintendent of Public Instruction show that the provisions of the Barnes law were not adopted in Jewell County in which Burr Oak is situated. Therefore, there is no provision in that county, under the Barnes law, by which pupils living

outside of the school district may be admitted to the high schools of Jewell County without paying tuition.

In the counties in which the Barnes law was adopted at the last election the law is now in effect and tuition should be free to all pupils throughout the county in high schools coming under the provisions of the Barnes law.

BIDS ON THE "BIG PASTURE."

EDITOR KANSAS FARMER:—According to the published rules governing the sale of lands in the "Big Pasture" only one quarter-section can be assigned to one person. Now, if a person desiring a bit of this land should in the regular way send in four bids on as many quarters, and, when recorded, the first bid should prove a top one and be so recorded, would the other three bids, neither of which was a top one, cut any figure as far as that person is concerned? See section 18 of the rules.

Riley County. GEO. H. PERRY. Under the regulations contained in the President's proclamation covering this sale, the first bid mentioned by our correspondent secured the land on which the bid was made. Concerning the other bids the last sentence in section 18 of the regulations says:

"As soon as a tract has been awarded to any bidder all other bids made by him will be cancelled."

Under any conceivable construction of the sentence here quoted the "other bids" became as if never made as soon as the award was made to the bidder on his accepted bid.

THE PRESIDENT'S CABINET.

EDITOR KANSAS FARMER:—Will you please publish the names of the President's present cabinet officers?

MRS. J. A. McCORMICK. Woodson County. Following are the names of the President's present official advisers and heads of departments: Secretary of State, Elihu Root; Secretary of War, Wm. H. Taft; Secretary of Navy, Victor H. Metcalf; Secretary of Treasury, Geo. Bruce Cortelyou; Postmaster-General, G. von L. Meyer; Attorney General, Chas. Jas. Bonapart; Secretary of Interior, Jas. Rudolph Garfield; Secretary of Agriculture, Jas. Wilson; Secretary of Commerce, Oscar Solomon Straus.

HOME BUILDERS.

THE KANSAS FARMER has just concluded arrangements for a new feature, the Home Building Department. The services of experienced and expert architects have been engaged to supply designs weekly for THE KANSAS FARMER.

We have secured an edition of a book, "Twentieth Century Cottages," which contains a number of views and complete floor plans of houses costing from \$1,000 to \$2,500 which we will sell to our subscribers at 25 cents each. Or we will send it free to any one sending us two new subscribers and \$1.

BLOCKS OF TWO.

Every opportunity to do a favor to a friend or neighbor should be improved. The subscription price of THE KANSAS FARMER is \$1 per year. It is are extending the circulation rapidly by means of their blocks of two proposition. It is this:

Every old subscriber on sending his dollar for renewal is authorized to send dollar for renewal is authorized to send the name and address of some one not now taking THE KANSAS FARMER and the dollar will pay for both subscriptions for one year. Address, The Kansas Farmer Company, Topeka, Kans.

THE KANSAS FARMER presents this week a letter from Alvin H. Sanders, of Chicago, on the present outlook for reciprocity with Germany in the handling of our meat trade. Mr. Sanders is editor of the Breeder's Gazette, and is one of the best-informed men on this subject. He has devoted more

ONLY ONE "BROMO QUININE"

That is LAXATIVE BROMO Quinine. Similarly named remedies sometimes deceive. The first and original Cold Tablet is a WHITE PACKAGE with black and red lettering, and bears the signature of E. W. GROVE, Sec.

than half of his time for the last two years to the enlargement of our foreign markets. In a personal note to the editor of THE KANSAS FARMER Mr. Sanders speaks most hopefully of the outlook. Western farmers should get ready to help the movement for enlarged markets.

The committee having in charge the Shawnee County Boys' Corn-Growing Contest will meet at the city court room on Saturday, March 30, at 1 o'clock. The selection of the seed-corn and arrangements for the contest of 1907 will come before the meeting.

Some of those who figure on future prices for beef stock predict a new high record within the next two years. Nobody seems to expect a fall in prices.

All reports received at this office indicate a great wheat crop in Kansas for 1907.

Why does anybody who writes to the editor omit to sign his name? The inference is that he is ashamed of something.

Miscellany

How to Test Vitality of Seed-Corn.

I am in doubt about some seed-corn, which I selected this winter, as to being uninjured or healthy. Do you test seed-corn for the farmers? If not, can you tell me the best way to test same, and I will be greatly obliged?

Dickinson County. E. R. CROSSER.

We could make a general test of your seed-corn, but it would be better for you to make the test yourself, and in case you find the corn is not sufficiently high in germination, it is advisable to make a germination test of each ear of corn and throw out the ears which are of low vitality. A general test may be made by selecting four or five kernels from different parts of a number of ears, say 100. Imbed these kernels in a box of wet sand or soil and cover the soil with several folds of wet paper, laying boards over the top of the box to retain the moisture. Place the box near the kitchen stove or in a moderately warm place. After five or six days you may remove the cover and count the kernels which have germinated, and in this way determine the percentage of germination. If more than 10 per cent of the kernels fail to germinate, I would advise you to make a germination test of each ear of corn which you intend to plant.

Make a number of shallow boxes about two or three inches deep and from two to four feet square. Fill these even-full with sand or soil, and stretch fine wires over the box, nailing the wire at the ends, and making rectangular squares by crossing the wires, about two inches square. Number each box and also introduce a system of numbering the squares, which may be as follows: Each of the horizontal columns may be lettered a, b, c, d, e, while each of the vertical columns may be numbered from 1 to 20, or any number, according to the number of vertical columns in the box.

Lay the ears of corn in a row on the floor or table against the wall; beginning at one end of the row, remove six kernels from each ear, taking two from near the tip, two from the middle, and two from near the butt of each ear. Place these kernels in one of the squares in the box, taking care to fill the box in regular order, beginning with square No. a-1, a-2, etc.

When the kernels from each ear in the row have been placed in the germinator in consecutive order, then lay a board or strips of cloth, or twine on top of the first row of ears and place a second row above the first, removing the kernels from the ears in the second row and placing them in the germinator in consecutive order as already described. This method may be repeated until you have built up a rank of corn several ears high.

Cover the germinator with two or three folds of wet cloth or paper, af-

WHY NOT BUY IN KANSAS?

The Mail Order house of Kansas makes the following remarkable offer:

We Pay the Freight, Express, or Postage to any point in Kansas.

It does not matter whether you buy over the counter or order by mail we'll pack the goods and deliver them at your depot, express or postoffice without any extra charge.

We carry one of the most complete stocks in the State of Dry Goods, Women's Suits, Coats, and Shoes, Furniture, Carpets, Curtains, and Draperies.

We do not issue a catalogue. Write for prices and descriptions.

CROSBY BROS.

Topeka, -I- Kansas

ter the sand or soil has been thoroughly wet and the kernels have been pressed into it, then over the cloth place boards to prevent the moisture from evaporating.

Set the box in a warm place and after five or six days, examine the corn, noting the number of kernels which have germinated for each square. When more than one of the kernels in a square fails to germinate, the ear should not be considered fit for planting. When the test has been completed, remove the corn ear by ear and tier by tier, referring continually to your record of the germination, and discard the ears which show a low percentage of germination.

This is not so great an undertaking as it would seem, and I shall be pleased if you will attempt to carry it out. I believe it will pay to make the test of each ear, even though the corn show a fairly high percentage of germination in the general test, because there are always some poor ears of corn, and the ear-test is the only method by which you may discover them.

I wish to urge all farmers to test their seed-corn this spring, because it appears that much seed-corn was injured more or less last fall by the cold wet weather in November.

A. M. TENEYOK.

Permanent Culverts for Highways.
(Continued from last week.)

STONE BOX CULVERTS.

In places where good stone in large and thick slabs can be readily obtained, small culverts can be cheaply built of two side walls with stone slabs laid across their tops. This form of culvert has often been built, but has frequently proved to be not a permanent structure. The main causes of failure in a stone box culvert are: The use of poor stones, which disintegrate under the action of the frost; the laying up of side walls without mortar and often of small stones, which are almost sure to go to pieces; the use of cover stones that are too weak to support the load above them; the failure to provide a paved floor to the culvert that will not wash out in places, thus allowing the side walls to be undermined.

The mere statement of these causes of failure suggests the appropriate remedies, or rather the proper preventives. Except when made of large, carefully joined stones, most of which extend clear through the wall, do not lay side walls up dry unless it is expected to rebuild or repair the culvert occasionally. Do not neglect to carry the side walls down to some solid foundation and to carefully pave between them, to prevent washing out. Cover stones should be carefully selected, and should have a bearing of at least 10 or 12 inches on each side wall. They should be at least from 8 inches thick for a 2-foot span to 12 inches thick

for a 4-foot span, unless exceptionally good stone is used, and should have all thin or weak edges trimmed off. It is an unpleasant and costly job to dig out and replace broken cover stones. Unless a stone box culvert is well built it is not to be classed as a permanent structure.

No table of costs will be given for this form of culvert, as the construction depends largely upon the character of the local materials, and these vary too much to warrant the making of any general summary.

CONCRETE AND RUBBLE MASONRY ARCH CULVERTS.

Without doubt the best form of permanent culvert for waterway areas of from 8 or 10 up to 200 or 300 square

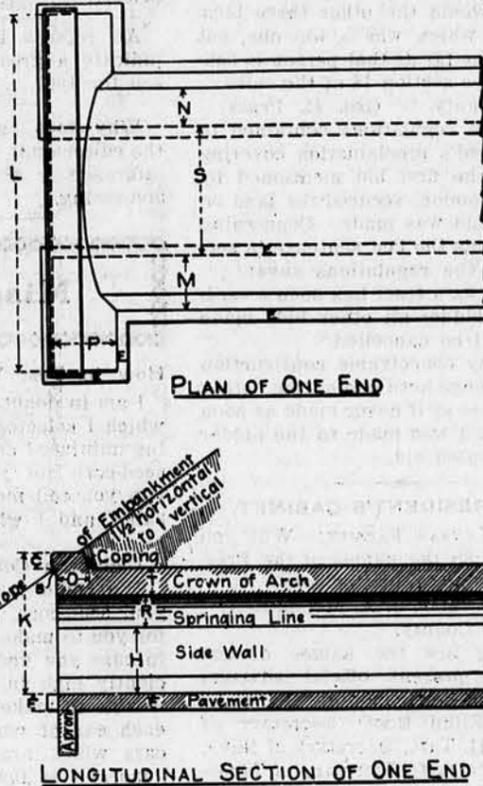
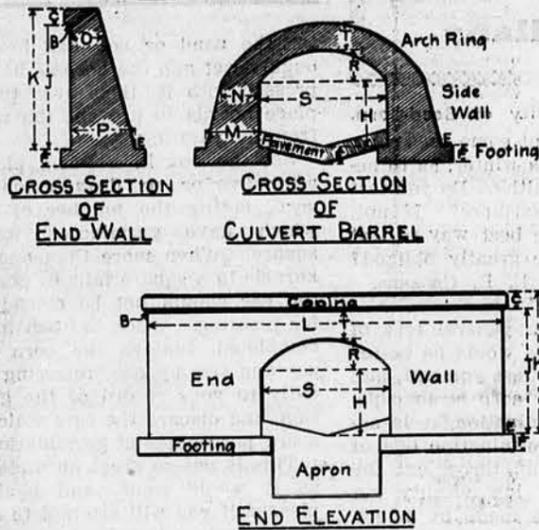
culvert will contain less masonry, and therefore will cost less, than a full-centered arch culvert of the same discharging capacity, and it can be used under a lower bank.

2. A comparatively low, wide culvert will give a larger discharging capacity for the same cost than one with high side walls, and has the added advantages that it can be used under lower banks and the culvert will reach its full discharging capacity with a less rise of the stream and therefore with less overflow of adjoining banks. A combination of a broad segmental arch and low side walls gives a culvert with the largest capacity for the smallest amount of masonry. Since the general use of Portland cement concrete has become established, this

should be paved with either a layer of concrete or a pavement of stones set on edge transversely to the direction of flow, in all cases except when the culvert rests upon a rock foundation. This pavement may ordinarily terminate at the end of the barrel of the culvert, but in soils that are apt to wash badly should be extended to cover the space between the wing walls. A substantial apron of concrete or of flat stones set on edge should in all cases be sunk at the end of the pavement to protect it from being undermined. A poor floor that is soon cut out by the water and then allows the side walls to be undermined is one of the most important causes of failure of arch culverts.

The writer offers herewith a general

GENERAL PLANS FOR HIGHWAY CULVERTS SHEET No. 1 FOR CULVERTS WITH SPANS OF FROM 3 TO 6 FEET JANUARY 1907 W.C. HOAD LAWRENCE, KAN.



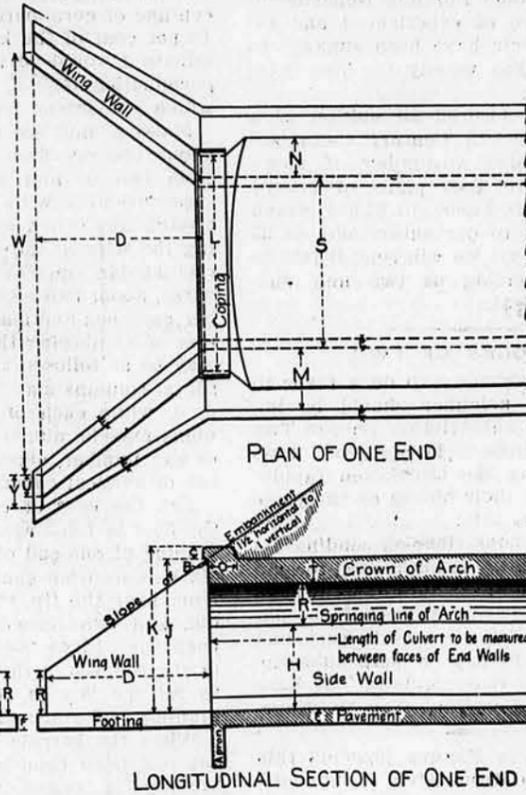
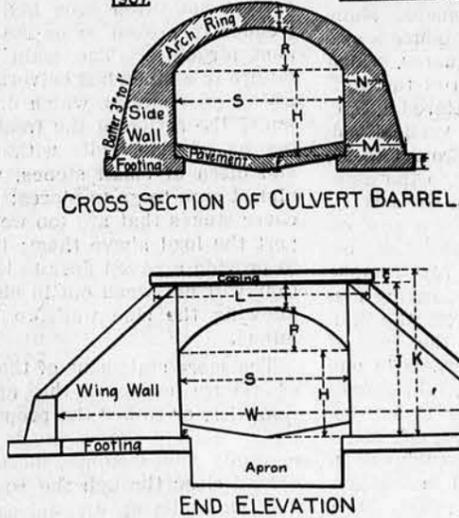
feet is the well-known arch supported on side walls or abutments and flanked at the end by wing walls or simply terminated by a transverse end wall. The writer desires to call attention to certain well-established principles of arch-culvert construction, by adherence to which the greatest possible stability and discharging capacity may be secured for the least amount of money;

low, broad shape has become a favorite one with railroad and highway engineers.

3. A culvert with wing walls that flare out at an angle of about 30 degrees from the direction of the side walls will pass through floating weeds, sticks, and other debris much better than one with simply a square end wall, and will also discharge a some-

design for arch culverts which embodies the principles set forth in the preceding paragraphs and which is in accordance with good recent engineering practise in this line. It is intended to be built of either Portland cement concrete or of rubble masonry laid in cement mortar. The dimensions are indicated on the plans by letters, while in table 3 are given the corresponding

GENERAL PLANS FOR HIGHWAY CULVERTS SHEET No. 2 FOR CULVERTS WITH SPANS OF FROM 8 TO 20 FEET JANUARY 1907 W.C. HOAD LAWRENCE, KAN.



following this statement of principles he will offer a general design for arch culverts, together with tables of dimensions and of quantities for making up estimates.

1. In culverts of this type the use of segmental arches (that is, circular arcs less than a semicircle) is preferable to that of "full centered" or semi-circular arches. A segmental arch

what greater quantity of water. On the other hand, flaring wing walls will cost slightly more than plain end walls on small culverts, though on spans of more than about 6 or 8 feet they will cost less, owing to the great length of end wall required to keep the toe of the embankment from encroaching upon the waterway area.

4. The floor of a culvert of this type

dimensions in feet and inches for the spans.

In this design a segmental arch is employed having a rise equal to one-fourth the span, thus giving a rather broad, low arch. Plain end walls are used for spans of 3, 4, 5, and 6 feet, and the design is shown on sheet No. 1 of the drawings. Sheet No. 2 shows the details for spans of 8, 10, 12, 14, 16,



GOMBALT'S CAUSTIC BALSAM

A safe, speedy and positive cure for

Curb, Sulist, Sweeny, Capped Hock, Strained Tendons, Founder, Wind Falls, and all lameness from Spavin, Ringbone and other bony tumors. Cures all skin diseases or Parasites, Thrush, Diphtheria. Removes all Bunches from Horses or Cattle.

As a HUMAN REMEDY for Rheumatism, Sprains, Sore Throat, etc., it is invaluable. Every bottle of Caustic Balsam sold is warranted to give satisfaction. Price \$1.50 per bottle. Sold by druggists, or sent by express, charges paid, with full directions for its use. Send for descriptive circulars, testimonials, etc. Address THE LAWRENCE-WILLIAMS COMPANY, Cleveland, Ohio.

Tame the Wildest Horse in One Minute!

YOU can! do this by using the mysterious and wonderful Arabian Method. You can tame and subdue instantly the most vicious and ill tempered horse and without the possibility of failure. Send us \$2 and we will teach you the Arabian Method, as used in Arabia for centuries, in ONE LESSON, giving you the secret and full and complete instructions. Easy to understand and extremely simple in operation. YOU CANNOT FAIL. You will excite the wonder of your friends who will consider you a wizard and you can MAKE MONEY by giving exhibitions or treating valuable horses with bad tempers. We make a BUSINESS of furnishing information on ANY SUBJECT. If you want to know ANYTHING and can't find it in any book, catalogue or list, send us \$2 and we will TELL you or RETURN YOUR MONEY.

North American Information Bureau, 3802 Ellis Ave. Chicago, U. S. A.

THE GREAT DURABILITY AND WATERPROOF QUALITIES OF THE FISH BRAND POMMEL SLICKER. Make it First Choice of the man Who Knows. EVERY GARMENT GUARANTEED. IF YOUR DEALER IS OUT OF FISH BRAND, DON'T CHANGE YOUR MIND. HAVE HIM GET THEM OR SEND ORDER AND PRICE TO US. \$3.50 BLACK OR YELLOW. TOWER'S FISH BRAND.

TOP PRICES. Established 1883. BIGGS & KOCH. HIDES, FALLOW, GREASE, BELTS & FURS. Quick Returns. - If you want your shipments to bring you good returns—money-making returns—returns that will give you satisfaction in every way, with full weights and fair selections, good prices and no delays, you will send your goods to us. BIGGS & KOCH, 1406 St. Louis Ave. Kansas City, Mo.

BEEF PRODUCTION

The New Book on the Feeding of Beef Cattle, by Professor Herbert W. Mumford, Professor of Animal Husbandry, Illinois College of Agriculture. The subject is presented clearly and concisely from the cattle feeder's standpoint. The conclusions of experience and experiment have been combined in such a way as to present the latest thought on all phases of cattle feeding. It is authoritative and accurate. The teachings of this book will materially aid cattle feeders in making cattle feeding profitable. Price \$1.50, postage paid.

—ADDRESS— The Kansas Farmer Co. TOPEKA, KANSAS.

8, and 20 feet, these larger culverts being supplied with flaring wing walls. In addition to the complete dimensions for all spans, table 3 gives also the waterway area afforded by each size. Table 4 gives the quantities of concrete or masonry required for each span, those for the culvert barrel being for one linear foot of culvert. For example, a 10-foot arch will contain 62 cubic feet of concrete for each linear foot of culvert barrel, as measured between outside faces of end walls, and 89 cubic feet in both ends. Therefore, if the culvert barrel be 30 feet in length, the total amount of concrete required will be 30 times 62, or 1,860

animal's body is thoroughly disinfected. The application requires less time and works no injury to the animals, and is by far the best method where large numbers of animals are to be treated. On the average-sized farm, a dipping-tank, yards, and draining-pen can be installed at a cost of a few dollars. The expense for the fluid itself is comparatively slight when the great benefit derived from its use is considered, and there is no reason why any farmer should allow his stock to be bothered by the pests and his pocketbook to suffer in consequence.

Dipolene, the dip manufactured by the Marshall Oil Co., Marshalltown, Iowa, is a most effective and economical article for the purpose. It completely destroys all lice and vermin which infest live stock without doing the animals the slightest injury. In another column you will find their advertisement, and it will pay you to look it up. We also urge you to send

TABLE 3.—DIMENSIONS OF ARCH CULVERTS OF CONCRETE OR RUBBLE MASONRY. (To accompany Standard Plans.)

	3	4	5	6	8	10	12	14	16	18	20
R...	9	1-0	1-3	1-6	2-0	2-6	3-0	3-6	4-0	4-6	5-0
T...	9	1-0	1-1	1-0	1-2	1-4	1-6	1-8	1-10	2-0	2-2
H...	1-6	2-0	2-6	3-0	4-0	5-0	6-0	7-0	8-0	9-0	10-0
N...	1-0	1-2	1-4	1-6	1-10	2-2	2-6	2-10	3-2	3-6	3-10
M...	1-4	1-8	2-0	2-3	2-10	3-5	4-0	4-7	5-2	5-9	6-4
E...	4	4	4	4	5	6	6	7	7	8	8
F...	5	6	6	7	8	9	9	10	11	1-0	1-0
B...	2	2	2	3	3	3	3	4	4	4	4
C...	6	6	6	7	7	8	8	9	9	10	10
J...	3-0	3-10	4-8	5-6	7-2	8-10	10-6	12-2	13-10	15-6	17-2
K...	3-6	4-4	5-2	6-1	7-9	9-6	11-2	12-11	14-7	16-4	18-0
O...	1-0	1-0	1-2	1-2	1-4	1-4	1-6	1-6	1-8	1-10	1-10
P...	1-9	2-0	2-4	2-6	...	...	...	...	...	...	...
L...	8-0	11-0	14-0	16-0	10-0	12-4	14-8	17-0	19-4	21-8	24-0
U...	...	...	...	...	1-0	1-2	1-4	1-6	1-8	1-10	2-0
W...	...	...	...	...	19-8	24-3	28-10	33-6	38-2	42-9	47-4
D...	...	...	...	...	7-9	9-6	11-3	13-0	14-9	16-6	18-3
A...	6-5	12	18	26	46	72	103	140	183	232	286

REFERENCES TO LETTERS IN COLUMN 1.

- S—Span of arch, in feet.
- R—Rise of arch; height of wing wall at end.
- T—Thickness of arch at crown.
- H—Height of side walls above footing.
- N—Thickness of side wall at top.
- M—Thickness of side wall at top of footing.
- E—Extension of footing course.
- F—Thickness of footing course used in computations; thickness of pavement.
- B—Projection of coping.
- C—Thickness of coping.
- J—Height of end wall from top of footing to bottom of coping.
- K—Total height of end wall.
- O—Thickness of end wall under coping.
- P—Thickness of end wall at top of footing.
- L—Length of end wall under coping.
- U—Thickness of wing wall at top.
- W—Clear width at end of wing walls.
- D—Projection of wing walls beyond face of culvert.
- A—Cross-sectional area of waterway of culvert, in square feet.

cubic feet in the culvert barrel plus 89 cubic feet in the two ends, or 2,449 cubic feet in all, which, at 25 cents per cubic foot, would amount to \$612. This includes a concrete floor. If concrete paving were set instead the amount of concrete per lineal foot of culvert barrel would be 54.5 cubic feet. (To be continued.)

for their booklet and "Budget" of real letters from farmers telling actual experiences in the treatment and cure of these pests, also how these farmers have stamped out cholera, how they have prevented it. The Marshall Oil Co. will be pleased to furnish any further information in regard to their dip and dipping-tanks. Address them at Marshalltown, Iowa, Department E 1. Kindly mention this paper when writing.

Make Ready for Harvest.

You owe it to yourself to consider in time as to how your crop is to be harvested. A little time given to considering the matter now, will enable you to be fully ready for grain- and grass-cutting. You should have all of your machines in the best of trim, so you can go to work in dead earnest. Getting ready for harvest is the most important thing after seeding. You can't afford to have things go wrong. Delays on account of breakage are expensive and exasperating. Machines that will not work right because of faulty manufacture are still more exasperating.

It is money in the pocket of farmers to buy the best machines that can be had. Particularly is this true with machines that concern the hay and grain harvest. This naturally calls to mind the Champion, Deering, McCormick, Milwaukee, Osborne, and Plano binders manufactured by the International Harvester Company. There are a half-dozen machines from which to choose. You may be urged to buy one or another, according to the local agent you may happen to deal with. A good many experienced farmers think it makes but little difference which one is selected. It is unquestionably true that no mistake can be made by choosing any one of the six.

They have all been on trial many years. All have been improved wherever improvement has been shown by experience to be possible. The International machines afford a good guarantee, perhaps the best guarantee to be had, that your busy harvest work will go uninterruptedly, and that you will get all the grain, with little annoyance, and with the saving of all the unnecessary work, possible both for man and team.

International agents are to be found almost everywhere. That is an important consideration, particularly when you take into consideration the necessary repairs, which are matters that frequently require most urgent haste, and which the local dealers make it their business to look after.

If you are not fully prepared for the coming harvest, look up one or more of the local International agents in your town, get the catalogues, make a study of them, and then talk to the agents about the machines you will need. The agents will have the machines on hand to speak for themselves, and they will be able to answer all your questions.

The Galloway Bike Harrow Cart.

THE KANSAS FARMER is glad to be able to call the attention of its readers to the Galloway Bike Harrow Cart. Mr. Galloway's harrow cart is probably not a new thing to many of our subscribers, and we know that there are a lot of them owning one. On all sides words of praise are heard for Galloway's cart. The Galloway harrow cart ought to be a good one, as we know

This Little Pig Went to Market and Got Top Price

Clean hogs are healthy hogs and make profit. 42 State Agricultural Colleges use Zenoleum on their hogs, and unhesitatingly in Bulletin after Bulletin, recommend you to do the same thing. So do America's most successful hog breeders.

ZENOLEUM

Makes Hogs Wallow in Profit

Disinfectant destroys disease germs, makes sanitary quarters, prevents contagious diseases from taking hold. Famous for warding off and avoiding hog cholera. As a dip, it kills lice, cures mange, eczema, scours, sores, scurvy, canker, surfeit and wounds. *Non-poisonous when taken inwardly*, and is a sure relief from intestinal worms.

Most Dealers Everywhere Sell Zenoleum.

At All Dealers—Small size, 25 cents; Quart, 50 cents; Half gallon, 90 cents; One gallon, \$1.50; Five gallons, \$6.25—or we will deliver one gallon or more, charges paid, to your station. **Ask Your Dealer First.**

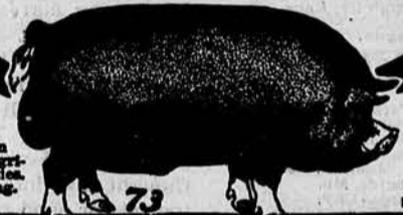
The Zenner Disinfectant Co., 161 Lafayette Ave., Detroit, Michigan.

Free Booklet Veterinary Adviser

64-page book for Stockmen and Farmer's written by Agricultural College Authorities. *Positively free for the asking. Send postal quick.*

OUR POSITIVE GUARANTEE

If Zenoleum is not all we say it is, or even what you think it ought to be, you can have your money back. No talk, no letters,—just money.



Blacklegoids

Simplest, Safest, Surest Vaccination for the prevention of **BLACKLEG IN CATTLE**

NO DOSE TO MEASURE. NO LIQUID TO SPILL. NO STRING TO ROT.

Just a little pill to be placed under the skin of the animal by a single thrust of the instrument. You cannot afford to let your cattle die of blackleg when a few dollars spent on Blacklegoids will save them. Write for circular.

PARKE, DAVIS & COMPANY

HOME OFFICES AND LABORATORIES, DETROIT, MICH.

NOTICE—For a limited time we will give to any stockman an injector free with his first purchase of 100 vaccinations.




The Value of Dip to the Farmer and Stockman.

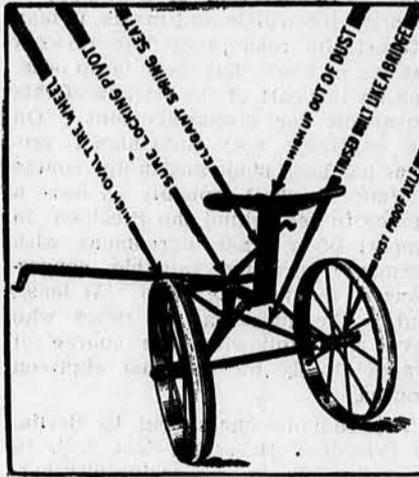
In spite of the fact that the immense loss annually caused to live-stock interests by lice, mites, ticks, and similar parasites has been frequently pointed out in the columns of the agricultural press, a further word along that line will not be amiss.

No sane man would harbor a lot of olives, foxes, or other destructive animals on his premises, knowing that they were destroying or awaiting an opportunity to destroy the animals he was rearing, but did it ever occur to you, Mr. Farmer, that in neglecting to destroy the ticks, lice, and disease germs which infest the live stock of your farm, you are pursuing exactly the same policy? These minute creatures annually cause the farmers of this great country millions of dollars of loss by their ravages on farm animals.

If the farmer will but think a bit, this loss is preventable at small cost and with comparatively little trouble. A dipping tank and a few dollars' worth of a good dip, taking little time and effort, will keep hogs or cattle free from lice of all kinds from one year's end to another. The saving of food alone, to say nothing of the animals' comfort, will in a short time pay for the expense involved. With the present high prices of farm lands, and consequently the high prices of feeding stuffs, no farmer can afford to harbor any insect or germ which will in any way interfere with the health and growth of his animals. As a matter of fact, a majority of diseases which are present the dread of the live-stock raiser are directly traceable to the ravages of parasites which sap the life of the animal, or germs which weaken its constitution and make it more susceptible to disease. By the use of disinfectant fluids which may be brought into direct contact with these parasites of the farm animal, it is possible to entirely destroy them and prevent their harm they would otherwise do. By the removal of the danger of cholera, typhoid, tuberculosis, and similar diseases is greatly decreased, and it is possible to rear large herds successfully without any appearance of these diseases. The use of dip for this purpose is of invaluable assistance. The method is simple, and as before stated, the expense is small. The great advantage of dipping over other methods is in the fact that every part of the

that William Galloway was the originator of the two-wheel cart. It was his first manufacturing enterprise, and he has made a big success of it. His customers speak glowing words of praise about it in his booklet which he sends to any interested farmer on request.

Every farmer ought to own a harrow cart. It is without question a most needed implement on the farm to-day. With one a farmer can save all that hard work and drudgery of dragging behind the horses in the dust while harrowing. Just read Mr. Galloway's



advertisement on page 376 and note the very low price which will buy one of these carts, and then write him for his booklet or send in your order at once. Mr. Galloway does one thing that we publishers like to see, and that is, he puts up his bond, in no small amount either—\$25,000 as a guarantee not only on his cart but of good faith and insurance for the farmer that sends in his cash with order.

Just not the illustration of the harrow cart shown here. It pretty well describes what his cart is like and is only one of several shown in his booklet.

He says he has a new proposition this year—a bigger inducement than ever for every farmer to own a harrow cart. Why not just see what his offer is. Write him to-day and tell him you saw his advertisement in THE KANSAS FARMER. He always likes to know what paper brings him the most business as well as friends.

Mrs. L. D. Arnold is advertising, in our poultry columns, eggs for hatching from White Wyandottes, White Holland turkeys, White African guineas, and Indian Runner ducks. She also has several pairs of guineas yet for sale. Better write her for particulars.

No More Blind Horses For Specific Ophthalmia Sore Eyes. BARRY CO, Iowa City, Ia. Have a cure.



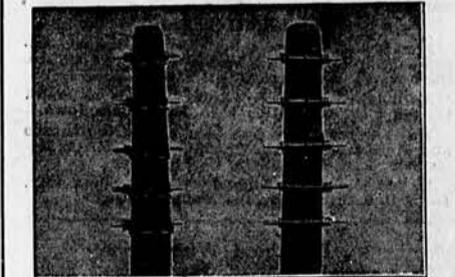
Save YOUR FIGS

Get a Sure Getter Pig Forceps, The Great Veterinary Instrument farmers of the "hog belt" are all talking about. "Gets 'em" alive, saves the mother. Sales mgr. wanted in every Co. Price \$3. Write today. E. C. FOLLET & CO., Box 29, Manlius, Ill.

CEMENT STONE

Build your buildings with cement stone. We can sell you a down face outfit complete for \$30 F. O. B. Wichita. Write for particulars.

J. H. TURNER, -:- Wichita, Kans.



The Banner Cement Post

A Post for the Future as Well as the Present. (Patented)

Adapted to and covering every possible requirement of farm, ranch, railroad, or wherever posts are needed. The best, cheapest, most convenient, most practical wire fastener, and the most durable post ever made. For particulars write

GEO. HASS, Lyons, Kans.

GUNS \$2.95 Double \$6.75

SPORTSMEN'S SUPPLIES. WE SAVE YOU MONEY. Catalog for 3 cent stamp. POWELL & CLEMENT CO. 410 Main St., Cincinnati.

Standard Binder Twine

3 cts. per lb. "Blue Label" Quality with our tag 50 lb. bags guaranteed average length of 600 feet to the pound; guaranteed for evenness, tensile strength and the equal of any on the market. Send for sample and our "No-money-with-order" proposition. Very liberal, very safe and a good saving for you. Delivered prices named to 50 towns. Write today for our Trial Book Special Offer. MONTGOMERY WARD & CO. Chicago and Kansas City

Stock Interests

LIVE STOCK REPRESENTATIVES.
 C. E. SHAFER.....Northern Territory
 L. K. LEWIS.....Southern Territory

PURE-BRED STOCK SALES.
Shorthorns.
 March 21—T. K. Tomson & Sons, Manhattan, Kans.
 March 22-29, 1907—Shorthorns at Kansas City, D. R. Mills, Manager, Des Moines, Iowa.
 April 2—C. E. Lankford & Son, Creighton, Mo.
 April 2—Hadley & Sigmund, Selden, Kans.
 April 12—Andrew County, Mo., Shorthorn Breeders' Association, Savannah, Mo.
 April 13—H. E. Bachelder, Mgr., Fredonia, Kans.
 April 13, 1907—Shorthorn cattle. Annual sale of S. E. Kansas Stock Breeders' Association at Fredonia, Kans., H. M. Hill, Mgr.
 April 19, 1907—John McCoy & Son, Morrill, Kans., sale at Seneca, Kans.
 April 25, 1907—Everett Hayes, secretary Brown County Improved Stock Breeders' Association, Hiawatha, Kans.
 May 22—Henry Kuper, Humboldt, Neb.
 May 31—W. A. Forsythe, Greenwood, Mo.
 June 4—Taylor & Jones, Williamsville, Ill.
 June 11—T. J. Wornall & Sons, Liberty, Mo.
 June 21—Joe Duncan, Osborn, Mo.
 November 6 and 7—Purdy Bros., Kansas City.

Herefords.
 March 22-27, 1907—Herefords at Kansas City, D. R. Mills, Manager, Des Moines, Iowa.
 April 19, 1907—Marshall County Hereford Association, Blue Rapids, Kans.
 April 17—Marshall County Hereford Association, at Blue Rapids, Kans., F. W. Preston, Sec.
 April 16—So. Omaha, Neb., D. R. Mills, Mgr.
 April 19—Sam'l. Drybread, Elk City, Kans.

Aberdeen-Angus.
 March 12, 13—Hal T. Hooker, Mgr., So. Omaha.

Poland-Chinas.
 March 18—Cotta & Mathis, Farmington, Ill.
 March 19—F. A. Dawley, Osborn, Kans.
 March 19—A. L. Hiles, Tuscola, Ill.
 March 20—Dingman & Ward, Clay Center, Kans.
 March 22—W. J. Honeyman, Madison, Kans.
 March 22—J. B. Young, Richards, Mo.
 March 29—E. L. Jimison, Kansas City.
 March 30—A. Glenn, Wichita, Kans.
 April 13—W. A. Davidson and Thos. Collins, Glasco, Kans.
 May 24—Hebbard & Roy, Wichita, Kans.
 June 12—J. Walter Garvey, Thayer, Ill.
 September 19—J. T. Hamilton, So. Haven, Kans.
 October 7—J. S. Wilson, Hume, Mo.
 October 12—U. S. Staton, Independence, Mo.
 October 12—Sam Rice, Independence, Mo.
 October 14—E. E. Axline, Oak Grove, Mo.
 October 17—Charles W. Dingman, Clay Center, Kans.

October 19—Geo. Falk, Richmond, Mo.
 October 21—F. D. Winn, Randolph, Mo.
 October 22—F. A. Dawley, Valdo, Kans.
 October 22—W. N. Messick & Son, Piedmont, Kans.
 October 22—A. P. Wright, Valley Center, Kans.
 October 24—G. M. Hebbard, Peck, Kans.
 October 25—W. J. Honeyman, Madison, Kans.
 October 26—Martin Lents, Atherton, Mo.
 October 26—A. B. Hoffman, Reece, Kans.
 October 28—Bolin & Aaron, Leavenworth, Kans.
 October 29—Leon Calhoun, Potter, Kans.
 October 30—The Big 3, Centerville, Kans.
 November 1—L. C. Caldwell, Moran, Kans.
 November 1—Harry E. Lunt, Burden, Kans.
 November 2—C. E. Shaffer & Co., Erie, Kans.
 November 2—Dietrich & Spaulding, Richmond, Kans.
 November 4—C. S. Nevius, Chiles, Kans.
 November 5—Lemon Ford, Minneapolis, Kans.
 November 5—E. L. Calvin, Bolcourt, Kans.
 November 6—W. R. Crowther, Golden City, Mo.
 November 7—T. P. Sweeney, Hume, Mo.
 November 8—D. E. Crutcher, Drexel, Mo.
 November 8—U. S. Ison, Butler, Mo.
 November 9—H. H. Harshaw, Butler, Mo.
 November 11—Adams & Lorraine, Moline, Kans.
 November 12—W. N. Messick & Son, Piedmont, Kans.

November 12—I. E. Knox and Wm. Knox, Blackwell, Okla.
 November 13—J. C. Larimer, Wichita, Kans.
 November 14—C. W. Dingman, Clay Center, Kans.
 November 16—C. G. Mills, Pleasant Hill, Mo.
 November 18—J. J. Ward, Belleville, Kans.
 November 19—A. & P. Schmitz, Alma, Kans.
 November 19—C. E. Tennant, New Hampton, Mo.
 November 20—Bert Wise, Reserve, Kans.
 November 20—R. E. Maupin, Patonsburg, Mo.
 November 21—F. D. Fulkerson, Brimson, Mo.
 November 21—Everett Hayes, Hiawatha, Kans.
 November 22—C. M. Hedges, Garden City, Mo.
 November 23—F. F. Orsley, Oregon, Mo.
 October 7—T. S. Wilson, Hume, Mo.
 October 15—Bernham & Blackwell, Fayette, Mo.
 October 22—Jas. Mains, Oskaloosa, Kans.
 October 23—John M. Coats, Liberty, Mo.
 February 5—C. E. Tennant, New Hampton, Mo.
 February 6—R. E. Maupin, Patonsburg, Mo.
 February 7—F. D. Fulkerson, Brimson, Mo.
 February 8—Wm. Wingate, Trenton, Mo.

Duroc-Jerseys.
 October 16, 1907—Ford Skeen, Auburn, Nebraska
 Duroc-Jerseys
 November 2—Jos. Lynch, Independence, Mo.
 November 26—Geo. Hannan, Olathe, Kans.
 November 26—Marshall Bros. & Stodder, Burden, Kans.
 January 21—Jas. L. Cook, Marysville, Kans.

O. I. C.
 October 17—Frank Walters, Rockport, Mo.

Horses.
 March 27, 1907—Truman Bros., Kansas City, Mo., Shire and Percheron Stallions.

Combination Sale.
 April 3, 4 and 5, 1907—Herefords, Aberdeen-Angus and Shorthorns, Kansas City, Mo., W. C. McGavock, Mgr., Springfield, Ill.

April 16, 17, 18, 1907—All beef breeds at South Omaha, Neb., D. B. Mills, Mgr., Des Moines, Iowa.
 May 1, 2 and 3, 1907—Aberdeen-Angus, Shorthorns and Herefords, South Omaha, Neb., W. C. McGavock, Mgr., Springfield, Ill.
 May 14, 15, 16, 1907—All beef breeds at Sioux City, Iowa, D. R. Mills, Mgr., Des Moines, Iowa.

Damaged Wheat.

I have some wheat that was damaged by wet weather. Is it as good, after grinding it, for feeding cows, hogs, and horses as corn is? Stafford County. I. D. DESELMs.
 Much depends on whether your wheat was damaged in the shock or whether it has been wet since thrashed. If it was simply rained on in the shock and is badly discolored, its feeding value is perhaps as great as it ever was. Experiments at various stations report wheat to have an equal value with corn for dairy cows. It also has an equal

feeding value with corn for the production of pork, but a mixture of wheat and corn gives better results than either alone, and in some trials has shown as high as a saving of three per cent of the feed.

Wheat has never proven a very satisfactory feed for horses, and where it is fed exclusively there is trouble with them getting off feed, and unless it is well ground a large portion of the kernels pass through the horse unbroken. Small quantities of it may be fed in connection with other grains with beneficial results. If the wheat which you have, has been badly damaged and is mouldy, of course its feeding value will not be so great, but in a general way it may be stated that good, bright wheat has a feeding value equal to corn for most farm animals.
 R. J. KINZER.

Use of Young Stallions.

EDITOR KANSAS FARMER:—I am a reader of your valuable paper, and would like to ask you a few questions. I own a black seven-eighths normon stallion, which will be 3 years old in April. He weighs 1,400 pounds. About how many mares are usually bred to a horse of that age, in a season, and how close together? I bred eleven mares last spring and will get about eight colts. Will it be alright to have him reasonably fat this spring, if he gets plenty of exercise? I have always thought that lots of people have them too fat for good results. I use a bridle on him with a smooth stiff bit, and chain around his jaw, for he is sometimes hard to hold. Do you know of a better bit or an easier way of holding him. I will be thankful for any information you can give me on the above questions.
 J. H. G.
 Marion County.

I would advise you not to let the stallion, coming 3 years old, serve more than fifty mares this season. Forty is what we usually consider a fair number for a stallion of that age. I have served sixty though, with no bad results. It depends greatly on how the stallion turns the mares away. He should never allow a horse of this age to serve more than one mare a day. I would prefer to have the stallion in good fair flesh if given plenty of exercise.
 J. C. ROBISON.
 Butler County.

Reciprocity Battle Coming.

EDITOR KANSAS FARMER:—In view of the disappointment that has been expressed at the adjournment of Congress without action calculated to open the Continental European markets, more especially that of Germany, to America live cattle and meats, it may interest the readers of THE KANSAS FARMER to know that there is no occasion on the part of the friends of this movement for discouragement. On the contrary, very substantial progress has been made and in due course of time, we shall probably all have a chance to get behind the President in support of a trade agreement with Germany carrying valuable concessions to the farming West. At least, that is the judgment of those who have been following the course of events closely for the past eighteen months.

The commissioners sent to Berlin, by President Roosevelt last fall, to discuss the basis of a reciprocity bargain did not return in time for the matter to be put in shape by the State Department for presentation to the late Congress. It must be understood that many important problems are involved and that it would be idle to submit any half-baked proposition of this kind to Congress and the country. The administration is making an honest effort to respond to the demands of the country in this connection and at the proper time will, in all probability submit something for which the West can well afford to fight. Pending the completion of the negotiations, Germany will likely agree to extend the truce which expires under present agreement July 1. While this does not now give us what we are contending for, it means that early opportunity will doubtless be had for endeavoring to effect a permanent and

peaceable settlement to the end that a destructive commercial war may be averted.

I have always believed and still hope, that there is a possibility of inducing Germany to permit the landing of our live cattle for prompt slaughter at Hamburg and Bremen, and if this could be brought about it would bring an element of competition into our leading markets for the lower grades of cattle, that would be of inestimable value to our producers and relieve the gluts that frequently occur, particularly in that branch of the trade. We have emphasized to the administration the importance of securing this concession, if possible, and Secretary Root appreciates fully, the magnitude of the stake to be played for in such connection. It is true that cattle values have been quite satisfactory during the past year but this was not the case, especially in the lower grades of cattle, during the previous year; and no one knows how soon another glut may occur. It seems to me it is a sensible proposition to always regard the future in the light of past experience, and viewed from that standpoint we may reasonably expect recurring periods of depression for both cattle and hogs unless we can in the mean time open new outlets which will materially broaden the demand for our feed-lot output.

If we could gain the markets of both France and Germany for our food products, it would unquestionably work for a steadier range of values in domestic markets. Surely this is a consumation greatly to be desired and I am sure that as this effort continues, we shall have the active support, not only of THE KANSAS FARMER, but of its many readers.

In this connection permit me to say that we are all under lasting obligations to Ex-Senator W. A. Harris, for yeoman service, rendered in this connection. His influence at Washington and throughout the West generally is great and it has been thrown enthusiastically in behalf of this movement to broaden the outlines for the products of Western agriculture.

We can not win our point without a fight. That fact must never be lost sight of; because certain people possessed of great power will not want to concede even the little that must be conceded if the West is to get its just deserts in this affair.
 Chicago, Ill. ALVIN H. SANDERS.

Reestablishing the Canned-Meat Trade.

Some figures have been recently issued by the Government that are held to be of the utmost interest to producers of live stock either on farm or range.

These are the figures on the exports of canned meats from the United States for the year ending December 31, 1906, as compared with the two preceding years. They reveal that total exports of canned beef for 1906 at 35,668,377 pounds, valued at \$3,492,213, show a loss of \$3,928,158 in business to this country as compared with the previous year and a loss of \$1,685,713 from the business in that line done in 1904.

That this is a matter of tremendous importance to the people of the United States who are producing cattle and other classes of live stock that heretofore found outlet through this important trade is a subject of widespread comment at every great livestock center.

During the year 1905 there had been a most encouraging gain in canned-beef export trade to a total of 75,208,035 pounds and a value of \$7,420,371, as compared with 51,158,326 pounds and \$5,177,926 for the year 1904. It is in dollars that loss of trade is best figured, as dollars mean most to the people, and that is shown above.

By far the greater portion of this loss as sustained during the last half the year 1906, when for the six months total exports of canned beef were only 7,661,753 pounds, with a value of only \$651,753, against \$2,740,460 for the first six months of the year. This last half was the very period



Hurry Up the Chicks

Next winter's profits will be greater if you push your chicks to maturity two months ahead of your neighbors. It can be done with proper management. Dr. Hess Poultry Pan-a-ce-a makes digestion in the fowl or chick, a perfect operation. Thus the largest possible amount of the nutrition in the food is converted into bone, muscle, feathers, eggs, etc.

DR. HESS Poultry PAN-A-CE-A

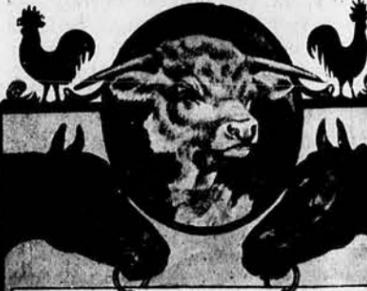
is the prescription of Dr. Hess (M. D., D. V. S.) and is a scientific tonic—a guaranteed egg producer and sure remedy for gapes, cholera, roup, etc. Endorsed by leading poultry associations in United States and Canada, and sold on a positive guarantee. Costs but a penny a day for 30 fowls.

1-2 lbs. 25c., mail or express 40c.
 5 lbs. 60c.
 12 lbs. \$1.25.
 25 lb. pack, \$2.50.

Except in Canada and extreme West and South.

Send 2c. for Dr. Hess 48-page Poultry Book, free.

DR. HESS & CLARK
 Ashland, Ohio.
 Instant Louse Killer Kills Lice.



KRESO-DIP

FOR
SPRING DIPPING
 AND
Hand Dressing All Stock.

PUTS AN END TO
LICE, TICKS, MITES, FLEAS, MANGE, SCAB, RINGWORM, ALL SKIN DISEASES.

Don't waste time and money on inferior dips.

—USE—
KRESODIP
 NON-CARBOLIC. STANDARDIZED.

Prepared in our own laboratories. Ask your druggist for Kreso Dip. Write us for free booklets telling how to use on all live stock.

PARKE, DAVIS & CO.
 DETROIT, MICHIGAN.

BRANCHES: New York, Chicago, St. Louis, Boston, Baltimore, New Orleans, Kansas City, Indianapolis, Minneapolis, St. Paul, St. Petersburg, Russia; Bombay, India; N. S. W.; Tokyo, Japan; Buenos Aires, Argentina.



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 sills. With engine or horse power. Strong, simple and durable. Any mechanic can operate them easily. Send for catalog.

WILLIAMS BROS., Ithaca, N. Y.

Well Drills and Drillers' Supplies
 The best on the market. Manufactured by
TNATONER & SONS, Stillwater, Oklahoma
 Write for circulars and prices.

During which the adverse results of last year's long unwarranted crusade against our meat trade were most intensely felt. Foreign trade in canned meats fell flat and has just recently, during the month of January this year, shown a tendency toward more rapid recovery.

Canned-pork trade, too, had been making most satisfactory progress up to the time business was so hard hit. From a total of 10,516,238 pounds exported, valued at \$1,037,537 in 1904, exports increased in 1905 to 12,435,661 pounds, valued at \$1,177,285, but fell in the disastrous year 1906 to only 993,870 pounds, valued at \$586,856.

This shows that the foreign outlet for our hog products was also narrowed greatly, though to hardly as appalling an extent as canned-beef trade.

This trade as well is showing some evidence of recovery and the whole situation is regarded as more encouraging, though recovery of foreign trade is not as rapid as should be desired for the good of American producers.

Domestic call for canned meats of every class is again urgent and of a very satisfactory volume. Government inspection now thoroughly installed and working perfectly is affording any reassurance that the people of America may have needed the excellence of quality and absolute cleanliness and wholesomeness of all surroundings where canned meats are being produced. Steadily increasing domestic orders go to show that canned goods are again popular with American consumers.

This will very soon have its effect upon foreign trade, where there is even more urgent need of good cheap meat for the masses than in our own country.

Figures shown indicate to every American producer of food animals that the reestablishment of our export trade in canned meats means to agriculturists of this country. With proper increase the coming year will add something like \$4,000,000 to the revenues of American farmers. From this showing, experts who are studying the trade declare that American people in general should bend every energy to the reestablishment of universal confidence in the excellent character of American canned meats. Chicago Drovers' Journal.

Some Leading Features of Beef-Production.

A new and valuable book on Beef-Production is now due from the press. The author is Prof. Herbert W. Mumford, of the Illinois College of Agriculture, whose excellent series of papers is now running in THE KANSAS FARMER. The book is admirably illustrated; the illustrations are not only pictures, but they each mean something; they have been selected with reference to having each one illustrate a fact or principle.

It is printed on an excellent grade of enamel paper and substantially bound in cloth. From a mechanical standpoint it is much better executed than agricultural books in general.

While the principles and details of cattle-feeding practice have received adequate treatment, a large amount of valuable information concerning buying and marketing is included. In fact, this is the first attempt to present the economic side of cattle-feeding, the side which has to do with profit and losses in the business. Each chapter treats of a topic of vital importance to cattle-feeders and cattle-breeders.

While the peculiar advantages of cattle-feeders who operate on a large scale are strikingly brought out, the man who feeds a few cattle and the man who feeds in large numbers will find the book alike valuable.

The conclusions of experiments and experience have been combined in a way as to present the latest thought on all phases of cattle-feeding.

Practically every phase of the subject has received attention. The management of cattle at various seasons of the year, different grades of feed-cattle, different methods of feed-cattle, etc.

The importance of cattle-feeding

"My pigs were dying"



Writes Mr. F. L. Miller, a prominent stock raiser of Beaman, Iowa, after having the above unpleasant and very unprofitable experience not long ago.

And yet he feels he was quite fortunate. You know there's some truth in that old saying that "there's no loss but there's some gain."

Well, in Mr. Miller's case he gained a great deal more than he lost—that's why we say he was fortunate after all.

First, he fortunately obtained the right remedy at once and immediately stopped the death loss among his pigs.

Second, he gained experience that will enable him to prevent such loss and sickness among his hogs in the future and this he values a hundred times more than his loss amounted to.

Third—now he's master of the hog disease problem. The purpose of this advertisement is to tell you how to become master of all stock diseases, too, and before you experience loss if you will act on the advice and do as Mr. Miller did.

And that is—Use Dipolene—the greatest disease preventive and dip ever offered to farmers.

Take advantage of Mr. Miller's experience—don't wait until your stock is threatened, or their death picks your pocket of their value.

Just read this letter. It's more convincing than pages of argument we can write simply because it comes from a fellow farmer who has used it.

MARSHALL OIL CO., Marshalltown, Iowa Gentlemen:—I used your dip on 400 sheep and about 175 pigs. It killed the ticks on both lambs and sheep at the first dipping. Our pigs were dying from sour mouth and skin disease. We dipped them several times and I am satisfied we would have lost a large number but for your Dipolene. I shall always use it.

F. L. Miller, Beaman, Iowa. Isn't that strong evidence. Isn't that actual, convincing proof? Then why take chances. Why put off getting Dipolene and being fortified against loss.

DIPOLENE THE ONE MINUTE STOCK DIP

It will stop all diseases of cattle, horses, sheep or swine; kill lice, ticks, fleas, etc., cure scab, mange or eczema and do it in double quick time.

It not only cures disease but it keeps it off your farm, if you will use it as a preventive by spraying your pens, sheds, barns, etc. To relieve you from any doubt, from any risk in giving Dipolene a trial we willingly make you the following

30 Days Free Trial Offer



Buy a can of Dipolene from your dealer, if he does not handle it then send to us direct—we pay the freight. Try it 30 days and if not as represented, send it back at our expense. All dealers have authority to make this liberal offer. Accept no substitute—there's none "just as good."

Isn't that a fair, open offer? Ask us to send you "A Budget of Real Letters" from farmers—letters like Mr. Miller's in their own words and handwriting—they'll interest you. Also circular on our dipping tank and booklet "Dipping for Dollars"—they're free. If you need a tank ask your dealer to show you our Improved Stock Tank—the best made. Free circular tells why. Round bottom prevents drowning.

MARSHALL OIL CO., Dept. E2, Marshalltown, Ia.



with reference to other branches of agriculture is discussed in such a manner as to encourage larger operations in cattle-feeding and, at the same time, aid those to secure large profits who are engaged in the business. Notwithstanding this, the possible profits of the enterprise are conservatively stated so that the novice or prospective cattle-feeder is not misled. It is a safe guide.

For years the author has been studying cattle-feeders' problems; he knows the questions that puzzle them most. "Beef Production" answers these questions, not in a laborious, round-about way, but in a brief, direct manner that will delight the man who wants to know.

The index is complete so that any subject can be easily found by referring to it.

Berkshire Sale at Kansas City.

One of the most satisfactory sales of high-class Berkshire swine ever held in the West was made at the Kansas City live-stock pavilion, at Kansas City, Mo., March 7, 1907, by June K. King, of Marshall, Mo., and Harris & McMahan, of Lamine, Mo. Buyers were present representing thirteen States. Messrs. King, Harris, and McMahan prepared a most enjoyable surprise in the way of a banquet at the Transient House. Covers were laid for the large company of visiting breeders, who were unanimous in pronouncing the entertainment par excellence. The sale offering was a strictly high class and individual merit, and of most popular blood lines. The great prominence of the herd-boars owned by these men lent considerable interest to those who were attracted to the sale. The late breeding of a number of the sows detracted much from estimates of their values by the bidders and lowered the general average materially. Colonel I. W. Holman, of Fulton, Mo., conducted the sale. He was assisted in the sale ring by L. E. Frost and G. G. Council. Absent buyers were represented by fieldmen, who carried bids on a large number of animals. Apple Blossom 6th, a gilt sired by Premier Duke, sold by June K. King, and Starlight Duchess 2d, sired by General Starlight, sold by Harris & McMahan, tied for the top price of \$300.

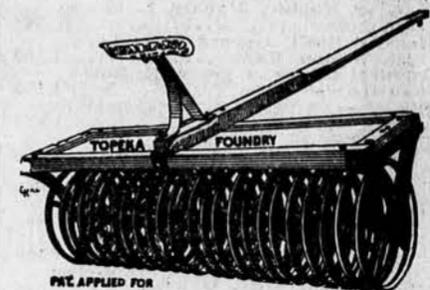
- Consignment of Harris & McMahan: Sunnyside Duchess, Murrel Middleton, Shelbyville, Ky. \$150 Sunnyside Duchess 2d, J. G. Douglas, Shelbyville, Mo. 70 Sunnyside Duchess 3d, W. H. Doran, Laurel Hill, Va. 70 Sunnyside Duchess 4th, Kinlock Farm, Kirksville, Mo. 100 Sunnyside Duchess 5th, J. G. Douglas, 70 Handsome Lady 4th, F. W. Morgan, Beloit, Wis. 50 Handsome Lady 5th, F. W. Morgan Substitute, Eldora Farm, Ralston, Pa. 275 Gilt by Charmer's Duke 23d, J. H. DeBow, Nashville, Tenn. 50 Francis Isabella, Murrel Middleton, Lady Frances, Proctor Gentry, Nashville, Tenn. 70 May Queen 65th, W. H. Merryman, Williamsville, Ill. 60 Sallie Lee 28th, J. D. Baker, Grasten, Mo. 80 Fayette Duchess 2d, J. H. Watkins, Lawson, Mo. 45 Handsome Duchess 13th, Charles Sutton, Lawrence, Kans. 125 Handsome Duchess 14th, M. B. Smallwood, Fayette, Mo. 110 Royal Star 53d, T. F. Guthrie, Saffordville, Kans. 105 Royal Star 54th, J. H. Watkins. 55 Substitute, C. W. Rolf, Champaign, Ill. 40 Premier Duchess 83d, J. B. Holman, Auxvasse, Mo. 75 Sunnyside Queen 21st, F. W. Morgan. 85 Sunnyside Queen 22d, F. W. Morgan. 105 Stumpy Girl 83d, F. W. Morgan. 90 Stumpy Girl 85th, T. F. Guthrie. 65

- Stumpy Girl 89th, J. B. Hall, Halton, Mo. 65 Stumpy Girl 90th, A. G. Clark, Craig, Neb. 60 Stumpy Girl 91st, W. G. Henderson, Brownsville, Ill. 60 Model Lady 41st, T. E. Young, Emmet, I. T. 90 Starlight Duchess 2d, Fred Parcher, Marysville, Mo. 300 Sallie Lee 39th, W. H. Doran. 75 Substitute, by Lord Lee, Chas. Sutton. 155 Sallie Lee 36th, F. A. Stewart, Independence, Mo. 50 Sallie Lee 37th, Geo. Dorrsom, Lancaster, Kans. 45 Sallie Lee 38th, S. P. McCulloch, Cave Hill, Ark. 42 Consignment of June K. King: Artful Beauty 4th, T. F. Guthrie. 70 Premier Baroness, A. G. Clark. Apple Blossom 6th, Eldora Farm. Premier Lady Lee 3d, Dr. Gibbens, Fayette, Mo. 80 Lady Longfellow A, Geo. R. Weller, McFall, Mo. 85 Artful Duchess 4th, Geo. Prine, Oskaloosa, Iowa. 205 Baroness Lady B, 5th, Lee Harrington, Bagda, Miss. 150 Premier Baroness 3d, T. F. Guthrie Baroness Duchess 4th, W. H. Merryman, Williamsville, Ill. 50 Baroness Girl 5th, W. H. Merryman. 145 Baroness Girl 4th, J. D. Baker, Grasten, Mo. 95 Lord Bacon, S. P. McCulloch. Charmer 3d, Dr. Gibbens. 50 Lady Longfellow 20th, C. D. Cripts, Elk City, Kans. 80 Baroness Duchess 3d, H. B. Cowles, Topeka, Kans. 70 Lady Longfellow 21st, J. R. Elliott, Woodward, Iowa. 80 Charmer 3d, Dr. Gibbens. 35 Lady Longfellow 26th, L. E. Frost, Springfield, Ill. 50 Lady Longfellow 27th, W. H. Merryman. 55 Lady Longfellow 28th, H. B. Cowles. 55 Lady Longfellow 23d, Kinlock Farm. 170 Artful's Charmer Duke, John Mansur, Richmond, Mo. 35 Lady Longfellow 24th, W. S. Henderson, Brownville, Ill. 70 Lady Longfellow 25th, S. B. McCulloch. 70 Lord Lee 12th, S. J. Gabbard, Dearborn, Mo. 35 Lady Artful 6th, Dr. Gibbens. 45 Lady Longfellow 19th, Harris & McMahan, Lamine, Mo. 115 Summary: Harris & McMahan's consignment, 32 head, average \$83.35. \$2,667 June K. King's consignment, 24 head, average \$95. 2,280 Total, 56 head, average \$90.13. \$5,047

Monsees & Sons' Record-Breaking Jack and Jennet Sale.

The thirtieth semi-annual sale of jacks and jennets held on March 5, by Messrs. L. M. Monsees & Sons, of Smithton, Mo., at their Limestone Valley Farm, was a record-breaking event. The offering was by far the greatest one of jacks and jennets ever made in the history of the business, buyers being present from such remote points as New Mexico and California. Two years ago the Monsees sale broke all records, when twenty-nine jacks sold at an average of \$704.14, with a \$1,405 top and only three jacks selling for over \$1,000. Last year these gentlemen again broke all records, selling thirty jacks at an average of \$856.16, with a \$1,600 top and nine jacks selling for over \$1,000 each. This year all records were again broken, when thirty-six jacks sold for an average of \$904.86, with a top of \$1,670 and thirteen jacks selling for over \$1,000 each. Eleven jack colts—yearlings and short 2-year-olds—sold for an average of \$380.45. Seventeen jennets sold for an average of \$168.53. Several jennets not bred were included and cut the average. Two 3-year-old mules sold for \$580, making the grand total of the sale over \$40,000. Colonels Harriman and Sparks conducted the sale and were assisted in the ring by Colonels Synder, Burger, Harkies, Wells, Zaun, Ross, and Hieronymus Bros. The day was the finest that Messrs. Monsees & Sons have had for several years and few larger crowds have ever attended their sales.

MOISTURE Should Be Saved



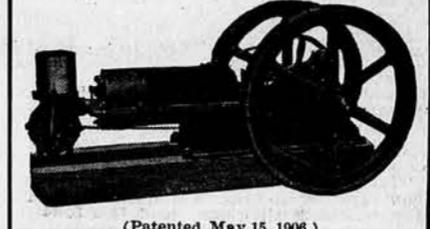
Our Sub Surface Packer

is a moisture savings bank. Write for prices.

Topeka Foundry & Machine Co. 318-320-322 Jackson Street, TOPEKA, KANSAS

WATERLOO VAPOR COOLED GASOLINE ENGINES

The only horizontal vapor cooled gasoline engine in the world. Absolutely frost proof and cannot freeze.



(Patented May 15, 1906.) The king of all gasoline engines. Our catalogue will tell you all about them, also our power and sweep feed grinders. Send to-day. WATERLOO GASOLINE ENGINE CO. 1014 3d Avenue West WATERLOO, IOWA

THE HILTON HOE

A moisture saver: A pulverizer: A weeder: A labor saver: Cultivates row faster than wheel hoe. Operator walks backward avoiding water-wasting footprints. Makes ideal dry soil mulch. Hoe can be worked with either face down. Standard size nine inches wide. Handle six feet long. Write H. R. HILTON, PORT ALLEN, PA. N. B. A short handled model just right for flower beds will be mailed to any address on receipt of 30 cts.

Sixty jack men arrived Monday and every train to noon of sale day brought men from a distance. Following is a list of all sales:

Table listing various livestock sales including Jacks, Jennets, and other animals with their respective owners and prices.

SUMMARY. 35 jacks... \$32,575; average, \$905.14. 11 jack colts... 4,185; average, \$380.45.

Great Shorthorn Sale.

The fourth annual sale of Shorthorns from the well-known herds of S. C. Hanna, Howard, Kans., and H. M. Hill, Lafontaine, Kans., with a contribution from Fred Cowley, Hallowell, Kans., will be held at Fredonia, Kans., Saturday, April 13, 1907.

Imported Collynie (135022) is one of the greatest Cruickshank bulls ever imported to this country and is descended from a famous line of champions and prize-winners.

Collynie blood is largely represented in this offering, which for quality and usefulness can not be excelled.

in April. Three of these are by Collynie out of Mr. Hanna's best cows, two of which are pure Scotch.

Three of his entries are by Captain Archer (a good son of Collynie) who is at the head of J. F. Stodder's Silver Creek Herd, at Burden, Kans., and who is proving himself a breeder of wonderful merit.

Mr. Hill's offering will consist of twenty-five head, largely young stuff, and all females, with possibly one or two exceptions.

There will be two heifers and one bull in the sale by Rosewood. One of the best things in the sale will be a beautiful heifer by Kernsler, he by imported Ingleswood.

W. S. Powell, of Moline, Kans., breeds Hereford cattle and Poland-China swine, and he breeds good ones. He has some very choice cows and heifers.

His herd-bull is Chief Louis, a massive fellow of scale and quality and a good breeder. He was bred by H. M. Hill, Lafontaine, Kans.

Mr. Powell's Poland-Chinas are the big-boned kind with lots of quality. The sows and gilts are of the smooth, roomy type, with lots of vitality, and are farrowing some remarkably fine litters of pigs.

His herd-boars are Perfect I Am 50767 and Wonder 41561. They are big fellows with very heavy bone, great length and depth of body, and plenty of finish. They are excellent sires.

Mr. Powell reports a splendid trade on hogs, and at the present time is practically sold out, but he has twelve sows bred for spring farrow and expects to be on the market this fall with a fine offering.

Good Draft Stallions in Nebraska. Secretary A. L. Sullivan, of the Lincoln Importing Horse Company, at Lincoln, Neb., is as busy as a cranberry merchant in selling stallions.

This company imports and breeds Percheron, English Shire, French Draft, Belgian, and German Coach stallions, and they have enjoyed a very fine trade in all these breeds this season as they always do.

Many of their mature draft stallions weigh from 2,000 to 2,200 pounds, while they now have on hand a fine bunch of 2-year-old Belgians and Shires that will pull down the beam at 1,800 or over.

Mr. Sullivan has been handling these breeds of horses for a long time, and he says they now have the grandest lot of 2-year-old stallions ever brought to this Western country.

They have been selling at close prices for some time, but now intend to cut under their former prices for the next twenty or thirty days in order to make room for their next importation.

If you want a bargain in stallions go and see them or write to A. L. Sullivan, Lincoln, Neb., for information and prices.

Can Asthma Be Cured? Hundreds of Sufferers Who Have Tested Toxicol Say Yes.

New York, March 20th.—Documentary evidence in the form of hundreds of testimonial letters received by the Toxicol Laboratory prove conclusively that asthma and bronchitis can be completely conquered by Toxicol.

Among scores of similar letters, Mrs. Edward McCarthy, of Louisville, Ky., writes: "I have been completely cured of asthma and bronchitis by Toxicol and have recommended it to my friends as I think Toxicol a grand remedy."

Wanted Today 1,000,000 Farmers TO INVEST ONE CENT IN A POSTAL CARD

Advertisement for a bicycle harrow cart. Includes text: "Address it to me. Say on it. Send me your SPECIAL 20,000 Bike Harrow Cart proposition." and an illustration of a man with a bicycle harrow cart.

TEN REASONS WHY You Should Buy the Jawhawk In Preference to Others.

Advertisement for the Jawhawk harrow. Includes a list of 10 reasons and an illustration of the harrow being used on a field.

A Shady Transaction

If anybody sold you some lumber and if upon careful examination you discovered that it was really not solid timber but merely short pieces spliced together you would call it a shady transaction.

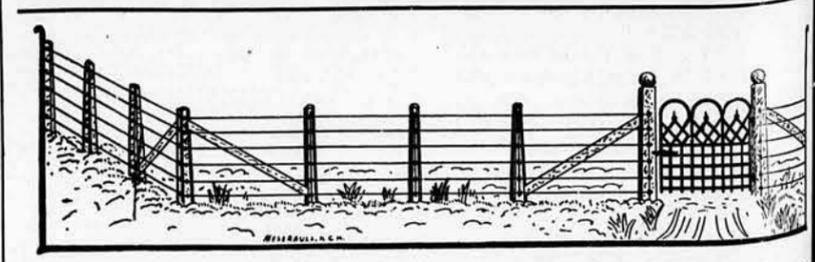
It's really not a first-class, full strength product. About half of its strength is wasted—sacrificed to convenience and speed in manufacture.

30 Days Approval. Let us prove to you that Advance Fence is the best made fence on earth. We offer to ship you all you need on 30 days approval.

Then we will let you be the judge—absolutely. If you do not like it send it back and it won't cost you a cent as we will pay freight both ways and refund to you every cent you paid.

We Prepay Freight and guarantee safe delivery of shipment. You take no risk whatever. Write for our Free Fence Book and Prices.

Advertisement for Advance Fence Co., featuring the company name and address: 57 Old St., Peoria, Ill.



Build Your Fence with Concrete Posts Made of Cement Mortar. There are from TWO to THREE MILLION wood posts going to decay in each county.

THE PARAGON CONCRETE FENCE POST CO., 417 Portsmouth Bldg., Kansas City, Mo.

Agriculture

Preparation of Ground for Corn.

What preparation for a corn-crop this summer would you give ground on which cattle had been fed all winter? The feeding was well scattered over the entire field. There were about two and one-half head of cattle to the acre. The land has grown corn continuously for many years until the past season, when it was in small grain. I have disk, harrow, plow, and lister to work with. Help is hard to get, and I am too short on teams to do more than is pretty certain to pay. Chase County. E. B. GREENE.

If the field in question were on the station farm I have no doubt but that I would plow it in preparing a seed-bed for corn. I would plan to plow as early in the spring as possible, following the plow with the disk or harrow in order to pulverize and settle the soil. Doubtless this land will plow up somewhat cloddy, and immediate cultivation after plowing may be necessary in order to put the soil into good seed-bed condition. However, if plowed early it may not be necessary or advisable to harrow or cultivate at once after plowing, but wait until a heavy rain has thoroughly wet the soil then harrow or disk just as soon as the ground is dry enough. Plowing will almost necessitate surface planting, since the lister will not work well in the loose soil, especially with the litter and trash plowed under. If you have no planter, or you think it is advisable to plant with the lister, then it may be possible to prepare a seed-bed by using a sharp disk harrow early in the spring, perhaps continuing the disking two or three weeks before planting, and then list with the lister in the regular manner.

It is difficult to give advice without examination, and without knowing the exact conditions. A large amount of litter would almost necessitate plowing, while if the ground is very hard and compact at the surface, it would seem advisable to plow. However, if the soil is in condition so that it may be well loosened to a depth of two or three inches with the disk harrow by double disking, this method may be preferable to plowing, should you prefer to plant with the lister.

A. M. TENEYOK.

Manure on Corn Ground.

Will you advise me on this question: Corn grows very slowly here on the start, in fact, weeds do too, but along in June the weeds grow very rapidly. Now, I have plowed about twenty-five acres, expecting to list it and then put manure in the bottom of the furrows before planting, but some tell me that the manure will all go to fodder and that I will not realize much more corn from the ground than if I did not use the manure, as the corn-stalks will utilize all the force of the manure before earing time. Now, my opinion is that the manure will warm the ground, start the corn quicker, and supply plenty of fertilizer to make the corn ear well. Allen County.

M. L. KIRBY.

I would advise to apply a surface dressing of manure on the land in question, now, or any time previous to planting, listing after the manure is spread. Usually I prefer to plow for corn after the manure has been spread, but since you have already plowed, you will have to give a surface dressing. The manure could be spread after the ground was listed as you have suggested. However, you will have little time for spreading manure at that season of the year, and the ground will be in such condition after listing that you can hardly drive over it with the wagon, except to follow the furrows from one end of the field to the other. Also, I believe, on the whole, there would be little gained in putting the manure in the bottom of the furrow. It might have the effect which you have suggested causing a warmer condition of the soil, and will furnish a little plant-

Amatite Should cover every FARM BUILDING

If you are looking for a substantial and satisfactory ready roofing you will find that Amatite answers your requirements better than any other.

You will also find that it costs *considerably less* than most of its competitors. Other roofings add to their cost every year or two, because *they require constant painting*. Amatite costs *nothing* to keep up. It has a *real mineral surface* on the outer side, which takes



the place of the usual waterproofing coat of paint.

You do not have to examine your Amatite roofs every year for leaks, or paint them after a hard winter. Amatite will protect your buildings thoroughly and perfectly year after year, winter and summer, without any attention or bother after it is once laid.

If you have roofings now on any of your buildings that require painting every year to keep them in good repair, the cheapest thing to do is to cover them over completely with new roofs of Amatite as soon as they begin to leak.

Amatite is easy to lay and costs so little that it is better economy to put it on and be free from bother, than to worry along with the kind of roof that requires constant attention.

Amatite is the only ready roofing embodying *every good point* that a roof can possess. Heat and cold, rain and snow, acids and chemicals do not affect it, and in addition to this its real mineral surface makes it one of the best fire retardants known.

FREE SAMPLE

Let us send you at once a SAMPLE of AMATITE and a Booklet of information about it. We want you to see how much better it is than the kind that has to be painted.

Address nearest office of the

BARRETT MANUFACTURING CO.

New York, Chicago, Philadelphia, Cleveland, Cincinnati, Boston, Minneapolis, Kansas City, St. Louis, New Orleans, Allegheny, London, Eng.

food for the corn, but the corn will get the plant-food in any case, and it is likely that the manure in the furrow will interfere with the planting and early cultivation of the corn. I would advise to give a light dressing, spreading the manure thinly and evenly over the ground.

There is no question but that manure will cause an increased growth of corn and an increase in yield. By plowing under a surface dressing of about fifteen loads of manure per acre, in the spring of 1903, we increased the yield of corn on an average of eighteen bushels per acre. This was on the ordinary upland soil of the station farm. It is true that the manured corn will make a ranker growth of stalks, and this is necessary to produce a large crop of corn. It is possible, of course, to use too much manure which may cause a large growth of stalks which may give a less yield of grain than a smaller growth of stalks, especially in a dry season. In general, however, I very heartily rec-

ommend the use of barnyard manure in the growing of corn.

I have mailed you a copy of circular No. 3, giving information regarding the use of manure.

A. M. TENEYOK.

Bermuda Grass—Rocky Land.

I enclose you a clipping taken from the Drovers' Telegram in regard to Bermuda grass.

"The two and one-half acres of upland that were planted to hardy Bermuda grass on June 29 and 30, 1906, have been cut for the third time this season.

"The first cutting in the season of 1906 was made June 12. The total yield of cured hay from the field was 13,145 pounds, or at the rate of 5,658 pounds per acre.

"The second cutting for 1906 was made August 2. The rainfall from June 12 to time of second cutting was 6.53 inches. Before the second crop was fully cured it began raining again and 5.36 inches of water fell on the

hay before it was hauled in and weighed, August 15. This thorough leaching reduced the weight materially, but the final weight of dry hay was 7,275 pounds from the two and one-half acres, or 2,910 pounds to the acre.

"The third cutting was made September 18, and the hay cured without being rained upon. The total yield of cured hay for the field was 7,840 pounds, or at the rate of 3,136 pounds per acre.

"The total yield of hay per acre for the season was 11,704 pounds or 5.08 tons. Land of the very same nature adjoining this field does not produce over one-half of prairie hay of inferior quality.

"Bermuda hay contains twice as much digestible nutrients as the best of prairie hay, is much more palatable, free from stems and weeds, and in every way superior to hay made from wild grasses. It is time farmers were beginning to wake up to the possibilities of this remarkable grass,

not only as a pasturing grass but also as a hay crop.—From Press Bulletin No. 137, issued by the Oklahoma Agricultural Experiment Station."

Is there any grass of that kind that grows tall enough for hay, and do you know how it does in Kansas? All that I ever saw was very short and thick. If it is a success, can you tell me where the seed can be obtained?

How early will it do to sow alfalfa in this locality, in the spring?

I have considerable area of rocky ground, on which but little grass grows. What kind of grass can I put on this ground that will stand the dry weather and make pasture? In many places the rocks are small and the ground could be plowed.

What would Johnson grass do on that kind of ground, and when should it be sowed? Can you name any other grass that you think would be more profitable? J. W. SUTHERLAND, Wilson County.

Bermuda grass (*Cynodon dactylon*) is a creeping perennial. The creeping stems produce nodes or joints at intervals, and each node is capable of producing a new plant. These stems extend laterally, sometimes twelve to fifteen feet, in a single season, and the joints take root as they come in contact with the earth. From the underground creeping stems arise numerous leafy branches four to ten inches in height, and this is the part that is cut for hay, furnishing usually a light yield at a single cutting, but the hay is very nutritious and of good quality because of the large percentage of leaves. The grass may be cut for hay several times in a season. Usually the yield of hay would be very light on soil of ordinary fertility, but if heavily fertilized the grass grows much more rapidly and rank. In one report when nitrate of soda was used as a fertilizer, yields of ten tons of hay per acre were harvested in a year. On ordinary land, without fertilization, however, the yields of hay usually do not exceed two to three tons per acre, and to secure this yield the grass must be cut several times in the season.

Bermuda grass has always been considered more valuable for pasture than for hay. It is unquestionably the best pasture-grass in the South, but it is a warm-weather grass and is not adapted for growing in Kansas except perhaps in the southern counties of the State. We have a patch of it at the Kansas Station which has stood now for two winters. However, in previous trials the grass has always been winter-killed sooner or later. It is possible that hardy varieties may be introduced. The grass is being grown some in your section of the State, and several farmers have reported that it is apparently hardy. I have mailed you a circular letter giving information regarding the planting and culture of Bermuda grass.

I would recommend to sow alfalfa just as soon as the spring fairly opens and the soil may be put into good seed-bed condition.

It is a hard proposition to start grass of any kind on rocky, hilly land. Also, none of the domestic grasses are apparently well adapted for growing on such land as you describe. Perhaps the native grasses will succeed better and give a larger return on such land than domestic grasses which you may sow. Doubtless the land has been pastured too closely and the native grasses make little growth on this account. If the stock could be kept off of this land a year or so and allow the grass to grow and seed, it would thicken up and again be more productive.

In some parts of Southeastern Kansas I understand that the Japan clover grows very well on poor and otherwise barren land. This is an annual plan better adapted for growing in the South, but seems to be fairly hardy in Southern Kansas, after it has once been established. Japan clover and Bermuda grass are worth experimenting with under the conditions which you name.

On fertile soil and favorable location you should be able to secure permanent pasture by sowing Kentucky blue-grass and white clover, but I

TWO PIANOS! CASH! BIG PRIZES FREE!



If this chart gets destroyed another printed upon heavy paper will be sent upon receipt of 2c stamp for postage.

CONDITIONS—50 cents pays for a year's subscription to **SUCCESSFUL FARMING** and one count; \$1.00 pays for two years and three counts and makes you eligible for the special \$50.00 prizes given to winners of its prizes if they have three counts. See below.

AWARDS will be made as follows—The person giving correct or nearest correct count will get first prize. Next nearest second, etc.

\$50 PRIZES—We believe everybody should have three counts so they can have one each side of what they think is correct to be more sure to hit it. To encourage this we will give \$50.00 extra to winners of 1st prizes if they have three counts. Remember if you have one count you get piano only, but if you have three counts you get \$50 extra.

TIME PRIZES—\$25.00 Extra. We feel early counters should be rewarded and we will give \$25.00 extra to the person winning piano if count is mailed by May 15th.

OUR RESPONSIBILITY—We are a responsible business house, and every prize must be and will be paid as stated. We refer to Iowa National Bank, Central State Bank, German Savings Bank; in fact any Bank, Express Company, business house or individual in Des Moines, as well as Dun or Bradstreet's Agency, or the publisher of this paper.

JUDGES—We have wholly disinterested judges to award prizes. Here is what they say:

TO WHOM IT MAY CONCERN: We have been asked by the publishers of **SUCCESSFUL FARMING** to act as judges in their contest and see that prizes are all awarded fairly. This we will gladly do guaranteeing each contestant absolute fair treatment. Signed—W. W. MORROW, Treasurer State of Iowa; HUGH BRENNAN, Judge District Court; Rev. A. J. WILLIAMS.

In case of tie we will write each person so tied asking them to make as few words as possible from the letters of the alphabet, using each letter of the alphabet twice and only twice, and no one word more than once, each letter left over counting as one word. To the one tied in the counting who gives us the fewest words as above will be awarded first prize. This practically eliminates all question of tie, but if there should be any possibility be a tie in this the prize will be divided equally between those so tying.

Subscription without counts is 25 cents per year, additional counts after you have three entered as per our terms in paragraph "condition" above may be entered at 25 cents each.

This contest is not to be confused with the guessing or estimating contests. Our contest is a test of skill in planning and counting and the best person wins. Nobody connected with our paper will be allowed to compete. Contest closes June 30, but get your counts in at once. See about time prize above.

CAN YOU COUNT THESE DOTS?

SUCCESSFUL FARMING WILL GIVE TO THOSE WHO CAN COUNT THE DOTS IN THE PIANO CORRECTLY OR NEAREST CORRECTLY, THE FOLLOWING LIST OF PRIZES: CAN YOU DO IT?

- Two Elegant Pianos, one to a lady and one to a gentleman.
- 2nd. Two Hundred Dollars Cash.
- 3rd. One Hundred Dollars Cash.
- 4th. Fifty Dollars Cash.
- 5th. Twenty-five Dollars Cash.
- Next 5. Ten Dollars Each.
- Next 10. Five Dollars Each.
- Next 25. Two Dollars Each.

CONDITIONS: 50 cents pays for one year and one count. \$1.00 pays for two years and three counts. You get \$50 extra if you have three counts. It will pay you to have three. See conditions below.

DON'T DELAY!

IF YOU WANT A PIANO OR OTHER PRIZES **SEND YOUR COUNTS AT ONCE**

PRIZE WINNERS IN PAST CONTESTS

A Piano for \$1.00. Surely people may enter your contests knowing that they will receive fair treatment. How glad I was to win a piano for so small an amount and wholly unexpected. The paper alone is worth all I paid.



MRS. L. W. NOTT, Marion, Iowa.

He Won a Piano. Refer people to me if they want to know whether you are honest. I got a piano for a prize and never heard of you until I answered your ad. Your paper is worth twice the subscription price.



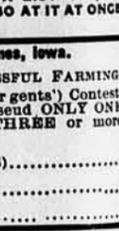
W. C. ELLIOTT, Audubon, Ia.

\$100.00 Prize. I got my \$100 and it was the easiest I ever earned. The dots are hard to count but I know the prizes go to those who win them fairly.



W. C. ELLIOTT, Audubon, Ia.

Won \$350 Cash. To Whom It May Concern: I won grand prize of \$350 Cash in last contest. I was much surprised. I am recommending you to all my friends and you are at liberty to use my name as reference any time you wish.



EUGENIE FOURNIER, Matane, Quebec.

OTHERS WHO HAVE WON:

Pianos—Myra A. Fursman, Panola, Ill. E. L. Jones, 83 Cottage Ave., Ansonia, Conn. Mr. Libbie Grullick, St. Paul, Minn. W. S. Keever, 817 Freeman St., Cincinnati, O. J. Gemachlich, Kensington, Kan. Edith Hutchinson, Leonard, North Dakota.

\$100—Eva I. Buckner, Fredonia, Kas. C. S. Wyman, Vinton, Iowa. E. M. Hall, Montrose, Mo. J. W. Smith, Rome, Ohio.

\$50—S. Irving Steyer, 225 E. Balt. Baltimore, Md. L. F. Simson, Arcata, Calif. A. J. Perdue, Altoona, Ia. Albert Peterson, Holdrege, Neb. Chas. McBride, Peoria, Ill. Jos. Unser, Bellevue, O. Mrs. D. H. Stoner, Granger, Ia.

THESE ARE BUT A FEW OF MANY. WE COULD GIVE A LIST OF HUNDREDS. YOU MIGHT AS WELL BE A WINNER IF YOU GO AT IT AT ONCE.

Publisher **SUCCESSFUL FARMING**, 415 Tenth St., Des Moines, Iowa.

I enclose \$..... for subscription to **SUCCESSFUL FARMING**, and I wish to enter the..... (write ladies' or gents') Contest. If \$1.00 is paid send three counts; if only 50c is paid send **ONLY ONE** count. The extra \$50.00 go only to those having **THREE** or more counts entered.

My count is: (1).....(2).....(3).....

NAME.....

P. O..... State.....

Address all letters to **SUCCESSFUL FARMING, 415 Tenth, St., Des Moines, Iowa.**

THE TOWER SURFACE CULTIVATORS

Raise this highest type of corn because the roots were not cut. Will do fully as well for Cotton, Potatoes, Tobacco and Garden Truck. Will kill cocklebur, peavines, foxtail, quackgrass and other noxious weeds. Will preserve moisture during dry spells; kill weeds in wet weather. Will increase yield. Will ripen crops earlier. Easier on man and team. Made in three sizes—one, two or three horses—for cultivating one or two rows. Send for "Treatise on Corn Culture," FREE.

The J. D. Tower & Sons Co., 14th Street, Mendota, Ill.

doubt whether the clover or blue-grass will thrive on the rocky land, especially in the dry seasons. Johnson grass is another Southern grass which is less adapted for growing in our State than Japan clover and the Bermuda grass, but where it does grow it is considered a pest, and I do not consider it a valuable grass to sow under the conditions named.

I have mailed you a circular on Japan clover. A. M. TENEYCK.

Oats Questions.

I wish to sow twelve acres of oats on a piece of bottom ground, that was prepared and sown to alfalfa last fall. It was double disked and dragged after each rain all last summer, and is now mellow about three inches down. One rarely sees a field of oats in this vicinity. I have never sown them. How shall I prepare such ground? How early would it be safe to sow them? Where and how can I get good seed? C. Q. SMITH, Shawnee County.

At this station the Sixty-Day oats have given the highest average yield for the last three years, the Kherson ranking second, and the Red Texas third. These varieties should also succeed well in Shawnee County. You can buy seed of Red Texas oats from

any reliable seedsman. The Kherson oats are also sold by seedsman. I refer you to the Barteldes Seed Co., Lawrence, Kans., and to the Griswold Seed Co., Lincoln, Neb. We have about a hundred bushels of the Sixty-Day oats for sale at \$1 per bushel, or 75 cents per bushel in lots of ten bushels or more. Sow about two bushels of oats per acre.

The land described may be prepared for sowing simply by harrowing or perhaps by disking and harrowing. It will not be necessary to plow. I would advise to sow the oats as soon as you can get the land into fit condition; the earlier the better. A. M. TENEYCK.

Cow-Pea Question.

Can I sow cow-peas after taking a crop of oats off the ground, and if so ought the ground be plowed or double disked? When is the best time to sow? Shall I drill with wheat-drill or double-row with corn-planter? Labette County. A. C. BIRNEY.

Cow-peas may be sown after the oats are harvested if the purpose is to grow the crop for forage. You cannot expect the peas to mature seed if they are planted at so late a date. I would advise disking immediately after the binder, following the disk

harrow with the disk drill, planting the peas in drills six to twelve inches apart, which will require three to four pecks of seed-peas per acre. No further cultivation is necessary when the peas are planted in close drills in this manner. It is a practical method to plant in rows with a corn-planter and cultivate the crop. Doubtless the named plan will have a more beneficial effect on the soil than the first plan described, although it means more work. It may be necessary also to plow, provided you plant with the planter, in order to secure a clean surface for planting and cultivation.

We have had very good success at this station in planting cow-peas in the stubble immediately behind the binder, preferring to disk ahead of the drill. For more detailed information on the subject, I have mailed you a copy of circular No. 8, on cow-peas. A. M. TENEYCK.

Seed-Bed for Alfalfa.

I would like to have your opinion on the following: I have about ten acres of corn ground that I want to sow to alfalfa next fall. I thought of putting it into oats in the spring, but as oats do not do very well in the average year, I thought I would get more off of the land by sowing

to millet. How can I prepare the best seed-bed for sowing alfalfa in early fall? Should I plow or disk up this corn land for the millet, and then again which is best for the alfalfa, to plow in the spring or after harvesting the millet. I would rather plow before sowing the millet as I have more time now than I will have after the millet is taken off. The soil is rich bottom land and fairly clean of weeds. I would thank you in advance for any information on this subject.

E. L. SCHUERMAN.

Dickinson County.

Millet makes a very good crop with which to precede fall sowing of alfalfa, but is perhaps not superior to oats. Thirty acres of millet will produce a large amount of forage, which you may not be able to dispose of, unless you can feed it on your own farm. As a rule, I would prefer to disk and harrow stubble ground after harvest, continuing the cultivation at intervals until seeding time, in preference to plowing. As you have suggested, it is preferable to plow before sowing the millet rather than after the millet is harvested. It is usually difficult to secure a well-settled, finely pulverized seed-bed by plowing in the fall previous to sowing the alfalfa.

I have mailed you a copy of bulletin No. 134, giving more detailed information regarding the seeding of alfalfa.

A. M. TENEYCK.

Crop Rotation.

I have eighty acres which I wish to try crop rotation on and wish to raise the following crops; wheat, corn, and oats, also ten acres of millet hay, ten acres of sorghum or cane-hay, and change with clover. Please give plan

used. I take it however, that you would have a supply of manure, and would suggest manuring during the growing of the forage crops, either between the two forage crops or immediately after the last forage crop was harvested—namely, between that and the oats.

A better division of the land would be into four fields of twenty acres each, and such a division may be made subject to an eight-year rotation on four fields as follows:

Clover two years, corn and sorghum one year, oats and millet one year, wheat one year, corn and sorghum one year, oats and millet one year, wheat one year, followed again with clover. This plan has the advantage of the other in that no single crop follows itself in succession. However, a single field will not always be devoted to a single crop; namely the sorghum may be grown in the same field with the corn, since both are late maturing crops, and each will have a similar relation to the soil and to the crop succeeding them. Again oats and millet are suitable crops for growing in the same field, since each crop matures and is harvested early enough so that the ground may be prepared for wheat. By adopting such a plan, the farm would produce, each year, twenty acres of clover, twenty acres of wheat, and ten acres each of corn, sorghum, oats, and millet, or the twenty acres could be divided between corn and sorghum, and oats and millet, in such proportion as may be desirable. With this plan of rotation, I would manure after the wheat, previous to planting corn and sorghum. The eight-year rotation plan is exhibited as No. II.

PLAN II.—EIGHT-YEAR ROTATION ON FOUR FIELDS.

Year.	Field 1.	Field 2.	Field 3.	Field 4.
1907*	Wheat	Corn and sorghum	Oats and millet	Wheat
1908	Clover	Oats and millet	Wheat	Corn and sorghum
1909	Clover	Wheat	Corn and sorghum	Oats and millet
1910	Corn and sorghum	Clover	Oats and millet	Wheat
1911	Oats and millet	Clover	Wheat	Corn and sorghum
1912	Wheat	Corn and sorghum	Clover	Oats and millet
1913	Corn and sorghum	Oats and millet	Clover	Wheat
1914	Oats and millet	Wheat	Corn and sorghum	Clover
1915	Wheat	Corn and sorghum	Oats and millet	Clover
1916	Clover	Oats and millet	Wheat	Corn and sorghum

*The rotation actually begins in 1908.

of fields and best methods to follow through columns of THE KANSAS FARMER. Any bulletins you may have on crop rotation will be greatly appreciated.

FRANK E. BOBST.

Leavenworth County.

To carry on a rotation with clover and grow the crops each year which you name in your letter, on your farm of eighty acres, either one of the following proposed plans may be practised.

One farm may be divided into five fields of sixteen acres each. On each field the order of rotation will be as follows: Clover two years, corn two years, forage crops two years, oats two years, wheat two years, followed again by clover and so on. The plan proposes to seed clover in the wheat early in the spring. It would be advisable also to sow a little grass with the clover, either English blue-grass, timothy, or Bromus inermis. This ten-year rotation plan is exhibited as plan No. I.

PLAN I.—TEN-YEAR ROTATION ON FIVE FIELDS.

Year.	Field 1.	Field 2.	Field 3.	Field 4.	Field 5.
1907*	Wheat	Oats	Forage	Corn	Wheat, oats or corn
1908	Clover	Wheat	Oats	Forage	Corn
1909	Clover	Wheat	Oats	Forage	Corn
1910	Corn	Clover	Wheat	Oats	Forage
1911	Corn	Clover	Wheat	Oats	Forage
1912	Forage	Corn	Clover	Wheat	Oats
1913	Forage	Corn	Clover	Wheat	Oats
1914	Oats	Forage	Corn	Clover	Wheat
1915	Oats	Forage	Corn	Clover	Wheat
1916	Wheat	Oats	Forage	Corn	Clover
1917	Wheat	Oats	Forage	Corn	Clover
1918	Clover	Wheat	Oats	Forage	Corn

*The rotation actually begins in 1908.

Since the fields are only sixteen acres in area you would grow on the farm each year, after the rotation was introduced, sixteen acres each of clover, wheat, oats and corn, and eight acres each of millet and sorghum. During the interval of ten years the whole farm will have been cropped with clover for a period of two years. Eight crops intervene between breaking the clover and its reseeded again, which makes a rather long period, provided the clover is the only fertilizer

with winter wheat this spring. Some have been successful by this method.

Ottawa County. R. O. BAGGERLY.

I would advise to seed the alfalfa in the fall rather than in the spring on the land which you describe. The crab-grass would be almost sure to smother the alfalfa, at least injure the stand if sown on such land in the spring. Your method of sowing oats as a crop to precede the fall sowing of alfalfa is a usual practise. You may plow immediately after harvest and by

Your shoe money will go twice as far if you buy the strong, well-made and hard-to-wear-out

Mayer

SCHOOL SHOES

for boys and girls. They are made of the best seasoned upper leather and tough solid soles and have fewer seams than other shoes. Mayer School shoes are shaped to prevent injury to growing children's feet. They

WEAR LIKE IRON

Your dealer has them or will get them for you—take no other. The Mayer trade-mark is stamped on every sole.

We also make the "Honorbill" shoes for men and "Western Lady" shoes for women.

F. Mayer Boot & Shoe Co.
Milwaukee, Wis.

A PERFECTION

Insures Bigger Crops and Better Crops

It will clean, separate and grade your corn, clover, alfalfa, kaffir corn, oats, wheat and any other kind of grass seed or grain you raise.

We will ship you a Machine on trial, with freight prepaid, and you can convince yourself that it is just what you need to produce better crops.

"Better Entitled to Its Name Than Any Piece of Machinery He Had Ever Seen." So Writes J. B. McAfee, of Topeka, Kans.

Dear Sirs:—I have carefully examined the workings of the "Perfection" Seed Cleaner, and believe it is better entitled to its name than any piece of machinery I have ever investigated. We have one in use on the farm, and would not part with it for many times its cost if another could not be obtained. It deserves its name, "Perfection."

Very truly yours,
J. B. MCAFEE.

Our separate corn grading machines will grade corn 98 per cent perfect and will insure a **BUMPER CORN CROP.**

Write us today and we will tell you all about our machines. Tell us what kind of grain you raise and we will send samples cleaned on the

Perfection.

THE LEWIS-TUTTLE MFG. CO.,
305 A Kansas Ave., Topeka, Kans.

We Ship on 30 Days Trial
And We Guarantee Our Customers Prompt Shipment

WRITE A POSTAL CARD FOR LARGE ILLUSTRATED CATALOGUE V-152. It is the most complete catalog of vehicles and harness ever printed. The cuts are made large so as to show you just how each vehicle is made. The two center pages show a colored plate 9x11 inches, of our CHICAGO SPECIAL BUGGY, reproduced in the actual colors just as it is painted and finished. The descriptions are complete and plain. All vehicles are shipped direct from our factory. Our prices are the very lowest. Be sure to see our astonishingly low prices and the most liberal terms ever offered. **Marvin Smith Co., Chicago, Ill.**

THE BANNER RIDING ATTACHMENT

Will fit on any right or left hand wood or steel beam walking plow, lister, sod breaker, middle breaker or harrow. ALL OF THIS WITH THE SAME ATTACHMENT. A wrench all the tool for attaching. Is regulated by levers, same as a regular riding plow. Plow or lister may be adjusted to depth from 1 to 12 inches, and from 8 to 24 inches width. Lifts point out of the ground for moving. Made of malleable iron and steel; no wood or hard castings. 28-inch wheel with removable box, 2-inch oval tire, 1 1/2-inch solid steel axles, steel levers, pressed steel seat—the best of material used throughout. Weight complete 110 lbs., and will cause plow or lister to stay in as hard ground and do as good work as any riding plow or lister. 15.00 now in use. **WE GUARANTEE EVERY ONE.** Only \$15 from your dealer, or delivered by us to your nearest station. We want an agent in every locality and we prefer men who use plows. Write for terms and full descriptions. **THE IMPLEMENT AND MFG. CO., Coffeyville, Kans.**

STARK NURSERIES sell Direct pay freight, give FULL value Founded 1825. Large NEW Fruit Book free. STARK BRO'S, Louisiana, Mo.

HEALTHY TREES HONEST IN QUALITY WE PAY FREIGHT Grafted apple 4c, budded peach 4c, budded cherry 15c. Concord grapes \$2 per 100. Black Locust \$1 per 1000. Complete colored cat. free. Galbraith Nurseries, Box 29, Fairbury, Neb.

TREES THAT GROW Apples 4c, Peach 5c, Plums 15c, Cherries 15c. Best quality good bearers, grafted stock, not seedlings. Concord Grapes 2c. Forest Tree Seedlings \$1.00 per 1,000 up. We pay the freight. **BERNARD NURSERIES & SEED HOUSE, Prop.** We have a complete line of Vegetable, Flower and Farm Seeds. Our large illustrated catalog free. **GERMAN NURSERIES, Box 9, BEATRICE, Neb.**

EVERGREENS Nursery grown, hardy everywhere. All sizes for all purposes, lowest prices. 50 bargain lots, first class, prepaid \$1 to \$10 per 100. Also Nursery grown Forest Trees. **FREE**—One beautiful Black Hill Spruce to every customer. Send for free Cat. and Bargain Sheet. **D. Hill, Evergreen Specialist, Box 54, Dundee, Ill.**



LET US FURNISH YOU our very low prices on grafted apple, budded peach, plum and cherry in all sizes; also evergreens, roses and ornamentals of all kinds. Catalogue free. **Gage County Nurseries, Box A, Beatrice, Neb.**

PLANT JACK PINE On sandy land in Kansas, Nebraska and northward. Jack Pine from Minnesota is most rapid evergreen for profit. As I supplied the very successful Jack Pine for the Government plantation in Holt County, Nebraska, in 1890, I probably know how to pack. I have a million vigorous seedlings. **H. B. AYRES, Aitken, Minn.**

YIELD COUNTS The Famous Hildreth Yellow Seed Corn, winner of first premium and sweepstakes at Hutchinson State Fair, and Corn-Breeders' Contest at Manhattan. Our corn won second in yield (103 bushels per acre) and the acre measured was not given any special treatment whatever. We have a large amount of good seed for sale. Write early for price. The Deming Ranch, J. G. Haney, Mgr., Oswego, Kans.

RED, RUST PROOF TEXAS OATS, pure red clover, timothy and alfalfa seed, white kafir corn and sweet corn all reclaimed seed and fancy of quality. A grand lot of Barred Rock cockerels; Poland-China males and girls, the great big kind, an extra growing lot of fall pigs. John D. Ziller, (he raises corn), Hiawatha, Kans.

FIELD'S SEED CORN Sold ear or shelled. All graded, tested, proven—then guaranteed. No better at any price. Test it in your sprouting box. If you don't like it—fire it back. You'll get your money back double quick. "Guaranteed-pure" Clover seed. Garden seeds that will really grow. Catalogue and samples free. **HENRY FIELD, SEEDSMAN, BOX 55, SHENANDOAH, IOWA.**

GREGORY'S SEEDS For over fifty years we have been selling only tested seeds—seeds that we guarantee to be fresh, pure and reliable. To-day thousands of farmers and gardeners rely upon Gregory's Seeds—know for a certainty they are sure growers. Our free catalogue is now ready. It contains lots of information of value to farmers and gardeners. **J. J. H. GREGORY & SON, MARBLEHEAD, MASS.**

Make More MONEY on Fruit Everyone who grows fruit should be interested in getting MORE PROFIT from his FRUIT crops. **THE FRUIT-GROWER** is a handsomely illustrated, 75-p. monthly. Treats of fruit growing, gardening, poultry raising, on a large or small scale. Every farmer needs it. \$1 a year, but will be sent 3 months FREE on trial if you will notify us to stop or subscribe after trial. **The Fruit-Grower, Box 105, St. Joseph, Mo.**

the use of the harrow, destroy the weeds and prepare a good seed-bed for sowing about the first of September, or else the oats stubble may be disked immediately after harvest and the disking or harrowing continued at intervals until seeding time. Should you plow preceding the sowing of the oats, the last method may be preferable, or if the land is not plowed this spring it may be advisable to plow immediately after harvest, taking care to harrow and cultivate several times so as to thoroughly pulverize and settle the soil before seeding the alfalfa.

Your plan of allowing the land to lay fallow, plowing about the middle of the summer, would probably insure a better stand and a larger growth of alfalfa than may be secured by sowing oats. However, much the same treatment as already described would have to be given the land after it was plowed in order to prepare a good seed-bed, then you would lose a crop, which may not be necessary.

If you are very anxious to seed this land at once this spring, you might do so after clearing it of weeds as follows: Disk the corn land at once as soon as spring opens and continue the disking at intervals of a week or ten days until about the middle of April or the first of May, when the alfalfa may be sown. By this thorough culture treatment, most of the weed-seeds in the surface soil will have sprouted and have been destroyed giving a comparatively clean seed-bed for seeding the alfalfa. This means a lot of work however, and possibly the other plan would prove nearly as successful, since early fall-seeded alfalfa often yields nearly a full crop the first year after seeding.

Although alfalfa has occasionally been sown with winter wheat with good results, yet this cannot be considered a safe method for getting a good stand of alfalfa. If the season is dry or if the wheat makes a rank growth, the alfalfa is apt to be destroyed or at least make a thin stand. However, in any case, I consider the early fall seeding of alfalfa preferable to seeding with wheat in the spring. **A. M. TENEYCK.**

Horticulture

Orchard Spraying.

SECTION II.

E. F. STEPHENS, CRETE, NEBR.

SPRAYING PUMPS AND METHODS.

The rapid spread of fungus diseases compels the apple-grower to do some spraying with sulfate of copper, to destroy fungus spores, notably the apple-scab. The corrosive effect of sulfate of copper, blue vitrol, is such that the cylinder of the pump should be brass. Iron or steel are very rapidly corroded and destroyed. In purchasing a pump it is well to select one that shall answer for spraying either with insecticides, such as Paris green, arsenate of lead and disparene or with blue vitrol, a fungicide.

The pump should have considerable power and be capable of developing a heavy pressure. If the orchard is small and a hand-pump used, it is better to have a pump that can develop a pressure of eighty pounds than of sixty pounds. Pressure one one-hundred pounds is very much better. There is however considerable doubt of developing one-hundred-pounds pressure without the use of a power sprayer.

Experiments conducted in California indicate that a pressure of one hundred and fifty to one hundred and seventy-five pounds is still more effective. The farmer who simply sprays a family orchard will doubtless purchase a pump, costing \$12 to \$15 and mount it on the head of a kerosene barrel. The orchardist who has ten to twenty-five acres should purchase some one of the power sprayers geared to and driven by the wagon wheel.

The writer has used one of this class for fifteen years. Since power of this kind is utilized by driving along the row without stopping, a sufficient

amount of misty spray can hardly be applied in the very brief time in which the wagon passes a tree. This defect may be partially overcome by driving and spraying twice around each row.

With an orchard larger than twenty-five acres it would be well to select a power sprayer driven by a gasoline engine. A gasoline engine of two and a half to three horse-power can readily develop one-hundred and fifty pounds pressure which can be utilized in making a finer mist of the spray and more surely forcing it into the calyx of the apple. There is also a saving of time, a matter of great importance since there are only four to six days time for the securing of the very best results in spraying. It is important that the orchard should be covered as rapidly as possible and thus utilize the very brief period before the calyx closes.

In the selection of the running gear the tire of the wheel should be at least four inches in width and six inches would be better.

Mr. R. A. Simpson of Vincennes, Indiana, bolted two three-inch rims, one on either side of a common farm wagon wheel. In this way he secured a set of rims nearly eight inches in width. Equipped with wheels of this character he was able to haul his gasoline engine and filled tank over any ground that the horses could walk over, a matter of very great importance since it sometimes happens that on flat lands in extremely wet weather the ground becomes so soft that it is practically impossible to haul a tank filled with spraying liquid through the orchard.

In the selection of the pump, it is imperative that it should be one which has an agitator, keeping the liquid constantly stirred up so the strength of the spray will be uniform. It is also well to use a pump having a revolving brush which will constantly keep the sediment and any stray twigs or leaves free from the base of the pump. Since the liquid must be forced through fine nozzles the greatest care must be taken to keep the liquid free from lint or sediment which might clog the nozzles and impair the quality of the work.

BORDEAUX MIXTURE.

The ordinary formula in use is four pounds of sulfate of copper, five pounds of lime to fifty gallons of water. In order to dissolve the sulfate of copper and slack the lime with the least trouble, the following suggestions may be useful.

Should the sulfate of copper be placed in the bottom of the tub, or barrel, it would not rapidly dissolve since the solution at the bottom becomes too strong to continue to dissolve. The best results are secured by suspending the sulfate of copper in a sack in the upper portion of a barrel of hot water.

The farmer who desires only a small amount for his few trees may dissolve four pounds of sulfate of copper in twenty-five gallons of water. He may put five pounds of fresh lump lime in twenty-five gallons of water. Lime slacked under water in this manner is less liable to burn than when slacked in large quantities in open air.

In uniting the solution of copper sulfate and the lime water it is not well to pour one into the other but to pour a stream from each into a third barrel large enough to contain the united fifty gallons. The resulting solution is more effective if the two separate solutions are poured in equal streams in unison into the third barrel than if one is poured into the other. Those who have large orchards use elevated storage tanks, from which, water is drawn off into smaller tanks; to one of which the lime solution is added and sulfate of copper solution to the other. Streams from these are run together into a third tank from which the spray tank is filled.

If fifty pounds of sulfate of copper are dissolved in twenty-five gallons of water, each gallon of this stock solution will contain two pounds of sulfate of copper. Doubtless for many farmers it will be more convenient to measure out two gallons of this liquid and add it to twenty-three gallons of water and

CLOVER Largest grower of Clover, Timothy, Grass, Oats, Barley, Corn, Speltz, Rape and Farm Seeds of all kinds in America. **FREE** Our mammoth 148-page Catalog is mailed free to all intending buyers; or send **8c IN STAMPS** and receive sample of perfect balance ration grass seed, together with Fodder Plants, Clovers, etc., etc., and big catalog free. **JOHN A. SALZER SEED CO. LA CROSSE, WIS.**

ROSES 108 Varieties Including all the choicest European and American sorts. It will pay every lover of roses to get our American Beauty Collection, consists of the following: American Beauty, the old favorite, most beautiful and expensive rose. White American Beauty, pure ivory white, grows vigorously, blooms constantly. Black Beauty, a fine flower. Striped Beauty, bluish, crimson striped. Moss Beauty, exquisite pink flower, elegantly mossed. Pink Beauty, splendid bloomer, very hardy. One strong plant of each, 75c. One large 2-year old dormant plant of each, \$1.85, charges prepaid. **Introduction Collection:** 10 choice Roses, other varieties, only 50c postpaid. Largest rose growers in the West, 31 greenhouses, 20 acres flowers. Illustrated catalogue Free. Mention this paper. **IOWA SEED CO., DES MOINES, IOWA.**

SEEDS Mo. Valley Seed Co. Established 1870. The kind that produce results. Reliable northern grown, thoroughly tested and true to name. Field, Flower and Garden. Our specialties, Alfalfa, Clover and Timothy. Write for prices. Special Chick feed, Incubators, Poultry Supplies, all kinds Write for big catalogue free. **HORTICULTURAL SUPPLIES**—We are the largest Horticultural Supply House in the west. Target Brand Arsenate of Lead and Disparene, a guaranteed exterminator of all leaf eating insects. Target Brand Quick Bordeaux, Target Brand Scale Destroyer, Meyers Celebrated Spray Pumps, Empire King Spray Pumps, Chemicals, all kinds for spraying. Write for free catalogue, telling how and when to spray. **110 S. 4th St., St. Joseph, Missouri**

Red Tag Trees The Red Tag is the identification mark on all genuine **PHOENIX TREES and PLANTS** The sturdiest and best nursery stock experience and good soil can produce. Look for the Red Tag on all trees you buy. Send to-day for free catalogue. **PHOENIX NURSERY CO., 620 PARK STREET, BLOOMINGTON, ILL.**

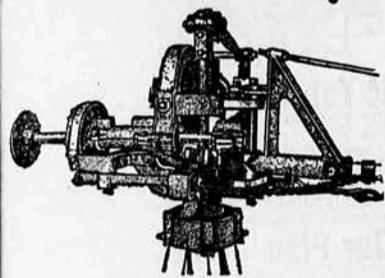
GOOD SEEDS CHEAP BEST EVER GROWN A wonderful big catalog FREE Full of engravings of every variety, with prices lower than other dealers'. Oldest reliable seed grower in America. No old seed. All fresh. They will grow or will refund money. Big Lot Extra Packages Free with Every Order. Send yours and your neighbor's address. **R. H. SHUMWAY, Rockford, Illinois**

SEED CORN—C. E. HILDRETH, Aitken, Minn., breeder and grower of Hildreth Yellow Seed Corn. First prize at fairs and corn shows. First prize seed yield, 103 bushels, 1906. First prize, acre yield, 103 bushels, 1906.

Strawberry Plants that Pay to Plant are the Kind We Grow Our acreage this year is very large and we have a large quantity of first class plants. Our fields were all under mulch early and we are sure we can furnish our customers with the very best plants possible. We also grow large quantities of other small fruit plants. Our new catalog is different from any catalog you have ever read. It contains valuable information to the fruit grower. It will pay every fruit grower to have a copy. It is free. **Address F. W. DIXON, Holton, Kans.**

THE BRAINS of the Windmill

That's what the windmill head is to the windmill—"the brains;" and that's why we make it so good. It is compact, strong, down close to the work, and has but few wearing parts. See that outer bearing for wheel shaft, you know that's good. Note the Center lift crank with Double bearings. It's good, too.



The Bearings are interchangeable throughout. They can be easily and quickly changed, too

Large Oil Boxes,
Stroke Easy to Change.

and the best of all are the
Roller Rim Gears.

They stop the noise and lesson the wear. Are the best of everything in windmills. And all other parts are as good as the Head.

See nearest agent or write
Dempster Mill Mfg. Co

Factory: Beatrice, Neb.
Branch Houses:
Kansas City, Mo.
Omaha, Neb.
Sioux Falls, S. D.
Mention Dept. B when you write.

SEEDS

All the best novelties and standard sorts of Garden and Farm seeds. Send for handsome illustrated catalogue of Seeds, Plants, Poultry Supplies, Nursery Stock, etc., and special Bargain List of Vegetable and Flower seeds at 2 cents per packet and upwards. Mailed FREE to you, if you mention this paper.
IOWA SEED CO., Des Moines, Iowa.

FREE \$1 PREMIUM ONLY TO BUYERS OF STERLING SEED
FREE 132-Page Catalog
Write today for most interesting and reliable Flower, Vegetable and Field Seed Catalog published. Explains how, on page 2, buyers get 11 varieties of Flower and Vegetable Seeds, worth \$1—FREE.
NORTHROP, KING & CO.
433 Hennepin Ave., Minneapolis, Minn.

4 HARDY EVERGREENS
To prove they are healthy and vigorous we'll send Four Trees 3 yrs. old free to property owners. Mailing expense 50c. A postal will bring them and our catalog with 6 colored plates. Write today.
THE GARDNER NURSERY CO.,
Box 740, Osage, Iowa.



MAMMOTH RICE POP CORN
ears often 7 to 9 inches long with 22 rows. One ear has produced 5 bushels. The result of continued and patient breeding for over 30 years by one man. Mammoth Rice Pop Corn excels all others in quality and yield. Will bring the highest price everywhere. Seed scarce. Write promptly if you want some. Sample ear on cob for 10 cents. Money back if not pleased. Descriptive circular free.
BIG TENDER ASPARAGUS
Leaflet telling how to grow great crops of big tender Asparagus will be sent free to any address. Write for one today.
100,000 ASPARAGUS PLANTS,
the finest you ever saw, at bottom prices. Write for prices.
HENRY JEFFRIES, Ottawa, Kans.

Seeds OF ALL KINDS
Tested Bromus-Inermis
SEED CORN—Everything you plant. Samples and Quotations on application.
GEORGE T. FIELDING & SONS,
Manhattan, Kans.

294 Hidden Name, Friendship, Silk Fringe Envelope and all other kinds of CARDS and Premium Articles. Sample Album of Frost Cards and Biggest Premium List, all for a cent stamp. **ORLO GARD COMPANY, CADIZ, OHIO.**

then combine a suitable proportion of the stock solution of lime water for each fifty gallons desired.

NEW PROCESS LIME.

Acting under the suggestion of Prof. M. V. Slingerland of Cornell University, we have experimented two seasons with what is called new process lime. Since about one third or twenty-eight to thirty-eight per cent of these new process limes are magnesia, we are advised to use a larger quantity of the new process lime than we would use of the best freshly slacked stone lime. The very best results are secured with perfectly fresh stone lime properly slacked. Since the average orchardist cannot always procure unslacked lime of the very best quality, we are inclined to the belief that it will be better to purchase new process lime to four pounds of sulfate of copper.

New process lime is ground in Fostoria, Ohio, and doubtless at other points and should be ordered some little time before needed, as by local freight it would be some time on the way. It is also extremely important that this new process lime should be freshly ground, because it air-slakes and loses its strength within a year.

The buyer should be careful not to accept air-slacked, stone lime for new process lime. It is better to have new process lime in barrels since good barrels more completely exclude the air and better maintain the strength of the lime. Because sacks are cheaper than barrels, some manufacturers of new process lime are putting it on the market in sacks.

We would rather pay double price for freshly ground, new process lime than to use stone lime in the hands of the inexperienced laborer who might not always slack lime with such skill and care as to prevent its burning and losing some portion of its strength.

It is of the utmost importance that sulfate of copper should be neutralized by a sufficient quantity of lime. To ascertain whether this has been done, Professor Slingerland advises the use of the Ferro-cyanide test. Purchase from the druggist 5 cents worth of these poison crystals. These dissolved in a pint of water will last a season for testing. If the test liquid turns a dark-brown color as soon as a few drops touch the bordeaux, more lime must be added until the liquid does not change color. Litmus paper can be used for determining when the sulfate is neutralized. If the five pounds of lime considerably more than neutralizes the four pounds of copper sulfate, and the mixture does not settle very fast, it would be safe to purchase such lime in quantities for spraying. Another simple test for these prepared limes is to take a small amount of the lime, about one-half teaspoonful, drop it into a little hot vinegar, and if it effervesces or "sizzles," it contains carbonate of lime and will probably make good Bordeaux mixture. I would not buy any new process lime without first making one of these simple tests, because as shown above, they will air-slake in time.

"The prepared limes cost a little more than stone lime per barrel, but when you buy a barrel, all of the material can be used rather than one-half or two-thirds of it in the center of the barrel, as is sometimes the case with stone lime. Then it is much easier to merely dump the lime into water and stir it up without having to wait for it and watch it while slacking. Do not dump the dry lime into the copper sulfate solution, even when the latter is much diluted.

COST OF MATERIAL.

New process lime in former years has been costing us in Fostoria, Ohio, about \$2.00 per barrel. Prior to this season sulfate of copper has cost us by the barrel, in Omaha and Kansas City 6 1/2 cents to 7 1/2 cents. This season we are paying 8 1/2 cents by the barrel of 460 pounds in Omaha. It is quoted at 8 1/4 cents in Kansas City. When purchased in smaller quantities, in broken lots, sulfate of copper would doubtless cost from 2 to 4 cents a pound more.

Some brands of arsenate of lead may be procured in New York at \$9.00 per

Williams' Shaving Soap

HARD-WORKING farmers usually have strong, wiry beards, and need the best shaving soap to soften them. Ordinary soaps only smart, and irritate the face and sometimes poison it. Williams' Shaving Soap softens the beard in a wonderful way, and leaves the face soft and refreshed after shaving.

"The only kind that won't smart or dry on the face."

Send 2c. stamp for a TRIAL CAKE of Williams' Shaving Soap, or 4c. for a Williams' Shaving Stick, trial size, enough for 50 shaves. Address
THE J. B. WILLIAMS COMPANY
Department A, GLASTONBURY, CONN.

ALFALFA SEED Kansas grown. Highest award at St. Louis for best alfalfa seed in world. Crop of 1906. Also Cane and Millet. Macaroni Wheat and other Field Seeds in carload lots or less. Write for prices. **McBETH & KINISON,** Garden City, Kans.

Kentucky Blue-grass Seed
For a beautiful as well as a most profitable pasture sow Blue-grass. The genuine Kentucky seed is what you want, and from September until June is the proper time to sow. For pure seed of our own raising, and full particulars write **MT. AIRY SEED FARM, PARIS, KENTUCKY.**

SEEDS Field, Garden, Flower. Fresh and reliable. Do not disappoint. Have you tried them? If not, try them now. My catalog tells about them. **WRITE FOR IT,** and secure SEEDS that BRING SUCCESS. High Grade Clover, Alfalfa, Timothy, Millet, Cane, Seed Oats, Seed Corn. Tell me your wants. I can fill them and please you. **T. LEE ADAMS, 417 Walnut St., Kansas City, Mo.**

NATIVE GROWN ALFALFA Superior to the Imported
No foul trash in it. It's safer to buy our alfalfa and be sure not to poison your land with a score of kinds of foul weeds that will take you years to get rid of—perhaps never. It will save you worry, money and time. We send you sample to test in your sprouting box. Write us your wants in grass seed; vegetable, field and flower seeds; gardening tools, etc. Write for our free catalog. We give a free sample of a new, large-growing tomato to every one who asks for it. Write today. **Missouri Seed Co., 1434 St. Louis Ave., Kansas City, Mo.**

J.G. PEPPARD BUYS AND SELLS
MILLET, CANE, KAFFIR, POPCORN, SEED CORN, ALFALFA, TIMOTHY, CLOVER AND ALL KINDS OF
FIELD AND GRASS SEEDS
1101 to 1117 West 8th, Near Santa Fe St., KANSAS CITY, MO

SEED CORN 146 BU. ACRE
DIAMOND JOE'S BIG WHITE—A Strictly new variety. None like it. It is the Earliest and Best Big White Corn in the World—Because it was bred for most Big Bushels, not fancy show points; because grown from thoroughbred inherited stock; every stalk bears one or more good ears; Because scientifically handled, thoroughly dried and properly cured and had the most rigid examination. Big Seed Catalog FREE. It tells about all best farm, grass, Garden and flower seed grown. Send for it today. Address **RATEKINS SEED HOUSE, Shenandoah, Iowa.**

Western Seeds for Western Planters
The Barteldes Seed Company
Lawrence, Kans. Oklahoma City, Okla. Denver, Colo.
Complete Stocks of GARDEN, FIELD and GRASS SEEDS, Clipper Mills, Garden Implements, Fertilizers, etc. Write now for Free 1907 Garden Seed Catalogue.

TESTED SEEDS

Are the kind that grow—that can be depended upon to produce bountifully

OUR SEEDS ARE TESTED

WRITE FOR CATALOG TODAY—IT'S FREE

Our 1907 Catalogue is a most complete Seed, Poultry and Bee Supply Book. **250 Illustrations**

And that is why they give such perfect satisfaction. Our big catalogue tells all about them. Its Free. You'll find it different from others: It contains no "windy" stories, no misrepresentations. Its a good, honest book and you'll like it; you'll like our way of doing business and you'll like our seed. If you want thoroughly tested seed—seed that will grow, send for our Catalogue. Do it now.

ZIMMERMAN SEED CO., 625 Quincy, TOPEKA, KANSAS.

SAM JONES' LIFE AND SAYINGS
BY HIS WIFE
AGENTS WANTED Agents are coinng money. Send 50c for Canvassing Outfit and Contract for territory. Big Book, 7x10, Price \$2.50 Circulars Free. **A. N. Jenkins & Scott, ATLANTA GA.**



Only the Rich Can Afford Poor Paint

If one is rich enough to repaint his buildings every year for the pleasure of having a change of color scheme, the quality of the paint used may cut little figure. But if it is desirable to cut the painting bills down to the least amount possible per year, it is of the utmost importance that the paint be made of the purest of White Lead and the best of Linseed Oil. There are imitations—hosts of them—in the form of alleged White Lead, and there are substitutes—another long list—in the form of ready-prepared paints.

We guarantee our White Lead to be absolutely pure, and the Dutch Boy on the side of every keg is your safeguard. Look for him.

SEND FOR BOOK

"A Talk on Paint," gives valuable information on the paint subject. Sent free upon request.

NATIONAL LEAD COMPANY

in whichever of the following cities is nearest you:

- Boston, Buffalo, Cleveland, Chicago, St. Louis, Philadelphia, Pittsburg, (National Lead & Oil Co.)



Wire Fence 29c
48-in. stock fence per rod only. Best high carbon coiled steel spring wire. Catalog of fences, tools and supplies FREE. Buy direct at wholesale. Write today. MASON FENCE CO. Box 23 Leasburg, O.

FENCE STRONGEST MADE. Built strong chicken-tight. Sold to the Farmer at Wholesale Prices. Fully warranted. Catalog free. COILED SPRING FENCE CO., Box 266 Winchester, Indiana.

BROWN PAYS THE FREIGHT
HEAVIEST FENCE MADE
All No. 9 Steel Wire. Well galvanized. Weighs 14 more than most fences. 15 to 25¢ per rod delivered. We send free sample for inspection and test. Write for fence book of 125 styles. The Brown Fence & Wire Co., Cleveland, Ohio.

Stock & Poultry FENCE
Many styles and heights; Diamond or Square Mesh; prices low. Sold direct on 30 days free trial, freight prepaid. Catalogue free. KITSelman Bros. Box 61, Muncie, Ind.

Tubular Posts
Last a Lifetime
Manufactured by
THE M. K. FENCE COMPANY
St. Joseph, Mo.
Write For Free Circular

\$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.
GURRIE WIND MILL CO.,
Topeka, Kansas.

hundred-pounds in four-hundred-pound barrels. Other brands, claimed to be better, cost from \$12 to \$15 per hundred pounds. In smaller lots than barrels, prices advance.

We are in receipt of a letter from Dr. C. H. Fernald, professor of Zoology in the Massachusetts Agricultural College at Amherst, Mass., in which he states that it may be better to purchase the higher priced brands of disparene and arsenate of lead than the cheaper, because of the superior strength and effectiveness of some of the more expensive brands. He also suggests the possibility that some of the cheaper brands may be adulterated with glucose.

It is our habit therefore in using cheaper brands of arsenate of lead to increase the quantity by twenty to thirty per cent.

ESSENTIALS OF SUCCESS.

First, spraying materials should be properly compounded. Second, the spray should be applied at the right time. Third, the solution should be applied with such power as to create a fine, misty spray. L. J. B.

Does the Practical Man Like the Silo?

EDITOR KANSAS FARMER:—In the paper of February 21, Professor Erf gives a very practical discussion on the silo question. At the Gardner Farmers' Institute, the waste of corn fodder and silo as the best way to care for it was discussed.

A man who had traveled over Eastern Kansas raised the question; If the silo is such a good thing why do I see so many abandoned ones? What we farmers need is to have that question answered by those who have stopped using them. Cannot we have a dozen answers from those people? The conservative farmer wants to know what snag he may run into and how to avoid it. Some one said that they would rather let the fodder stay on the ground and raise sorghum for roughness. Is such kind of farming all right? E. C. COWLES.

Douglas County.

Miscellany

Dollar Wheat.

EDITOR KANSAS FARMER:—I see in some of the papers that there are organizers going around over the State organizing what they call "local unions of the American Society of Equity." As an inducement to the farmers to join this organization, they tell them that, by so doing, they (the farmers) will be able to get a dollar for their 1907 wheat crop.

Now, while this theory about the farmers getting a dollar for wheat and fifty cents for corn sounds very nice to the wheat- and corn-producers, we must concede that the present outlook does not point to those figures on the commercial dial plate, and the probability is that there will be some badly disappointed farmers when they want to dispose of their 1907 wheat crop.

The possibility of creating and maintaining a minimum price of one dollar a bushel for wheat is a question of no trivial importance practically speaking, and it might be well for farmers to consider the possibility of putting such a theory into practical use, and what they have to do to bring about such a condition in the wheat market of Kansas or any other State. To establish a fixed price for farm products would require a concurrent action of all those engaged in producing that article. Here the question arises, can this be done?

An organization of farmers as great and as far reaching as this would have to be would be wonderful, and its power and influence would be so great that investigation and legislation would have to take a hand in the game.

There is no denying the fact that organization has become a fixed and permanent thing for all classes of people, and there is no reason why the farmers of this country should not organize and be largely benefited financially and socially by so doing. For

these and other good reasons I am an advocate for the organization of farmers. But my faith in this theory about fixing and maintaining a certain price for any farm product is not sufficient to convince me that it will ever succeed in accomplishing what its advocates claim for it. Where, it seems to me, these people will fail will be in getting enough farmers into this organization that will be able to carry out the plans on which it is building its hopes for success.

I have three reasons for the weakness of my faith in this movement. The first is: What I have experienced and witnessed in the past twenty-five years in some five or six organizations of this type has taught me that the majority of the farmers who join these organizations expect too much, and soon become disappointed, get discouraged, and leave the organization.

The second is: In attempting to accomplish so great a movement as this, it seems we farmers are very apt to lose sight of the smaller things which are about as important and perhaps equally as beneficial in the long run as the larger things.

The third is: Cold, hard facts teach us that the law of supply and demand is inexorable in all business, and it is every one's privilege to sell as high as they can and buy as cheaply as they can, and consequently this movement is not likely to accomplish what is claimed for it.

In expressing my views about this dollar-wheat movement, it is not my intention to convey the idea that I am either opposed to farmers' organizations or to the American Society of Equity. If this organization can do what people claim for it, I say "Amen" to it. A FARMER.

Cowley County.

Chicago Corn Exposition Prizes.

The great Corn Exposition, to be held in Chicago October 5 to 19, 1907, will offer very liberal cash and other prizes for the various sections, States, and localities. A comprehensive classification is being prepared, and when ready it will be mailed, upon application to Secretary Curt M. Treat, 1304 Great Northern Building, Chicago.

While it is impossible at this date to give the exact amount of the prizes and the complete classification, it is very desirable that a tentative outline be presented so that farmers, knowing what to expect, may make their plans accordingly.

OPEN TO THE WORLD.

In this section there will be two divisions, one for white dent and one for yellow dent. In each division at least six premiums will be awarded, the sum total in both divisions amounting to \$5,000 or over; that is to say, \$2,500 for white and \$2,500 for yellow. The first prize will be a very liberal one, and the incentive to compete in this section will be great.

PRIZES FOR PURE-BRED CORN.

In this section liberal prizes will be offered for the best ten-ear exhibits of the leading pure-bred varieties in the United States. Among these are Boone County White, Reid's Yellow Dent, Iowa Silver Mine, Improved Leaming, Pride of Illinois, Champion White Pearl, and many others to be named later. In each class six or more premiums will be awarded, amounting to at least \$150, and probably considerably more.

PRIZES FOR THE WOMEN.

In this section ten-ear exhibits will be required, and there will be ten premiums in each class. The women may exhibit in two classes, yellow corn, any variety, and white, any variety. About \$1,000 will be expended in both classes.

PRIZES FOR FLINT CORN.

An entirely new departure will be liberal prizes for the best ten ears of yellow flint, best ten ears of white and best ten ears of red flint. Heretofore shows in the corn-belt have never offered prizes for flint, and of course from the nature of the case flint can not compete with dent. It is probable that \$300 to \$500 will be awarded for prizes in flint corn. These prizes are designed to encourage the improvement and growth of corn in

\$4.00 to \$8.00 Per Acre

That's What a Good Spreader Will Do If Used as It Should Be

Write Us And Let Us Tell You How.



If You Have 125 loads of manure to spread we will tell you how you can increase the value of your crop this year more than enough to pay for a spreader. We issue a 64-page book which explains the whole situation.

A Manure Spreader will bring you bigger and quicker returns than any other three-in-plements you have on your farm.

Our Plan is not a theory, it is an actual fact backed up by 18 years' actual experience.

The Book will be sent to you free. It is worth \$100.00 but won't cost you a cent. If it does not do you any good, it won't do you any harm. It's brim-full of valuable information.

A Manure Spreader Must Be Made Extra Strong.

- Don't buy a light spreader.
- Don't buy a spreader that has a pine pole and pine frame.
- Don't buy an experiment, a machine that has been on the market only a few years.
- Don't let any manufacturer experiment at your expense.
- Don't buy a spreader that has a narrow front axle. If you do you can't top-dress corn successfully.
- Don't buy a spreader with the front axle set ahead of the front end of the body because practically all the load will be carried on the rear axle, making heavy draft.

THE GREAT WESTERN

Is Made For the Man Who Wants the Best.

Our 70-Bushel Spreader

is a great big, heavy machine. The main frame is all oak, oak pole and hickory double-trees. Sizes—35, 50, 70 and 100 bushels. It has a great big, strong 18-inch malleable iron fifth wheel, double oak bolster, wide front axle, the wheels track an endless apron that is always ready to load; no reverse gears, trips, springs or contraptions to get out of order. Spreads all kinds of manure. It has a galvanized steel hood and end gate. Keeps the manure away from the beater when loading. Prevents choking when starting. Acts as wind shield when spreading. It has light draft, because the load is nearly equally balanced on the front and rear axles; brings the team close to the load. Front and rear wheels track. Beater shaft runs in ball and socket bearings. It is so simple that a boy can handle it. Ask your dealer about the Great Western Spreader. Don't let him sell you a substitute that he says is "just as good."

Write just these words on a postal card or in a letter—Do it now—Send me your book, Practical Experience with Barnyard Manure, and catalog No. 5070.

Write us to any address given below:

SMITH MANUFACTURING CO.,
158 Harrison St., CHICAGO, ILL.
1201 Leavenworth Street, Omaha, Neb.
1808 West 11th St., Kansas City, Mo.
Fourth Ave., and 3rd St., Minneapolis, Minn.

BEFORE YOU BUY A MANURE SPREADER

SEE that its frame and sills are made of oak; that it has a ball and socket joint on front axle to prevent racking and twisting and steel braces and steel truss rods to guard against warping and sagging. See that the apron does not run backward and forward on hilly ground but insist on a positive and continuous apron drive. "A boy can run it"



See that it is practically automatic and so simple that any boy who can drive a team can run it as well as any man and control its every operation without leaving the seat. The

Appleton Manure Spreader

has all these improved features and many others equally important. Write to-day for free catalogue and special prices and terms.

APPLETON MANUFACTURING CO.
19 Fargo Street, Batavia, Ill., U. S. A.

New England, New York, Northern Michigan, Northern Wisconsin, Minnesota, and the Dakotas, or any other locality where this kind of corn is grown.

A more complete classification will be presented later. There will be prizes for boys, prizes for the girls, prizes for the different localities, State prizes, and any number of special prizes.

The important thing now is to realize what a great undertaking the National Corn Exposition really is and what it means to the corn-growers. The big prizes are an incentive so far as direct rewards are concerned. By exhibiting and visiting this great show the corn-growers will gain a great deal of information concerning corn culture which will pay them for their effort. Let every farmer who grows corn plan to use an exceptionally desirable piece of land for planting his contest corn, fertilize it liberally, prepare it very carefully; use the greatest of care in selection of his seed, then plant at the right time and cultivate liberally and see that the crop matures as early as possible, so that it will be in the best possible condition for entry next fall.

NEW ERA FOR THE SODA CRACKER Nutritive Value Greatest of All Wheat Foods.

SO SAY UNITED STATES EXPERTS. Due to Wheat Tests and Improved Methods of Baking.

"The soda cracker has come into its own."

This is the declaration of C. E. Gould, secretary and manager of the Loose-Wiles Cracker & Candy Co., Kansas City, Mo., in a recent interview. Mr. Gould is an authority on the subject of soda crackers. He has been actively engaged in their manufacture for a great many years, and his company is to-day one of the largest concerns in the business, as well as the foremost exponent of the modern methods of manufacture and merchandising which have brought the hitherto humble soda cracker into the front rank of the world's food stuffs.

An interview on the subject of soda crackers did not at first appeal to the writer as holding many possibilities and it is feared that the first question was asked in a skeptical tone.

"What gives soda crackers their food value?"

"Your question embodies more than can be answered in a brief sentence," replied Mr. Gould. "Soda crackers properly made have always had a high food value, but it remained for the food experts in the United States Department of Agriculture to discover that of the many forms of wheat foods some retain so great a percentage of the nutriment of wheat as the soda cracker. In the case of our own products, Takoma Biscuit, rigid tests have shown that they contain all the nutriment of the wheat flour from which they are made."

"Of course, Mr. Gould, every one knows in a general way that wheat is very nutritious, but it would be interesting to know how it compares in nutriment with other staple foods."

"The nutrition of the wheat berry comes from its nitrogen, which, though it is a colorless, odorless, tasteless gas, is one of the most important constituents of the human tissue. Without going further into an analysis of wheat or wheat flour, I will say that wheat contains a greater percentage of nitrogen than is found in any other form of food. You must remember, however, that with the advance made in the improvement of milling machinery, a great deal of effort has been expended toward the so-called refining process. There has been a craze for white flour. As a matter of fact, this, happily, is but a fad. The white flour is obtained by bolting over and over again until the coarser particles of the inner skin have been eliminated and nothing but the white inner portion remains. The food value of the extremely white flour is thus less than some of the coarser grades, as the nitrogen, the nutriment, the good of the wheat is discarded in the bolting process."

"The food value of your Takoma Biscuit then must depend largely upon the wheat from which it is made."

"Indeed, it does. It is in connection with that very fact that we base our claim that Takoma Biscuit contain more nourishment than any other soda cracker made. Takoma Biscuit are made from soft winter wheat, which is extraordinarily rich in nitrogen. The process of baking employed in our bakeries is one long fight toward retaining in the biscuit the nutriment of the wheat. Now, you can readily see that our expensive machinery and skilled labor would be of little value if we were not absolutely sure that this precious element was in the wheat flour in the first place. All wheat flour contains by our experts which does not contain a certain percentage of nitrogen is discarded. We are sure of our right, and we believe our product to be the most perfect soda cracker— the sense which the Government experts had in mind in their report— is possible for human intelligence and ingenuity to make."

"When you say, Mr. Gould, that the soda cracker has come into its own, and possibilities for it have you in mind?"

"The possibilities of the use of soda crackers are almost limitless. We have never used recipes, hints to housewives, or similar matter in our advertising, yet many pleased purchas-

How many times during a year would you be willing to pay 5 cents an hour for a reliable power?

A good many times, no doubt. For shredding fodder, grinding feed, sawing wood, husking or shelling corn, churning, pumping water, separating cream, grinding tools, etc. A good many times, indeed, and when you want it you want it without delay.

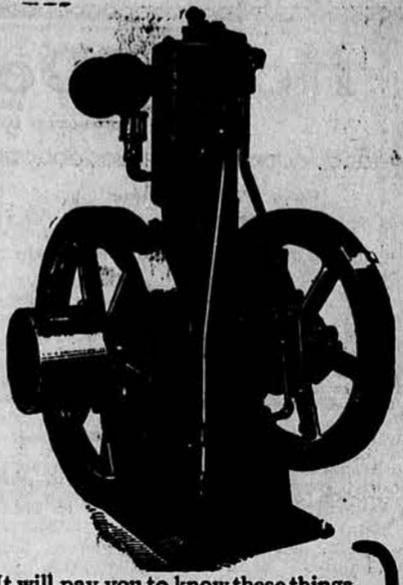
An I. H. C. gasoline engine will furnish such power—a 3-horse engine, for instance, will furnish power equal to that of three horses at a cost of five cents an hour, and it will be always ready when you want it, and ready to work as long and as hard as you wish. You don't have to start a fire—not even strike a match—to start an I. H. C. gasoline engine. All you have to do is close a little

switch, open the fuel valve, give the flywheel a turn or two by hand, and off it goes, working—ready to help in a hundred ways.

Stop and think how many times you could have used such convenient power last week, for instance.

There should be a gasoline engine on every farm. Whether it shall be an I. H. C. or some other engine on your farm is for you to decide, but it will pay you well to learn of the simple construction of I. H. C. gasoline engines before you buy. It will pay you to find out how easily they are operated, how little trouble they give, how economical in the use of fuel, how much power they will furnish, how strong and durable they are.

INTERNATIONAL HARVESTER COMPANY OF AMERICA, CHICAGO, U. S. A. (INCORPORATED.)



It will pay you to know these things, and the way to find them out is to call on our local agent or write for catalog. These engines are made in the following styles and sizes:—Horizontal (stationary or portable), 4, 6, 8, 10, 12, 15 and 20 horse power. Vertical, 2 and 3 horse power.

The Kansas City Weekly Star

The most comprehensive farm paper—All the news intelligently told—Farm questions answered by a practical farmer and experimenter—Exactly what you want in market reports.

One Year 25 cents.

Address THE WEEKLY STAR, Kansas City, Mo.

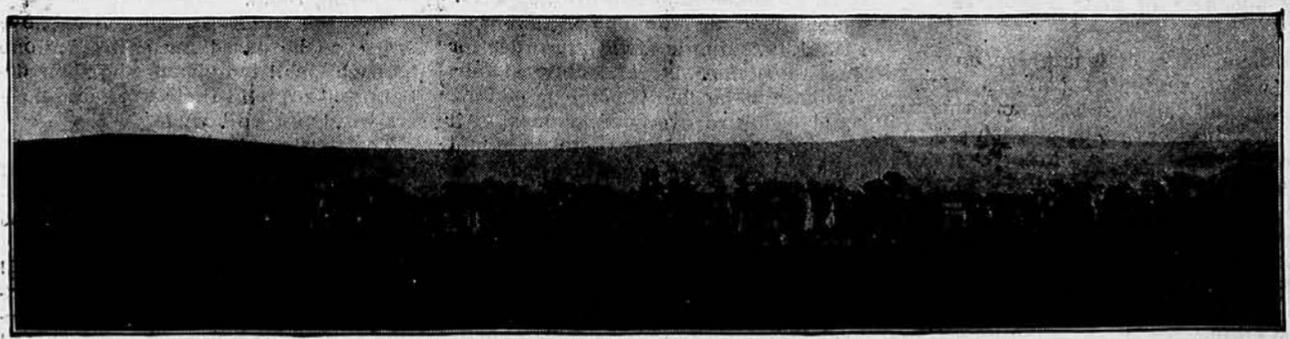
"Just another question or two, Mr. Gould—is your business greatly affected by the so-called evil of substitution?"

"No, I am happy to say that it is not. While we use the phrase—accept no substitutes—or some similar admonition in our advertising, we find that our distinctive package, red, with white letters, sealed with blue and white seals on the ends, is readily distinguished by customers when they make their first purchase. I would say that the quality of the goods takes care of substitutes, after this, if this did not seem to imply that it was the only safeguard against the dishonesty of the dealer. However, I wish to state in the most emphatic terms that in my own business experience I have found the dealers with whom we do business are little given to substitution in so far as our goods are concerned. I believe that half of the so-called substitution evil comes from the dishonesty rather than the dishonesty of the grocer. He has personal friendly relations with most of his customers, and in many instances offers a substitute because he knows it to be better than the article asked for. Dealers who sell our goods know that they give entire satisfaction. They know that the statements in our advertising appeal to intelligent people who know what they want. No, I can not say that we are affected by substitution. I do not know that I can say anything more of interest, but if I have given you and your readers any enlightenment on the subject of soda crackers, and speaking, of course, from my knowledge of our own product, Takoma Biscuit, it is because from the testing and selection of our wheat flour through our modern method of baking and delivery to the consumer in perfect condition, our aim is to produce the most perfect soda cracker in the world."

WITTE GAS ENGINES. The highest type of self-contained engine on any commercial, gas or liquid fuel. Now sold on 30 Days' Free Trial. Very sensitive governor; perfect electric lighter; other exclusive essentials. Result of 30 years' experience. Write for Catalogue No. 4. WITTE 1808 WOLFE CO., W. 5th Street, Kansas City, Mo.

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. 4. Send for it now. It is FREE. Austin Manufacturing Co., Chicago

ASPINWALL POTATO MACHINERY. GREATEST LABOR SAVERS. World's Largest Makers of Potato Machinery. CUTTERS, PLANTERS, SPRAYERS, DIGGERS, SORTERS. WRITE FOR FREE BOOKLET "POTATO CULTURE". ASPINWALL MFG. CO. 248 Babie St., Jackson Mich.



ELECTRIC HANDY WAGON ON AN AFRICAN DESERT

The novel scene shown in the photograph we are reproducing will have interest for our readers. It represents in part a great caravan crossing the Nubian Desert from the valley of the Nile to the Western Oasis in Upper Egypt. It was the first wagon train that ever crossed this desert, and was the forerunner in opening up to civilization a vast territory not yet on the maps of the world.

The caravan was in charge of Mr. James S. Grey, formerly of Lima, Ohio, who represents a large English corporation in making drillings in Egypt. The picture was taken early in 1906. Of course only camels could be used for drawing the wagons in that climate. Mr. Grey had made a former attempt to cross the desert, starting with ordinary wagons and carts, manufactured

of wood, but they failed to stand the evaporating power of the desert sun and all gave out.

This illustrates very forcibly the sterling character of the Electric Handy Wagon. It should serve as a useful hint to wagon buyers at home. These wagons are not specially made for desert work. They were the regular pattern wagon, secured from stock kept in Pittsburg, Pa., and fitted with Electric Steel Wheels. These wheels can be made to fit any wagon. They served admirably under the heavy loads in the trying journey over the hot, dry, trackless desert. There is no question about their excellence for use in any climate. But the great point is their convenience and labor saving in the farm work. With the low wheels with which

they are usually made, they are nicely adapted to all sorts of farm jobs. They are guaranteed to carry a load of 4,000 lbs. over any kind of road. In lasting qualities they are far ahead of the wooden wagon, which always has a train of such incidents following as tire setting, rattling spokes, loose fellos, breakdowns. In most every instance too, the draft is lighter than on the narrow, high, wooden wheeled wagons. Everything considered, it is certainly entitled to be called the wagon of economy.

For particulars in regard to the above expedition and detailed information in regard to the Electric Handy Wagon or Electric Metal Wheels, write direct to the ELECTRIC WHEEL CO., Box 64, Quincy, Illinois.

Home Departments

CONDUCTED BY RUTH COWGILL.

Corn Plantin' Time.

The fresh turned fields are grey and bare,
The sunbeams fall with mellowed light,
The violet's breath is in the air,
The dogwood gleams a mass of white—
Corn plantin' time.

The fish are swarming in the streams,
The buds are swelling in the trees,
And 'round the busy hive there gleams
The myriad flash of humming bees—
Corn plantin' time.

The quail is piping to its mate,
The lambs are bleating on the hill,
The oak that shades the pasture gate
Sends forth a plainting Whip-Poor-Will—
Corn plantin' time.

The doves are cooling in the grove,
The hens are cackling in the barn,
The angler in the shaded cove
Is hatching many a fishing yarn—
Corn plantin' time.

"Blue Darters" nest among the pines
And watch the gourdied martin pole,
While truant lads with rods and lines
Are hieing to the fishing hole—
Corn plantin' time.

The 'simmon tree is shadowing
The watch dog's drowsy indolence,
The old gourd-jug fresh from the spring
Sits in the shadow of the fence—
Corn plantin' time.

With sightless eyes and nerveless hands
And garments ragged with decay,
Midway the field the "scarecrow"
stands
To fright the thieving birds away—
Corn plantin' time.

Across the mellow, yielding soil,
Straight to the slender white-crowned stakes,
The plowman, guided in his toil,
With shining steel the furrow breaks—
Corn plantin' time.

The barefoot boy with measured pace
Drops in the row the glistening corn,
And listens off with anxious face
To hear the welcome dinner horn—
Corn plantin' time.

Ah, well! the frosts will come again,
But in the cycle of the year
The early and the latter rain
Will bring again the ripened ear—
Corn gatherin' time.

—W. A. Clark, in Southern Cultivator.

"Man's Helpmate."

In the beginning woman was created for man's helpmate, but man took undue advantage of his opportunity and made her his slave; and it has been Christianity and civilization that has put her in her rightful place beside her husband—an equal and a helpmate. To be the helpmate of a true, full-grown, real man is an honor and something to be proud of. She is a helpmate to-day in a broader sense than at first. She has grown and developed more rapidly than man in many ways. She is not merely a helpmate in the sense of a burden-bearer, but she takes her place as an equal. She is a thinking being—not a mere machine. She thinks for herself and is capable of advising him and influencing him in all his ways and doings—in his pursuits for a livelihood, and often his success in life and business is due to her direction and counsel. Robert Louis Stevenson, Robert Burdett, and many more men who have achieved success in life might be mentioned as men who have attributed their success to the wisdom and goodness of their helpmates.

Woman is a helpmate for man in the truest sense, by being a homemaker, and she who has found this to be her lifework should count it a blessing, and place it above everything else in life. She should allow nothing whatever to come between it and herself—personal ambition, social aspiration, or selfish pleasure of any kind, or even things that in themselves are good and praiseworthy. Everything should be subordinate to, and in harmony with this, her lifework, and she who fully understands its true significance, and realizes its great importance will devote all her energies toward this one thing and make it paramount to every other thing. There are many things of a laudable nature, worthy of the efforts of good women, but unless it in some way makes her better fitted for her home life, or if it detracts from the joy and comfort of the family, it should be left for those who from

choice or by compulsion have no home responsibilities and duties.

God made woman because it "was not good for man to be alone," therefore she was created for man's companion, but even in this civilized Nation there are some who are mere beasts of burden, who drag themselves through day after day of weary toil, knowing no noon hour, no Saturday half-holiday, and often no holiday at all—never reading anything, nor thinking of anything but their work. It is impossible for such a one to be a companion to her husband, or make home the happy place it ought to be. A home is more than a house to eat and sleep in, and it rests with the wife's ability—her personality, her physical and mental condition—to make it a home. It is her religious duty to arrange her household affairs so as to have some time each day for a rest of body, to read some, and be a companion for the family. The husband may do much by encouraging the wife to take needed rest and recreation. When he sits down to take his after-dinner rest, it would make her feel better, at least, to invite her to lay aside her work a little bit and have a visit with him. He can help her by providing home conveniences and labor-saving devices. Husbands are sometimes thoughtless and careless about the wife in allowing her to work too hard, and sometimes adding to her already too strenuous life. The New Testament admonishes the husband to "love his wife as his own soul." If he does this, he will be as careful of her health and happiness as of his own.

The Telephone.

The telephone hangs the neighborhood's linen out to full view in a hurry. Why are people so anxious to expose themselves to criticism, and how long are neighbors going to endure quarreling and all sorts of rough talk over the line? A telephone ought to be a refiner, and instead it is often an exposé. We do not need to go visiting to know what manner of people surround us.

Women should be more careful of their language when talking over the 'phone and not abuse a good thing. It is not easy to cultivate a smooth, pleasant tone, which will reflect credit on the speaker. Keep the children from the telephone for it is no place for them unless they are carefully trained. I must say I believe that our neighbors vie with each other in being accommodating over the line, and it saves many trips.

Let us make war on the abusers of the system. Perhaps after the first use has worn off it will be easier to do.

In our neighborhood it is a common occurrence for six or eight persons to talk together just the same as in a room at home—and one evening a telephone meeting was held in that way. I think listening is always in order for the telephone is a public affair. Wouldn't it be fine if some preaching could be heard over our 'phones. All the preacher would have to do would be just to stop at a private house instead of going to the church. I believe Bible meeting could be held in this way. Who can report any social life helped by the telephone?

MYRON B.

Time for Making Sweet-Pea Trenches.

Some time during this month, according to the weather, you should make your sweet-pea trenches and get them planted, in case you do not get the trenches ready in the fall. I do not approve of fall planting of sweet peas, but the trenches should be made in the fall, if possible.

To make the trenches, as soon as the soil can be worked, excavate to a width of two feet the depth of the soil. If the subsoil be of limestone

"A Kalamazoo Direct to You"



ROYAL STEEL RANGE For All Kinds of Fuel.

Examine our complete line of stoves and ranges for all kinds of fuel. Note the high quality; compare our prices with others, and then decide to buy from actual manufacturers and save all middlemen's profits. Catalog shows 267 styles and sizes for all kinds of fuel. Write now. Sold on 30 Days Approval Test.

Kalamazoo Stove Co., Manufacturers, Kalamazoo, Mich.

All Kalamazoo Cook Stoves and Ranges are fitted with patent oven thermometer which makes baking and roasting easy. All stoves blacked, polished and ready for immediate use when you receive them.

Kalamazoo's are fuel savers.— They last a lifetime— Economical in all respects— They are low in price and high in quality.— They are easily operated and quickly set up and made ready for business.— Buy from the actual manufacturer.— Your money returned if everything is not exactly as represented.— You keep in your own pocket the dealers' and jobbers' profits when you buy a Kalamazoo.

WE PAY THE FREIGHT.

We want to prove to you that you cannot buy a better stove or range than the Kalamazoo, at any price.

We want to show you how and why you save from 20% to 40% in buying direct from our factory at factory prices. If you think \$5, or \$10, or \$40, worth saving

Send Postal for Catalogue No. 189

OAK STOVE HEATER, For All Kinds of Fuel.



Oven Thermometer

clay, and will not drain well, it would be well to excavate four inches in depth in addition, in which to put stones the size of railroad ballast for drainage. Fill the trench with the soil, which should be composed of one-third well-rotted manure, one-third good garden soil, and one-third sharp sand; and if the soil is not limestone loam, add a good sprinkling of air-slaked lime. This should be well composted together before being put in the trenches. Hollow the trenches out to a V-shape, to a depth of six inches and plant the seed in four rows, four inches apart and two inches deep in the row, pressing the soil down with the foot.

Now set the trellises for the sweet peas to climb upon. The best trellis is of twiggy saplings eight feet high, set as closely in the row as possible; but where this brush can not be had, wire netting set on poles, so as to center in the middle of the row, will do. It is not nearly so good, however, as the brush. The most satisfactory brush is the white birch, which can be had in the locations north of the latitude of New York.—Woman's Home Companion.

Plan for Summer Beauty.

It is quite time to be looking over flower-seed collections and planning what to plant to beautify the home place the coming summer, no matter how humble it may be—indeed, the more humble and plain it is the more need of embowering it with flowers. The sod house and the prairie shack should be planted all about with seed of climbing, running vines that will with a little care soon conceal even their rough outlines with a wealth of foliage and blossoms. Plant vines also about the outbuildings and every unsightly object, and in beds or rows, or corner especially prepared for them grow some of the more beautiful flowers to delight the eye, not only where they grow, but also to cut for indoor enjoyment in vases and bowls, on the dining table, and a stand or shelf in the living room.

Give the children each a little flower-bed to be cared for entirely alone by each small individual, and their delight and pride in their work and flowers will know no bounds.

The garden should be planned now also, and seeds of some varieties of both flowers and vegetables sown indoors to grow plants that may be ready to set out by the time the ground is warm enough, that will bloom and ripen early. Send for seed catalogues, look over the seed-box, decide what must be ordered of both and send for them as soon as possible, and thus be prepared to assist nature in her spring work when her creative forces shall have been freed from the bonds of winter. Plan to plant flowers everywhere.—Farmer's Wife.

The Baby's Comfort.

A writer in an exchange says most sensibly: "If babies could speak, how many piteous complaints we should hear of the annoyances given them by

TRY BUFFALO CALF SHOES FOR WEAR

Write a Postal for this Sample Tag today

The reason we say we are "The Western People" is so you'll know it. That means to us, and it will mean to you, that in our "Buffalo Calf" Shoes we "deliver the goods"—that when you buy a pair of your dealer that pair of "Buffalo Calf" Shoes WILL WEAR as we say they will.

That means that no leather, either for uppers or soles, that is tanned from Calf Skin or Steer Hides is more durable than you'll find in our "Buffalo Calf" Shoes. Positively and absolutely none is better, and most is not so good as ours, no matter how high leather prices may be.

First of all, our "Buffalo Calf" Shoe is designed for wear—for a work shoe. That is, for a man who has to give his shoes rough usage. You can choose from many styles to just fit your foot. Each style fits comfortably and takes less time than others to "feel good" on your feet.

You'll get the most worth in wear in "Buffalo Calf" Shoes. Write us a postal for a sample "Buffalo Calf" leather tag. If your dealer doesn't carry "Buffalo Calf" Shoes, write us.

Bentley & Olmsted Co.
"The Western People"
Des Moines Iowa

For Over 60 Years

Mrs. Winslow's Soothing Syrup

has been used for over FIFTY YEARS by MILLIONS of Mothers for their CHILDREN while TEETHING, with perfect success. IT SOOTHES the CHILD, SOFTENS the GUMS, ALLAYS all pain, CURES WIND COLIC, and is the best remedy for DIARRHOEA. Sold by Druggists in every part of the world. Be sure and ask for Mrs. Winslow's Soothing Syrup and take no other kind. 25 Cents a Bottle.

An Old and Well-tried Remedy

BEFORE COMING TO WASHINGTON IDAHO OR OREGON LOOK UP

LEWISTON-CLARKSTON

Unusually Low Railroad Rates in March and April. Mild climate; superb scenery; fine hunting and fishing; rich farms, orchards, gardens; immense yields of grains, grasses, apples, peaches, grapes, melons, berries; live stock, dairying, poultry; mines, timber. Five new railroads. Growing cities. Head of all-year navigation from Pacific Ocean. Manufacturing and jobbing. Investment opportunities. Good schools and churches. For free information write today to Department H, LEWISTON-CLARKSTON BUREAU, Lewiston, Idaho.

Do You Burn Kerosene? If so get one-third more light with a "Bing Glass" Lamp Burner. The glass top does it. They are great—fit common lamps. Send your dealer's name to-day and get for a Bing—size No. 1 for 2 post paid.

BING BURNER CO.
Dept. 32, Minneapolis, Minn.

USE OUR MONEY

We helped 10,000 Agents last year. Goods shipped on 30 days' credit; deliver and collect before shipping. Portraits 35c; frames 15c; sheet pictures 25c; escopes 25c; views 1c; all art goods at lowest sale prices. Big catalog and sample outfit for 25c. **CONSOLIDATED PORTRAIT & FRAME CO.** 200-124, West Adams St., Chicago, Ill.

ROYAL Baking Powder Absolutely Pure

A wholesome cream of tartar baking powder. Makes the lightest, best flavored biscuit, hot-breads, cake and pastry.

Alum and alum-phosphate baking powders are injurious. Do not use them. When buying baking powder be sure the label specifies cream of tartar.

well-meaning visitors? So many people rush up to an infant, talk nonsense in a loud voice, or cover him with kisses. Sometimes the tiny victim will scream and refuse to be pacified until the mother or nurse rescues him from his tormenters; sometimes he stands it in silence. But very few babies like sudden familiarity from strange persons. By the end of the fourth month they can generally recognize people, and while it is well to accustom them to the sight of strangers, they should not be subjected to the shock of being caught into unfamiliar arms, or shouted at by unfamiliar voices. Do not allow the little baby to be violently tossed into the air in order to make him laugh and crow. Baby is a very delicate creature, and should be handled very delicately and gently. Do not allow "romps" with the baby just before bedtime. His playtime should be just after his morning nap. We are warned that babies should not be kissed on the mouth. Consumption, diphtheria, throat diseases, mouth diseases, and many other dreadful things may be contracted—and frequently are—in this way. It is very hard to resist kissing a baby, but the baby has rights of his own, and his health and happiness are of far greater importance than our pleasure. Be good to the baby."

Some Good Cake Recipes.

Date Cake.—One-half cup of sweet milk, 1/2 cup of soft butter, 1 1/2 cup of flour, 1 1/2 cup of brown sugar, 2 eggs, 1/2 teaspoon each of nutmeg and cinnamon, 2 teaspoons baking powder, 3/4 cup of finely chopped dates. Beat 3 minutes and bake.

Cream Cake.—One cup of sugar, whites of 3 eggs, 1 cup of thick sweet cream, 1 teaspoon lemon extract, a pinch of salt, 2 teaspoons baking powder sifted with flour enough to make quite stiff. Bake in layers and fill with whipped cream.

Coffee Fruit Cake.—One cup molasses, 1 cup brown sugar, 1 cup butter, 1 cup raisins, 1 cup currants, 1 egg, 1 cup coffee, 1 teaspoon soda, 1 teaspoon cinnamon, allspice, and cloves, 4 cups flour; mix well, bake two hours in a slow oven. This makes one layer cake or enough for six meals in a family of five. It is approved by the addition of two eggs.

Coffee Cake.—One cup of butter, 1 cup of sugar, 1 cup of molasses, 1 cup strong coffee, 5 cups of flour, 1 pound raisins, 1 teaspoon of soda, 1 teaspoon each of cinnamon and allspice, and 1/2 teaspoon of nutmeg, 3 eggs, and 1/2 cup of molasses.

Velvet Sponge Cake.—Two eggs well beaten with 1 cup of granulated sugar, add 1/2 cup sifted flour; mix well. Now add another 1/2 cup of flour stirred with 1 teaspoon of baking powder and a pinch of salt; mix quickly and lastly add 1/2 cup of boiling water. Have the oven hot and bake immediately.

To farm to the best advantage every farmer in Kansas should take THE KANSAS FARMER.

The Young Folks

Young Women's Christian Association.
Any Young Woman who is planning to come to Topeka, will find peculiar advantages at the rooms of the Young Women's Christian Association, 622 Jackson Street. Best rooms, reading room and lunch room are at the disposal of all women at any time. A boarding house directory is kept at the rooms, and also an employment bureau, free of charge. On each Sunday afternoon, at 4:15, a gospel meeting held to which all women are invited. The first week of October is the time set for the opening of the club work, and the classes in Bible Study, in English, Parliamentary Law, Sewing, Water-Color and Travel. The Gymnasium also opens then, with classes in Physical Training under a competent instructor. The printed announcements will be mailed on application to the General Secretary. A cordial invitation is extended to out-of-town women, especially to make use of the rooms.

Whistle.

As a boy when coming homeward,
When the sun had said "Good night!"
Just before the stars were shining,
When the road was scarce in sight;
When the woods seem thickly peopled;
When the seconds drag like years;
Did you whistle through the darkness,
Just to drown your mounting fears!

When the owls had joined in hooting,
Sending down your back the chills;
When the silence fell upon you,
Rousing weird and ghostly thrills;
When the prancing, dancing phantoms,
Chased each other here and there;
Did you whistle through the darkness,
That you might not seem to care!

When upon life's homeward journey,
Shadows fall across the way;
When the seeming dangers threaten;
When 'tis neither night nor day;
When the hours with fears are frightened;
When the road is scarcely plain;
Whistle! Whistle through the darkness!

Whistling is not always vain.

Whistle, man, and whistle loudly!
Make the world with music ring!
Never mind the tune you whistle;
Whistle! Whistle anything!
Phantoms vanish when you whistle;
Half the dangers disappear;
Whistle, then! O, whistle! Whistle!
You, at least, can conquer fear.

—Elmer Bass.

Little Fairy—the Story of a Pet Canary.

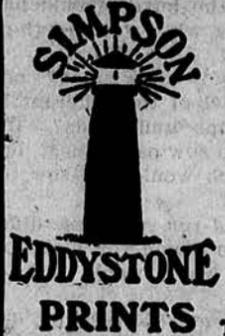
Little Fairy was the gift of a dear friend and soon became the pet of the whole family. He had a delicate frame, and his yellow plumage was varied by a dark green cape, or pelerine, and a tuft on his head.

Naturally tame, and being constantly with us, he developed many human traits of character. He was allowed to fly freely about, care, of course, being taken that the windows were closed. He was particularly fond of lighting on my shoulder or that of my sister, and liked to feed from our lips. Once even he tried to feed me as the parent bird feeds its young. At breakfast time he often hopped about on the table and helped himself to anything he liked the looks of, if not prevented.

Once I placed a small, shallow paper box near his cage and opening it, showed its contents to him—hempseed, of which he was very fond—and then replaced the cover. I then opened the cage door and invited him to help himself. In a second he was out of the cage, and going to the box he lifted up the cover, which, however, immediately fell back in its place. Fairy seemed to consider what would be the best thing to do, turning his head about first on one side and then the other, and lifting the cover once more, gave it a little twist on one side, which left the seeds uncovered, and proceeded to help himself.

At another time I tied a piece of apple to a string, showed it to him, fastened one end of the string to the wires of his cage, and then dropped the piece of apple down so that he could not see it. He immediately began to pull up the string with his bill, holding it fast with his claw until he brought the apple within reach.

If a piece of sponge cake, left in Fairy's cage, became hard and stale, he used to dip it into his drinking glass or his bathtub until it was soft enough to suit him. Our father used to bring him home plantain, or grassseed, or chickweed, and as soon as he entered the room and Fairy caught sight of him, he would fly about his cage in the most excited manner and seemed so impatient to get it that he would open his wings and scold and pretend to be very angry, flying at and picking at my father's fingers apparently fiercely, but really gently, if he



Simpson-Eddystone Black & Whites

Dress-making requires a great deal of time and work; and flimsy material will not do.

Simpson-Eddystone Prints are substantial in quality with patterns of exceeding beauty that do not fade. Some designs have a new silk finish.

Ask your dealer for Simpson-Eddystone Black-and-Whites.

Three generations of Simpsons have made Simpson Prints.

The Eddystone Mfg. Co. (Sole Makers) Philadelphia.



LINCOLN BUSINESS COLLEGE

THE FARMER BOY of today is the successful business man of tomorrow. A business college education is the key to success. If obtained at the proper school it can be easily and quickly acquired.

OUR SCHOOL has graduated hundreds of young people during the past few years and they are in good paying positions. We will help you succeed.

Write for catalogue. It is free.

Thirteenth and P St., LINCOLN, NEBRASKA

The University of Kansas

.....Lawrence, Kansas.....

Equipment of grounds, buildings and apparatus now valued at \$1,225,000.

Campus of 170 acres; thirteen large buildings with a \$100,000 Gymnasium in course of erection. Seven Schools: Graduate; The College; Engineering (civil, electrical, mechanical, mining, chemical); Fine Arts, Law, Pharmacy and Medicine.

FACULTY OF 90 GIVE FULL TIME TO INSTRUCTION. Over 100 eminent specialists lecture before the students of Medicine. SEVENTEEN HUNDRED AND SIX STUDENTS IN 1906-07. Catalogue and other information may be had by addressing

The Chancellor or Registrar, Lawrence, Kansas

Topeka Business College

The School that always gets you a good position in

- BOOKKEEPING
- SHORTHAND
- TELEGRAPHY
- CIVIC SERVICE or PENMANSHIP.



Address TOPEKA BUSINESS COLLEGE, Topeka, Kan.

Business University

Established in 1879; thousands of students employ us; the most thorough instruction; fine catalogue free.

E. E. GARD, Prop., 211 Edmund St., St. Joseph, Mo.

NORMAL COMMERCIAL SHORTHAND TELEGRAPHY

961 Annual Enrollment POSITIONS SECURED or tuition refunded. Our Fare—Paid by the school. Send for full information and free catalogue. State course desired. Allen Moore Chillicothe, Mo.

C. W. PECKHAM, President, Haven, Kans. R. R. BEALL, Manager, Kansas City, Mo.

The National Grain & Elevator Co.

Receivers and Shippers of Grain.

This Company is conducted on the cooperative plan by the Independent Cooperative Elevators. We are the terminal for Farmers and Independent Elevators and solicit your membership and patronage.

ARE YOU POSTED

on the recent development in the Grain Trust investigation by the Interstate Commerce Commission? IF NOT, ASK US. Why don't you farmers fight the Trust? We will help you, if you will help yourselves.

DO YOU KNOW

that the President of the Kansas City Board of Trade admitted in his testimony at the hearing of the Interstate Commerce Commission that they had boycotted The Independent Farmers' Terminal Co.?

The National Grain & Elevator Co. Kansas City, Mo.

Reference—The Editor of this paper.

34 Years Selling Direct

Our vehicles and harnesses have been sold direct from our factory to user for a third of a century. We ship for examination and approval and guarantee safe delivery. You are out nothing if not satisfied as to style, quality and price.



We are the Largest Manufacturers in the World



No. 750 Spindle Seat Bike Gear Driving Wagon with 4 in. Guaranteed Rubber tires. Price complete, \$55.00. As good as sells for \$55.00 more.

Selling to the consumer exclusively. We make 50 styles of Vehicles, 65 styles of Harness. Send for large, free catalogue.

No. 333. Light Canopy Top Trap. Price complete, \$75.00. As good as sells for \$55.00 more.

Ekhart Carriage & Harness Mfg. Co. Ekhart, Indiana

thought too much time was taken in arranging it between the bars.

One day, when I was practising at the piano, he flew up to the parlor and stood on the top of the music leaves, refusing to let them be turned over, and at another time he took possession of the upper keys of the instrument and tried to keep us from making use of them. In a like spirit he lighted one day on a piece of work I had in my hand, and, seizing hold of the thread in my needle, interfered with my sewing.

On one occasion he was not feeling quite well, and, as he was standing on my hand, he quietly put his dear little head under his wing and went to sleep, while I held my hand pressed firmly against my breast till he woke up. Equally touching, too, it was to have him fly on my shoulder or that of my sister and, looking up at us, pour forth an ecstatic love song, flapping his wings at the same time.

There was so much music going on in the house, both instrumental and vocal, that we thought his singing became somewhat modified and changed, as if he were trying to imitate the sounds that he heard. When I practised my vocal exercises and trilled, he tried to see if he could not out-sing me, and his breath was often longer than mine.

After a while a mate was given to Fairy, but there was never much affection between them. She turned out to be rather ill-tempered, and he cared more for his human associates than he did for her. At last there came three little baby birds in the nest, and then later four more. Their names were Antonio, Angelo, Bellini, Verdi, and Otto, and the two little sisters were called Jessie and Bessie. All were given away from time to time to different friends except Otto, the youngest, who looked more like Fairy than the others did; but the mother bird got tired of her children, and one day we found that she had pecked little Otto and hurt him, so she was taken out of the cage and soon sent away. We thought we would see if Fairy would take care of his baby, and placed Otto in another cage close by so that Fairy could feed him if he would. To our delight he began at once to take care of him and was so tender that we put them into the same cage.

One summer we took the birds out into the country with us, where we had a lovely place on the slope of Blue Hill; but in the fall Fairy grew ill. Whether he had been too much exposed to the air during the time of molting, or whether, as he was as much as ten years old, he had lived out his appointed time, he became worse and worse and finally died. During his illness he used to sit on his perch with his head beneath his wing, and if my sister or I came into the room, he would look up and give a little chirp of welcome. Then, as he grew too weak to put out his head, we heard a little faint chirp. This he only did when we came in; he took no notice of any other step. His death was real grief to us, and we buried him under the beautiful pine trees. On the following day a bird flew to a tree close by and poured forth an enchanting song. I thought, "Is this Fairy's greeting to us from the spirit land?"—Ellen M. Ward, in Christian Register.

This is for You—Read It Carefully.

You will be the farmer of tomorrow. Are you getting ready for what you will have to do?

Do you know how to harness and hitch up a team safely to every kind of a farm implement or vehicle? Can you take care of your own team every day in the week, whether they are at work or not?

Can you keep the farm machinery in good order, from the grindstone to the reaper and binder? If something gets out of rig, would you know how to fix it?

When father is away, are you able to step right out and do all the work that needs to be done—caring for the cattle, feeding the sheep, hogs, hens, and cows? If a cow or horse is sick, can you tell what to do?

Do you know what calves and lambs

are worth, so that you could make a good sale if the buyer should happen to come along when you are the only one at home?

Do you know how many pounds make a bushel of the different kinds of farm grains and seeds? If you were asked to sow oats, wheat, or barley, how much would you sow to the acre?

When would you sow these different crops? When would you plow for potatoes, and when would you plant them?

When the fence needs fixing, do you see that it is done without telling? In short, are you true, brave, manly, and earnest in all you do? That is the kind of men we need on the farms of this country.

You are one of the boys to make that kind of men.—Farm Journal.

The Little Ones

A Spring Airing.

All the good little kittens have washed their mittens,
And hung them up to dry;
They're gray and fluffy, and soft and muffy,
But it's time to lay them by;
And now that we've come to the spring of the year,
They have them all out airing here;
And that is the reason, I do suppose,
Why this little tree that every one knows,
By the name of Pussy Willow goes,
—Martha Burr Banks, in Good House-keeping.

A New Kind of Bird.

ANNA DEMING GRAY.

Yes, there it was again—clear, sweet, and high. I kept very still in my place, for I hoped to see both birds. They were answering each other, and coming closer. I was hidden by the trunk of a great oak-tree. I love the woods even in winter, and I come up here sometimes, to my favorite place, though the trees are still bare and brown. I like to hear the soft wood-sounds, and think how close under the earth and dead leaves the first violets are lying, all folded softly, waiting for April rain and sunshine. I hardly breathed, watching for the birds to fly to one of the bare boughs near me.

Then as I listened, the call came once more, this time not ten feet away.

And what do you suppose I saw between the trees? Not a wild, brilliantly colored redbird, coaxing his shy mate to the bough above me, for a morning chat, or to practise before her some sweet new note he had caught. Not this at all, but a ragged little boy of ten. His round, freckled face turned up to the bare trees; his shabby cap pushed far back on his head, and his mouth puckered to the clear call I had heard.

He gave it again as I watched him. So clear, so sweet and high that I wondered a dozen redbirds did not fly to meet him, instead of one.

Then came the flash of a bright wing, and to the tree above me the bird flew, settling with a soft flutter, her head tipped side ways, listening.

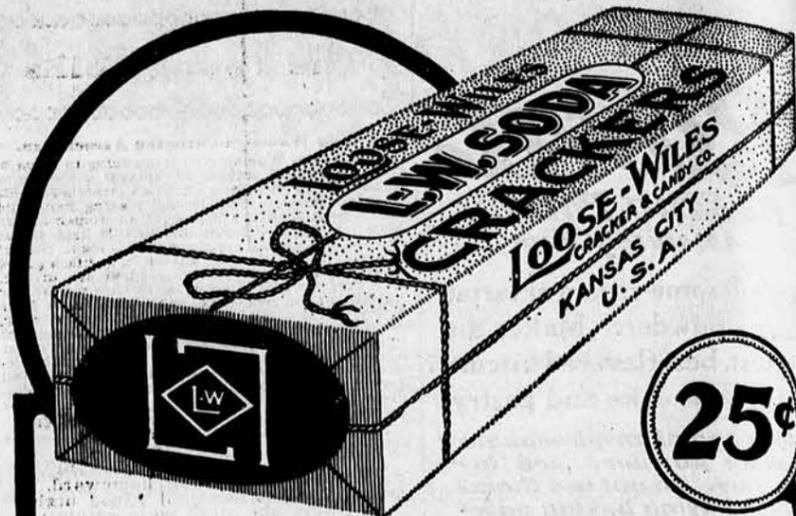
Now I like small boys; even better than I do birds; and this small boy I felt sure I should like. He looked so very jolly and good-natured, and the way he had coaxed the bird by his call seemed wonderful to me. It was not strange that I had been deceived into thinking him a real bird, when even the birds themselves had been deceived. He seemed to scarcely move, but softly, softly, his hands came up, and I saw that he had a sling shot. Somehow I knew that he was the kind of a little boy that would hit the mark.

"Wait a minute," I said, "I want to tell you something."

There was the quisk flash of a bright wing again at the sound of my voice, and the bird was gone. The boy's hands dropped and he turned a surprised and not at all pleased face toward me.

"What did you do that for?" he asked. "I'd have had that one sure—that was worth fifteen cents to me."

"It is worth more than that to its mate," I said. "And it's worth a hundred times more than that, to all



The Big Package and the Little Price

A 25-cent package of Loose-Wiles Sodas is so big the price is lost sight of—the crackers are so good all others are forgotten.

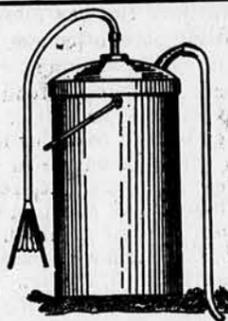
They are the perfect soda crackers—the kind Uncle Sam's experts say are the most wholesome and nourishing form of wheat food known.

There is as much difference between Loose-Wiles Soda Crackers and some Soda Crackers sold in bulk as there is between a porterhouse and a rump steak. Loose-Wiles Sodas are clean—crisp—flaky—wholesome and appetizing from first to last—made from selected soft winter wheat flour by our exclusive modern method of baking.

Put up in the distinctive Triple Protection package to assure you of your money's worth.

That's why your grocer likes to sell them. Ask him.

LOOSE-WILES KANSAS CITY U.S.A.
CRACKER & CANDY CO.
"The Modern Bakers"



Destroy the Gophers
In Your Alfalfa Fields by Using
Saunders' Gopher Exterminator

This apparatus forces a deadly gas through their runways and is warranted to kill gophers within 100 feet of operation. With it a man can clear from five to six acres of gopher-infested land in a day at a cost of twenty cents per acre. The poison we use can be gotten at any drug store. Satisfaction guaranteed or money refunded. Complete outfit for \$5.

Flint Saunders, Lincoln, Kans.
Mention the Kansas Farmer.

these bare trees, and to the spring that is only waiting to begin to make the world all new, and green again.

"It's worth more than fifteen cents to you, too, for you could never have learned the redbird's call so perfectly, if you had not loved it to begin with."

He looked at me curiously, and then down to the toes of his worn shoe, as he dug it into the dry leaves.

"There'll be plenty more in its place," he said, sullenly.

"That one would never be again," I said. "It has a right to its life. Just think how it answered your call. It came from way over there by the river some place. I thought there were two birds coming, you did it so well."

"There's hardly a bird's call I can't make," he said, with some pride. "I come up here lots of times; these here Potwin woods have more birds than any other trees in town. I've seen you before. Once last summer you were up here with a whole raft of girls. They were havin' a picnic, and you gave me a norange and two doughnuts."

"Oh," I said. "Then we are old friends. Please tell me how I made you lose fifteen cents; and tell me how you ever learned that call. It's beautiful, and I do wish you would do it again."

He beamed with pleasure. There is nothing in the world more obliging

THE AUTO-FEDAN HAY PRESS

3-Stroke Self Feed Run In Satisfaction Guaranteed



THE AUTO-FEDAN HAY PRESS CO.
1064-Jefferson-St., Topeka, Kans.

FARMERS ACCOUNT BOOK

A scientific Account Book for farm bookkeeping. Specially prepared and adapted for all farm accounts. Contains 200 pages 10 to 13 inches wide headings printed in for all farm and live stock accounts. Each account accompanied by instructions as to how to charge or credit in that account. Really an Automatic account book. This book and know what your expenses are and what you are making on each department of your business. Price \$2.00 prepaid to any part of the United States. Money back if you return it. Descriptive circular mailed on request. Ten cents in stamps will buy you a 50-page INSTRUCTOR in business Writing and Lettering, price \$1.00. Address

H. G. PHELPS & CO.
Bozeman, Mont.

in a small boy. He puckered his mouth to the note once more. Then he gave the first notes of a robin's song, and followed this by the dismal, prolonged call of an owl.

"I can't understand why you want to kill birds," I said, "when you can have your best friends—not hurt yourself, nor allow any other bird to hurt them, if you could help it."

He thought about this for some moments, his shoe kicking the leaves away and that. "Why, I do like birds," he said, presently. "I guess I never thought much about it. But I'd rather know about birds than most things. You see, a milliner on the avenue said she would give me fifteen cents for every pair of redbird wings I bring her." "Why aren't you in school?" I asked.

"Well, you see, I didn't have any money nor a coat fit to go in, and the Providential Society there on Jackson street they would get me some. And my dad said he wouldn't have it. He thought we were pretty poor, but not poor enough to be onto the Providential Society. So I am just doing odd jobs now and then, to earn myself some money."

"I see," I said. "And if you'll take ashes out of my furnace, I'll pay for it. It will be cleaner work than killing the birds that come when you whistle to them. You can do it in the morning. It won't take long. I'm reading the best book; it's all about birds of Kansas. I'm going to pick up here again Saturday afternoon, and if you happened to be here, I could tell you about it."

And this was the way I came to know my little bird-boy.

Club Department

OFFICERS OF THE STATE FEDERATION OF WOMEN'S CLUBS.

- President.....Mrs. May Belleville Brown, Salina
- Secretary.....Mrs. L. E. Wishard, Iola
- Treasurer.....Mrs. W. I. McDowell, Salina
- Recording Secretary.....Mrs. W. D. Atkinson, Parsons
- Corresponding Secretary.....Mrs. H. B. Asher, Lawrence
- Publicity.....Mrs. Grace L. Snyder, Cawker City

Our Club Roll.

- Clayton Club, Fortwa, Kansas, (1902).
- Women's Literary Club, Osborne, Osborne County (1902).
- Women's Club, Logan, Phillips County (1902).
- Domestic Science Club, Osage, Osage County
- Women's Social Society No. 1, Minneapolis, (Ottawa County) (1888).
- Wagon Club, Highland Park, Shawnee County
- Wagon Club, Phillipsburg, Phillips County (1902).
- Wagon Club, Ford, Ford County (1902).
- Valley Women's Club, Iola, Allen County
- Wagon Side Forestry Club, Topeka, Shawnee County (1903).
- Wagon Club, Grant Township, Reno County
- Wagon Club, Rosalia, Butler County (1904)
- Wagon Club, Wakarusa Township, Douglas County (1899).
- Wagon Club, Marysville, (Marion County) (1902).
- Wagon Club, Anthony, Harper County
- Wagon Club, Embroidery Club, Madison, Greenwood County (1902).
- Wagon Club, Reading Club, Cawker City, Mitchell County (1903).
- Wagon Club, Russell, Kansas.
- Wagon Club, Sunflower Club, Perry, Jefferson County
- Wagon Club, Sterling, Rice County (1904).
- Wagon Club, Reading Club, Osage County.
- Wagon Club, Mutual Helpers, Madison, Kansas (1906).
- Wagon Club, Side Study Club, Delphos (1906).
- Wagon Club, Domestic Science Club, Berryton, Shawnee County
- Wagon Club, Improvement Club, Vermillion, Marshall County (1903).
- Wagon Club, Columbus, Kansas (1897).
- Wagon Club, Reading Circle, Nemaha County.
- Wagon Club, Communications for the Club Department directed to Miss Ruth Cowgill, Editor (Department.)

Self-Culture.

T. STANLEY, ANTHONY, KANS.

At a beginning for this talk I want to say that each member of our club should live in her own manner, what she understands is meant when we use the expression "bad blood"—when we say, "Oh! they have bad blood in their veins, we need not expect much from them." I believe we each have a taint of this tainted blood coursing through our veins, and the first step in self-culture is to rid ourselves of it as far as possible. This will be made our bodies fit temples for the indwelling of the Holy Spirit, a condition we all desire. All self-culture should have this object in view, there can be nothing more engaging. To eliminate this "bad blood" let us take an unbiased inventory of our character qualities.

Through the mind's eye, look over all the desirable virtues, and see to what extent you do, or do not, possess them. Do not hesitate to probe deeply and thoroughly in this character examination. Some of your discoveries may surprise and pain you, but never mind, even your best beloved need not know what you find, and you can quietly set yourself to work building something better.

For use in this building you will find these useful materials, truth, honesty, fidelity, courage, industry, amiability, sociability, and I must add tact. This last trait will enable us to make the very best use of all the other attributes. Cultivate it with the most assiduous care. With the above materials make a firm start in self-culture. Make it your strongest desire to hold for yourself the very highest possible grade in the exercise of all these virtues. You will find that the family circle furnishes a fine opportunity to get in your work on this line.

After doing all possible for improvement, working on the above qualities as a base, then take a review, by taking up separately all the qualities that are negative to whatever is good. You may be surprised at finding yourself in possession of so many of these.

I find it very hard to stand strictly by the truth. I mean this in its broadest, strictest sense, with many side issues. I place charity on an equality with truth, but not in a consideration of money values. It is in the many opportunities given us to do as we wish others to do. I know of no trait of wider scope for serving our fellow man.

Courage to hold fast to all the good thoughts, and to put them into our daily lives is another strong binder for our building. While improving our temple with the exercise of the cardinal virtues, we may as a side issue, secure for ourselves by various means a highly developed mentality, but never at the expense of those principles demanded by the Decalogue.

A Book on Silage Free.

A vast amount of knowledge on the subject of Ensilage, in plain practical language one can easily understand, has been boiled down to 216 pages in a new book entitled "Modern Silage Methods."

The book is library size, copyright 1906, has over 40 illustrations, and is well indexed. Many State Agricultural Colleges use it as a text book in teaching. A copy will be sent free by the publishers, Silver Mfg. Co., Salem, Ohio, to all who mention the KANSAS FARMER in writing.

The Merritt Creamery, Poultry, and Produce Company.

One of the growing industries of the thriving city of Great Bend, Kans., is the Merritt Creamery, Poultry, and Produce Company. They started a creamery a few years ago, and their constantly increasing business has forced them to increase their plant to nearly twice its original size. They are now adding a poultry department, and expect to raise chickens on a large scale. The buildings they are erecting for this purpose are commodious and up-to-date in every particular. Their incubator and brooder house is 22 by 48 feet and is a marvel of convenience. It is heated by steam, the pipes passing beneath the floor, so that the young chicks can be kept warm in the coldest weather. They have six incubators running at the present time, with a capacity of 1,320 eggs, and expect to add four more machines, giving them a capacity of 2,200 eggs. The Old Trusty incubator, manufactured by M. M. Johnson, of Clay Center, Neb., is used exclusively, with the very best results.

The colony houses are large and conveniently arranged, with scratching sheds for stormy weather, and large "runs," enclosed with chicken wire and seeded to rye, afford ample range when it is pleasant.

They have a grinding house equipped with a feed mill and engine, where all their feed is ground, and once each day the poultry is fed a mash cooked with steam from the creamery.

At the present time a mixed lot of chickens is being hatched for the market, but the company calculate to raise nothing but pure-bred stock of the very best varieties. Mr. Marker, of Marker Bros., is superintendent of the poultry department.

Every subscriber on renewing his subscription should remember to take advantage of our "blocks of two" proposition.



MRS. A. M. HAGERMANN

ALL WOMEN SUFFER

from the same physical disturbances, and the nature of their duties, in many cases, quickly drift them into the horrors of all kinds of female complaints, organic troubles, ulceration, falling and displacements, or perhaps irregularity or suppression causing backache, nervousness, irritability, and sleeplessness.

Women everywhere should remember that the medicine that holds the record for the largest number of actual cures of female ills is

Lydia E. Pinkham's Vegetable Compound

made from simple native roots and herbs. For more than thirty years it has been helping women to be strong, regulating the functions perfectly and overcoming pain. It has also proved itself invaluable in preparing for child birth and the Change of Life.

Mrs. A. M. Hagermann, of Bay Shore, L. I., writes:—Dear Mrs. Pinkham:—"I suffered from a displacement, excessive and painful functions so that I had to lie down or sit still most of the time. Lydia E. Pinkham's Vegetable Compound has made me a well woman so that I am able to attend to my duties. I wish every suffering woman would try Lydia E. Pinkham's Vegetable Compound and see what relief it will give them."

Mrs. Pinkham's Standing Invitation to Women

Women suffering from any form of female illness are invited to write Mrs. Pinkham, at Lynn, Mass for advice. She is the Mrs. Pinkham who has been advising sick women free of charge for more than twenty years, and before that she assisted her mother-in-law Lydia E. Pinkham in advising. Therefore she is especially well qualified to guide sick women back to health.

One-way tickets at this low rate will be on sale daily, March 1 to April 30, at Kansas City and St. Joseph, Mo., and all Santa Fe stations in Kansas and Oklahoma. Corresponding rate from other points.

Free chair cars; tourist sleepers, small extra charge. Personally conducted parties tri-weekly.

A tourist booklet, with full information about the trip and trains, will be sent free on request. Valuable information about lands in our folders, "San Joaquin Valley," "Free U. S. Government Lands," and "The Earth."

J. M. Connell, General Passenger Agent,
The Atchison, Topeka & Santa Fe Ry.,
Topeka, Kansas.

\$31,500,000.00 at Risks

30,000 Members

The Farmer's Alliance Insurance Company of McPherson, Kansas

We furnish insurance at cost; 15 years of successful business. Why carry your insurance with others when you can get it in this company at much less cost. Write for full particulars of our plan.

C. F. Mingenback, Sec., McPherson, Kansas

Ride in the FLYER 30 Days FREE

Let Your Wife or Sweetheart Decide

Built by Experts

We are shipping White Hickory Flyers all over the country, with the understanding that if the test of the road doesn't prove them the equal in elegance, easy-riding qualities, durability, workmanship and material, to top buggies that others sell at \$75 to \$100, we are to take them back and pay the freight both ways. We make you the same offer.

White Hickory Flyer

has tough white hickory wheels and gear and all the late improvements. Every buggy is a beauty.

Choice of 3 Plans of Payment

Choose the one most convenient for you.

2-Year Legal Bond Guarantee

\$50 FLYER

covers material, workmanship—everything! Signed in ink by our General Manager. WE UNDERSELL ALL COMPETITORS, because we own our own factories and make everything ourselves complete from raw material. CATALOGUE AND OVER 100 SPECIAL PRICE OFFERS FREE. We positively save you \$25 to \$50 on a top buggy. Write CONSUMERS CARRIAGE MFG. CO., Dept. AB, CHICAGO, ILLS. References—Peoples Trust and Savings Bank; all Commercial Agencies.

Dairy Interests

The Dairyman of the Future.

W. W. MARPLE, CHICAGO, BEFORE THE KANSAS STATE DAIRY ASSOCIATION. (Continued from last week.)

THIS BOY'S INTRODUCTION TO SCHOOL. Aside from the novelty and temporary excitement, was not as fascinating as it was impressive. He was taken over in a buggy by his father and introduced to the teacher, as if he was of some importance, because the horse and buggy was needed to haul a candidate for the legislature around the community to secure votes, and thereby prevent the country from going to rack through the untimely victory of the opposing party. For the further consideration that the opportunity to do this was an unmistakable evidence of influence, and would entitle the owner to sometime act as chairman at a township meeting, with a possible chance of eventually getting on the schoolboard or being road-overseer. There was no time to go and explain to that teacher what the disposition of the boy was, and how he could best be managed so as to get the best results, because there was a coit to break and it was highly necessary to acquaint the hired man with his disposition so that in commencing he wouldn't make any mistake, that might interfere with the perfect development of an animal that might some day, under favorable circumstances, bring sixty or seventy dollars.

When he arrived at the schoolhouse, he had run a mile. Those he went with were larger and it was hard for him to keep up. He went on a trot and was out of breath, and although unconscious of it, his little legs were so tired he had just about reached the limit. He wasn't given a nice comfortable seat and a little desk. He was taken up in front within reach of the teacher's hickory, and put on a narrow seat without any back to it, and just high enough so that his feet lacked about three inches of touching the floor. After sitting there about an hour, taking in the things that were a revelation to him, he discovered his foot was asleep, and when he commenced to wiggle and twist, trying to reach the floor with one foot, he was blamed for insubordination and told if he didn't keep still he would get a licking. Finally the teacher called him up, with a kind of an imperial, pedagogic tone of voice that would frighten a man, and asks him his name and the boy had forgotten it. His sister has to tell it and she does it with the blush of shame at her brother's ignorance, and the whole school laughs and the boy cried and everything relaxes and he is, for the first time in his life, attracting some attention. His experience is related at home in the evening, he is asked if he isn't ashamed of himself, and is threatened with having to stay at home. Then he thinks somewhat like the little girl who said to her mother, "Mama, if I marry will I have to have a man like papa?" Her mother answers, "Yes, my dear." Then she says: "If I don't marry, will I have to be an old maid like aunt Kate?" And when she was told yes, she heaved a sigh and said, "This is a pretty hard world on us women, ain't it?" It wouldn't surprise me if it was hard for this boy to decide between home and school. To my mind, he wasn't having a very butterfly life at either place.

The boy returns to school to be laughed at for not knowing his name, and to have it thrown at him every so often, that some little "kid" a year younger than him, even said a speech. He continues to sit on that high bench with a lot of other boys. He has no book, he has nothing to do, and he is expected to sit still. Once or twice a day, if the teacher has time and doesn't forget if he calls the boy up and spends three or four minutes teaching him his A-B-C's. Do you wonder that the little fellow throws up his hands pretty often and says,

"May I get a drink?" And then in a little while he forgets he has had one and asks again? Do you know what I would do? I would say, yes, and when I want you I will call you. He is finally told he is drinking too much, although in every theatre where the entire show isn't any longer than from school opening until recess, an opportunity is given the men, about three times, to go out and get a drink, and nine hundred out of a thousand avail themselves. This boy, five or six years old, is expected to sit still for two and one-half hours in a place where the torture is almost equal to the inquisition of the Dark Days, and do his drinking at noon and recess. Do you think this boy's start was fair to him? Was it fair to his precious mother, who gave him birth? Was it fair to the teacher? Was it fair to the world? The answer comes back to me from all the kingdoms of the earth, and it is an emphatic no.

SCHOOL DAYS AN IMPORTANT EPOCH OF HIS LIFE.

I love this boy as I do myself, and I am only repeating what has been said so many times, but like the sweet story of old, it never gets stale. We ought never to tire of listening to it. This is a most important epoch in his life. He should be made to feel it. The teacher should be made to feel it. It should be accompanied with some demonstration. It should be in your family a legal holiday. If some member of your family or your neighbor's family is going to California, you suspend work and spend the day with them to see that they get started, and you have a boy, an immortal soul, flesh of your flesh and blood of your blood, and he is starting on a journey that leads to Eternity. He can't come back and start again; he can only make one start. Do you want it right? As you expect to meet him in Unknown, and so you must render an account for your stewardship in connection with this precious charge, I ask you to start him let the Recording Angel inscribe on the book Remembrance for 1907 the names of millions of boys started right.

Do you ever ask him what he learned today, or are you interested in his not tearing his clothes? Are you helping him, or is he playing a lone hand? Do you see his report-cards, and if so, do you compliment his 100-marks, or only refer to the low grades and chide him for it, or do you just look at his mark on deportment? This boy now passed through what is to him long period of time that is uneventful. In the estimation of the world he does not make much history, or, if he does, it's never written up. Immediately after his introduction into school he began sinking into oblivion and his life has been one of obscurity. Since he was too big to kiss, the politician has no further use for him until he is old enough to vote. The minute he steps across the threshold from twenty to twenty-one the cheap politicians calls him Mister and asks him to "take something." The big girls have no use for him until he grows a mustache; the designing mama's with marriageable daughters ignore him until he is full-grown and accumulated sufficient wealth to buy a carriage, then he receives a small pink perfumed envelope with an invitation to a party. The cold-blooded business man passes and repasses him and does not know who he is until the day he commences buying his own clothes, then he learns what this fellow's opinion of him has been for years. He finds out that he has been regarded as one of the brightest and most promising young men in the community. Oh, the flowers that are accumulated to place on our graves are the wonder of the age. I would that I carried the keys to world's flower-houses; I would open the doors of God's perfume factory, and fill the world with the sweet incense from Divinity's creative hand and I would scatter on each pathway the most beautiful flowers, and I would make beds of roses on which tired nature might be restored and with the choicest of all these, and with those of the rarest beauty and the sweetest perfume, I would fashion into a more beautiful crown, and with the hand



THE OLD PAN WAY

50% MORE CREAM

The old pan way of raising cream don't pay—it's too mussy and fussy—too much work for the women. And it don't pay in dollars and cents because you actually lose 50 per cent of the cream you ought to get. You can increase your cream product about 50 per cent over pan setting; 33 per cent over cans set in cold water; 25 per cent over patent creamers or dilution cans by using the

DON'T PAY

SHARPLES TUBULAR SEPARATOR

Besides you can skim the milk immediately after milking—save the handling and the expense of storage. A good milk-house costs more than a Tubular and isn't half so profitable—even if you already have the milk-house it will pay in labor saved, in crocks and pans saved, and the increase in cream will be all clear profit. Of course, when you buy a separator, you want the one that will get you the most profit—you'll want the Tubular—the reasons why are all given in a book which you will want and which we want to send to you free if you will only write for it, ask for book H. 165



THE TUBULAR WAY

Mr. Mac Tuttle, Danville, Ill., says "The first week we used the Tubular we made a gain of 12 lbs. of butter from five cows."

THE SHARPLES SEPARATOR CO., Chicago, Ill. Toronto, Can. WEST CHESTER, PA.

The Empire proves its claims



CLAIMS are words, proofs are facts. Mere claims have often sold goods. Proofs are a record of dollars made. You, or any one else, don't want the cream separator that claims the most. You want dollars from your handling of milk. Therefore you want the proved separator, the dollar-making

Frictionless Empire Cream Separator

Here are some facts that will interest you: The Empire Turns the most easily—is practically frictionless;— Is most easily washed—a few simple parts without a cranny or crevice in them;—

Gets all the cream, and the highest quality of cream at that;— Is durable—will not get out of order—will cost you practically nothing for repairs. These facts spell dollars for you, if you give them the opportunity.

Let Us Prove Them

Send for our new catalogue and proofs. Ask for our free dairy books too. They cost you nothing, but will show you where you can make dollars.

Empire Cream Separator Co., Bloomfield, N. J. Chicago, Ill.



STANNARD'S PROCESSED CRUDE OIL Kills Lice and Cures Mange. There is no Remedy on the Market as Good for as Cheap. It not only kills all lice on cattle and hogs, but all nits, and one application does the work. Does not injure hair or skin. Can be used in vats or with brush. Also kills lice or mites on chickens. Put up in new 52-gallon barrels and sold for \$5 per barrel. I have used nearly all dips on the market and I say to you, from experience, this oil is better and more effective than any of them. Why pay \$50 per barrel when you can get a better article for \$5? I also sell a heavy Pure Crude Oil as it comes from the well that is a good lubricating oil, 52 gallons for \$3.50; an excellent grease to keep plow-shares and cultivating shovels from rusting. Try these oils and you will always use them. When ordering, state plainly what oil you want the Processed Oil or the Pure Crude. Send remittance with order. C. A. STANNARD, Emporia, Kans., Sunny Slope Farm. Please mention Kansas Farmer.

LIGHTNING PORTABLE WAGON SCALE and STOCK SCALE. All above ground. Steel frame, only eight inches high. Octagon levers. Tool steel bearings. Compound beam. Most accurate and durable. Write for catalogue and price. **KANSAS CITY HAY PRESS COMPANY** 129 Mill Street, Kansas City, Missouri.



of love, I would place it on the brow of her, whose son the Twentieth Century boy is I would exhaust the supply for the living until our graves would be as barren as the dust from whence we came, and to which we must return.

THE BOY'S HOME SURROUNDINGS.

During this boy's experience at school, what are his surroundings at home? How is he situated there? Let's discuss that for a moment, and let us be perfectly honest with ourselves. Let's talk this over confidentially. We'll not say anything to the boy about it. We think we have him fooled. I know we haven't, but if we think so we will go on the principle that "where ignorance is bliss, 'tis folly to be wise," and we will not disturb anybody's peace of mind who thinks the boy is fooled and imagines that he has a square deal, by sending an intimation to him and furnishing him with argument to bolster up his cause. There are two things the boy has in his home, and we all know it. That is, enough to eat and a mother's love. What he has to eat is evidence of a mother's love. Everything he has is evidence of her devotion and, God bless her, if she could she would add everything in the catalogue of comforts and luxuries, and wonder sometimes if she is having our cooperation to the fullest extent. When the time came that this boy had passed the trundle-bed period and had to have a room. Who selected it? What kind of a room was it? Did it have a southern exposure? Did he look out of a nice large bay-window on a beautiful landscape? I'm afraid not. The room of the boy I'm thinking about was in the northwest corner, where the hot afternoon sun would warm up the bed in summer, and where the blizzard would strike him in the winter and make him hardy. It's a little inconvenient to get to, but all right for a boy and handy for him to go up the back stairs. He has in the room a bed and dresser or bureau that used to be in his sister's room, but it got a little shabby and as it was all right for a boy whose life was a continual forgetting of the past and a hope for the future. The slats were loose and often fell out when he got in late. This resulted in his being asked at the breakfast table, if he couldn't come in without waking everybody on the place. The bureau drawers were crooked and when you pulled one out it came twisted, got fast and required an immense amount of grace to keep from saying something. One of the rollers was gone and any attempt to move it resulted in spilling water or sliding something off the top. The mirror in this bureau had lost a good deal of its quicksilver and was as spotted as a leopard. One corner was broken and there was a crack down the center which made it impossible to look into it without seeing double. There were two split bottom chairs with most of the bottoms out, sent up from down stairs. There was a comb with the teeth all gone from one end and a brush with the bristles mashed flat in the center, and a little fringe around the edge.

His wardrobe consisted of a suit or Sunday that his father was mended in, and his everyday suit was a suit of overalls and jacket, and a pair of galluses he knit himself. The overcoat that he didn't get till he was nearly grown, for fear of making him lumpy, was one his uncle wore for ten years, and it got too small so he gave it to the first fellow over whom somebody had sufficient authority to make him take it. His riding horse was a great, big, awkward colt that he was permitted to use to assist in getting it ridle wise. He had to tend him with a chain so as to be sure he wouldn't get loose. His saddle was an old, worn-out saddle-tree covered with a sheep-skin, and most of the time he had to use a blind bridle when the family went to church. There is just enough to fill the carriage and he rides the aforesaid steed. Every precaution has been taken in selecting his clothes and his horse, etc., to curb his pride that he inherited from his father, and to make him hardy. He has been taught the strictest economy by not giving him any money,

and by permitting him to crawl under the canvas at a circus while the rest of the family went in at the main entrance. He has been taught to work by keeping him at it from the time he was six years old, part of the time running the farm while his father was in the Legislature trying to get a bill passed to prevent child-labor. Above everything else in the world this boy has been taught the lesson of perfect contentment because of the daily admonition that the way to have all you want was not to want anything but what you have, and by the constant reminder that he was having a good deal easier time than his father ever had, and that if his father had enjoyed his advantages he would have considered himself on the top wave. Once every week day and twice on Sunday the boy was afflicted with the same old chestnut reminiscence from the head of the house about what a time he had when he was a boy—about his going barefooted until he was twenty years old, and never having any underwear until he was of age, and never getting an overcoat until after he was married; how he went four or five miles to school and did all the chores morning and evening. He was a great man. I would make it a criminal offense to tell a boy that story, and the third time it was repeated I would send a man to the penitentiary for life.

ANALYSIS OF THE BOY.

Now ladies and gentlemen, in conclusion, many of you have listened to the discussion of intricate, technical, and scientific problems. This is considered the place to study feed problems, balanced rations, pasteurization, sterilizing, starters, etc. But the question comes very near home to us. Our hearts are stirred with feelings of emotion in discussing it. Let's give this boy, this historic boy, this twentieth century boy, some consideration at this time of good cheer. I would say to you, professor, close up your books of Latin and Greek. Lay aside your chemical instruments and appliances. Come down from the lofty pedestal on which your infinite research and years of learning have placed you. Talk to us in pure Anglo Saxon. Let your language be characterized with simplicity. Enter the laboratory of Human Genius, analyze this boy, and send him out in the world with the name of the ingredients of which he is composed written on him by one in authority, so we will know where to use to his satisfaction, and to the glory of his Creator. This boy doesn't need his rations balanced. He will do that. He doesn't need pasteurizing. He will keep. A little sterilizing might not hurt him occasionally, but his ability and his inclination to do that comes to him intuitively. There is just one thing that you have discussed that is applicable and necessary in his case. That's a starter. I would have you work at it until you had succeeded in getting one that would give a perfect flavor to his social, industrial, and commercial life.

I heard discussed in this convention last night existing evils in connection with dairying. I heard some suggestions as to remedies and the probable outcome unless they were applied. Have you any doubt as to its future? Are you pessimistic on the outcome? I say to you this morning in all seriousness and without any mental reservation, go to the source from which we have always gotten relief in our extremities, since the time when the boy Joseph sustained his people and kept them from starving by supplying them with corn in the land of Egypt. Turn this business over literally to the boys and quit wasting time on that vast army who are chained to their idols, and who have long since passed the chloroform period. Phil Armour said, "A boy counts one long before he can vote." There is an army of boys who are today carrying load after load of human freight on the elevators of hotels and large buildings in our cities and landing them safely at their rooms, and in their offices. There is an army of boys at their post of duty every hour of the day and night in all of our

LOW TEMPERATURE CREAM SEPARATORS

Ability to SKIM CLEAN at LOW TEMPERATURE is another important consideration in the purchase of a cream separator and one of the chief DIFFERENCES between the DE LAVAL and other makes of separators.

The ordinary cream separator is capable of doing reasonably good work only with milk at a temperature of over 80°. When the temperature is lower the skimming is so poor that the loss of butter-fat is great, while only a very thin cream can be run, and with most machines the bowl soon clogs and will not skim at all.

Farm separation is usually made above 80° but every user knows that there are frequently times when the milk must be separated cooler, unless a lot of trouble is gone to in heating it which must injure the quality of the cream and butter.

The superiority of the patent-protected "ALPHA-DISC" type of bowl construction used in the DE LAVAL machines is such that temperature makes little difference in results.

This is something so important in factory operation that it is one of the reasons why the creamery use of DE LAVAL machines is almost universal. Surely the buyer of a farm separator makes a mistake to overlook it.

THE DE LAVAL SEPARATOR CO.

Randolph & Canal Sts., CHICAGO. 1815 Filbert Street, PHILADELPHIA. 9 & 11 Drumm Street, SAN FRANCISCO	General Offices: 74 CORTLANDT STREET, NEW YORK.	109-113 Youville Squar MONTREAL. 75 & 77 York Street, TORONTO. 14 & 16 Princess Street WINNIPEG.
---	---	--



Before You Buy a Cream Separator
You owe it to yourself to investigate

The Peerless

Because: The Peerless is different from all others and its points of difference are in your favor.

It is the only machine that has a combination of the Hollow and the Disc bowl. That means double capacity or a smaller bowl for the same amount of work. That insures easier turning, less wear, easier cleaning and better cream—it doesn't break the large fat globules.

It Skims to a Trace

Write for free Catalogue, Guarantee and Special Terms.

Waterloo Cream Separator Co.
115 E. 2d Street, Waterloo, Iowa
Mention The Kansas Farmer.

large hotels answering the call bells, carrying ice water and ministering to the wants of guests. It's a boy that brings the telegram to your office. In the silent hours of the night, when you are peacefully slumbering, it's a boy that brings the sad news of a loved one in distress in some distant country, or the joyful news that unto the world a son is born. It was a boy that left on your doorstep, this morning, long before you awoke, a paper with all the happenings of yesterday, so that you might read while you eat. There is an army of boys to-day rending the air with their shouts of "Extra," carrying the news of each hour to a busy, bustling, nervous, expectant host; and this irrepressible boy goes in every avenue of social, commercial, and industrial life, undaunted by danger and not deterred by the elements. And we are grateful that he is to be the future dairyman. We love him for his energy as well as his heroism.

A little boy at a street crossing was about to be run over when his companion, a larger boy, jumped on him and shielded him by taking the blow from the vehicle himself. He gave up his life but saved the little boy. Just before breathing his last he was asked why he did this, and his answer was, "Why, me and Jim are partners." The legend of the boy that stood on the burning deck is a beautiful story of a boy's fidelity to a trust and his obedience to a command. It was a boy that scaled the Alpine heights carrying that banner with the strange device, "Excelsior," resisting the plaintive appeals to abandon the performance of a duty (whether real or imaginary) that meant certain death. It was a boy that took charge of the army of Virginia and led them on to

Canadian Government FREE FARMS



OVER 200,000 American farmers who have settled in Canada during the past few years, testify to the fact that Canada is beyond question the greatest farming land in the world.

Over Ninety Million Bushels of Wheat

from the harvest of 1906 means good money to the farmers of Western Canada, when the world has to be fed. Cattle Raising, Dairying and Mixed Farming are also profitable callings. Coal, wood and water in abundance; churches and schools convenient; markets easy of access; taxes low. For literature and information address the Superintendent of Immigration, Ottawa, Canada, or the authorized Canadian Government Agent

J. S. CRAWFORD
125 W. 9th St., Kansas City, Mo.

victory, and his name was Washington. It was a boy that composed the music that filled the musical world with delight and seemed to attune the performers of earth with the Heavenly choir. It was a boy that beat the drum to cheer the heart of America's soldier as he bared his breast to the bullets of the human carnage of '61 and '65, and of later wars in Cuba and the Philippines. It was the boys who answered Lincoln's call and McKinley's entreaty that gave us victory and made us the greatest Nation on earth. It was the Kansas boy that followed your gallant Funston in the face of a storm of shot and shell and made the Twentieth Kansas regiment renowned in history and made Kansas the synonym of bravery wherever the English tongue is spoken.

PLYMOUTH ROCKS.

BARRED ROCK EGGS—\$1 per 15, \$5 per hundred. Mrs. R. L. Parker, Lincoln, Kans.

BARRED PLYMOUTH ROCKS EXCLUSIVELY—Eggs \$1 per 15, \$1.50 per 30, \$4 per 100. T. B. Wilson, Route 7, Osage City, Kans.

MY BARRED PLYMOUTH ROCKS are the Bright's Wainam's strain. Second prize cockerel Wichita, Kans. 1907. Three grand yards. Cockerel and pullet mating; scores up to 98. Eggs \$1.50 per 15, \$7 per 100. Mrs. Jas. Pringle, Elmdale, Kans.

BUFF ROCKS EXCLUSIVELY—Farm range. Eggs, \$4 per 100; \$2.50 for 50, and 75 cents for 15. Mrs. W. Lovelace, Muscotah, Kans.

BARRED PLYMOUTH ROCKS as good as the best. Eggs 60 cents for 15. Write D. N. Hill, Route 8, Lyons, Kans.

FOR SALE—Pure-bred B. P. Rock eggs. 75 cents for 15 or \$3.50 per hundred. Hillcrest Fruit and Poultry Farm. Address A. C. Merritt, North Topeka, Route 4; Ind. Phone 4851.

Barred Plymouth Rocks Exclusively.—Superior Winter-laying strain, noted for size and quality. Eighteen years careful breeding. Eggs 1 per 15; \$1.75 per 30. E. J. Evans, Route 4, Fort Scott, Kans.

50 WHITE PLYMOUTH ROCK EGGS FOR \$3.—From prize-winning pens, line bred, large size and pure white. Also one M. B. gobbler for sale. I pay the express charges. J. C. Bostwick, Hoyt Kans.

BUFF ROCK EGGS—From good scoring birds. \$1 per 15; \$5 per 100. Mrs. Jno. Bell, Ackerland, Kans.

BARRED ROCK EGGS—\$5 per hundred. Mrs. B. A. Galbraith, White City, Kans.

INCUBATOR EGGS from prize-winning White Rocks and White Wyandottes at \$5 per 100. W. L. Bates, Topeka, Kans.

175 CHOICE BARRED AND WHITE ROCKS—Hawkins and Bradley strains. Cockerels \$2 up, pullets \$1 up; eggs \$2 for 15, \$5 for 45. Chris Bearman, Route 9, Ottawa, Kans.

BUFF ROCKS—High scoring, vigorous, farm raised, bred for size and laying qualities. Eggs \$1 to \$2.50 per 15, \$5 per 100 circular free. Sunny Slope Poultry Farm, Box 406, Effingham, Kans.

BARRED ROCKS my specialty; a fine lot of cockerels from prize winners for sale reasonable. Peter Reber, Neosho Rapids, Kans.

College Hill Barred Rock and Scotch Collie Farm.

Many first prize winners in Kansas and Oklahoma. 12 females scoring 91 to 94 1/2 by McClave, Emery & Helmlock. Hens and eggs to order. Pedigreed Collies from imported prize winners. Fine young stock for sale. Mrs. J. T. Woodford & Son, 1600 E. Central, Wichita, Kans.

WHITE PLYMOUTH ROCKS.

Largest and whitest in the west. Line bred for heavy egg production; Kansas State Show '07 I won 1st cockerel, 2d pen, 3d, 4th hen; Anthony, '06 1st cockerel 96 1/2, 1st pen 91 1/2, 1st hen 95 1/2, 1st pullet 95 1/2. Write for egg prices. Chas. C. Fair, Sharon, Kans.

LINDAMOOD'S BARRED ROCKS will surely please you. High scoring prize-winners. Pens mated now. Send your orders early. No eggs after May 15. (From pens \$2 per 15, from stock \$3 per 100. Send for circular. Long distance phone Walton.—C. C. Lindamood, Walton, Kans.

BARRED PLYMOUTH ROCKS EXCLUSIVELY (Bradley Strain.)

Pullet-mating pen headed by a 98 1/2 point cockerel. Cockerel-mating headed by a 98 point cock. The females score from 90 to 98 1/2. Barring extra strong. Eggs \$1.50 per 15, \$7.50 per 100. Mrs. Chas. Osborn, Eureka, Kans.

BARRED PLYMOUTH ROCKS EXCLUSIVELY EGGS \$3 per 15 \$5 per 30 Get the Best Start Right S. T. Divinia, R. 2, St. Joseph, Mo.

EGGS! EGGS!

I feel confident from the Steel Blue Barred Plymouth Rocks will be produced some prize-winning chicks for you, whether you wish them for show birds or on the farm. Let me have your order and the chicks will speak for themselves. It costs no more to raise fine birds than inferior ones, and the extra small expense of starting should not be considered for the results and satisfaction you would get out of this Famous Strain would overcome all. Try them. Write for catalogue, it's free. JOE E. MOORE, originator and breeder of the renowned Steel Blue Barred Plymouth Rocks, Mexico, Mo.

White Plymouth Rocks EXCLUSIVELY.

Good for Eggs. Good to Eat and Good to look at W. P. Rocks hold the record for egg-laying over every other variety of fowls; eight pullets averaging 229 eggs each in one year. I have bred them exclusively for twelve years and have them scoring 94 to 96 1/2, and as good as can be found anywhere. Eggs only \$2 per 15; \$5 per 45, and I prepay expressage to any express office in the United States. Yards at residence adjoining Washburn College. Address THOMAS OWEN, Sta. 2, Topeka, Kans.

BUFF ORPINGTONS.

S. B. BUFF ORPINGTONS—Cook strain. Eggs, 15 for \$1.50. Fred and Eddie Stark, R. 7, Abilene, Kans.

S. C. BUFF ORPINGTONS—Eggs from the Cup-winners at the biggest show in the country at a low price. Write for prices Frank Hill, Sabetha, Kans.

S. C. BUFF ORPINGTONS EXCLUSIVELY—Eggs \$1.50 per 15. Mrs. Duncan, Valley Falls, Kans.

BUFF ORPINGTONS AND BUFF LEGHORNS—Won first pen State Show; catalog free. W. H. Maxwell, 1924 McVicar Ave., Topeka, Kans.

CHOICE Buff Orpington and B. P. Rock cockerels, Collie pups and bred bitches. Send for circular. W. B. Williams, Stella, Nebr.

BUFF ORPINGTONS EXCLUSIVELY—Eggs from prize-winners \$2 a sitting. Mrs. A. Wesser-Davis, Douglass, Kans.

S. C. BUFF ORPINGTON EGGS—From pens headed by high-scoring cockerels; \$1.50 per fifteen; \$2.50 per thirty, \$3.75 per fifty. Range eggs 50 cents per fifteen, \$3 per hundred. Nellie E. Lyons, Berryton, Kans.

S. C. Buff Orpingtons EXCLUSIVELY.

Winners at four shows. Bred for winter layers. Eggs for sale. Send for free circular and show winnings. B. D. Hungerford, Canton, Kans.

The Poultry Yard

CONDUCTED BY THOMAS OWEN.

Poultry Pointers.

A correspondent inquires as to the best and cheapest way of shipping eggs for hatching purposes. The writer uses common splint baskets, usually seen in grocery stores, for shipping eggs. He takes a handful of excelsior and wraps it around the egg, making a wad as big as a man's fist. He packs these wads tightly in the basket, and the eggs reach their destination in good condition. He rarely has any complaints of breakage. In cold weather he wraps tissue paper around the eggs before wrapping in excelsior. This is a precaution against the eggs being chilled. But as the weather gets warmer he dispenses with the paper and uses only the excelsior. He knows this is a cheaper method than buying patent egg cases, and he believes it to be a safer one also. Expressmen are a little more careful with baskets, and as they have handles on them, other bundles can not be piled upon them, as is done with egg cases or boxes. He covers the top of the basket with muslin, sewing it down tightly upon the excelsior.

On setting a hen, don't put the eggs in a deep box, where the hen will be forced to jump down on the eggs to get at them, for she will be pretty apt to break some of them. Should any of the eggs be broken at any time the balance of them should be washed as soon as discovered, for a smeared egg will not hatch.

The proper dimensions for a box in which to set a sitting hen are about twelve inches square. If smaller it is apt to crowd the hen and the eggs are liable to be broken; if larger the eggs will scatter and will not all be incubated. The box should be placed on its side, so that the hen may have easy access to it.

It is undoubtedly true that the earliest hatched chickens are the hardest and thrive the best. I. K. Felch, an authority on such matters says that the most vigorous and healthy chicks come from the forty eggs a pullet produces after the first eight or ten she lays, and from the first forty a hen lays after getting through the molt.

Eggs that are saved for hatching should be turned every day and should be set as soon after being laid as possible, as the germ gets weaker and weaker every day. We would not set any after they are three weeks old, though possibly some might hatch if they were older, but the chicks are apt to be frail.

An egg that has been subjected to a temperature of less than forty degrees for any length of time is of no value in incubation. During the cold days of spring the eggs, intended for hatching should be gathered several times a day, and kept at a temperature of from 45° to 50°.

Before condemning the incubator because it does not hatch every egg, remember that the sitting hen, on an average, only hatches about 50 or 60 per cent of the eggs placed under her. We doubt if the hens, the country over, average more than 50 per cent. Be sure that the room in which the incubator is placed is perfectly dry and has a good circulation of air. Pure air is essential to a successful hatch. Unless there is sufficient ventilation, the air becomes foul very soon, and a successful hatch is out of the question. Ventilate intelligently, however, and see that no direct drafts are allowed to strike the machine.

Do not inbreed unless you can do so systematically. Indiscriminate inbreeding is simply throwing the door open and inviting failure to enter. It is possible to inbreed and preserve the vitality and stamina of the flock, but

WYANDOTTES.

WHITE WYANDOTTES—Prize-winners. Catalogue free. Ginetta & Ginetta, Florence, Kans.

WHITE WYANDOTTES ONLY—15 eggs \$1. H. F. Brueggemann, R. 2, Herington, Kans.

WYANDOTTES—Pure white. Young stock at \$1 each. L. E. Brown, Norton, Kans.

BROWN'S WHITE WYANDOTTES—Ahead of everything; stock for sale; eggs in season. I have the English Fox Terrier dogs. Write me for prices and particulars. J. H. Brown, Clay Center, Kans.

WHITE WYANDOTTES—Pen No. 1, score 94 to 96 1/2 by Atherton. Eggs \$2 per 15. 100 others bred to lay high scoring eggs \$1 per 15; \$4 per 100. J. L. Moore, Eureka, Kans.

WHITE WYANDOTTES—White P. Rocks and Rose C. B. Minorcas. Wyandottes and W. P. Rock eggs, 15 for \$1; Minorca eggs, 15 for \$1.50. Eggs for hatching from high-class poultry. R. F. Meek, Hutchinson, Kans.

PARTRIDGE WYANDOTTES—Eggs for sale, 1 sitting 15 for \$2, 2 sittings \$3.50, and \$4.50 per 50. From best strains in Kansas. E. Holtzschue, Sabetha, Kans.

WHITE WYANDOTTE EGGS from choice matings; \$1.50 per fifteen. S. W. Artz, Larned, Kans.

WHITE WYANDOTTES—Good stock, splendid layers; eggs \$1 per 15. L. E. Brown, Norton, Kans.

Pure-Bred White Wyandotte cockerels, unscored, \$1 each. Emma Coppedge, Norcatur, Kans.

WHITE AND S. L. WYANDOTTES, and White Holland Turkeys. Only male stock for sale. Good birds at reasonable prices. Write R. Boyd Wallace, Stafford, Kans.

White Wyandotte Eggs per sitting \$1, or 100 for \$5. Mrs. E. F. Ney, Bonner Springs, Kans.

WHITE WYANDOTTE eggs \$1.50 for 15 from choice pens, \$6 per 100 from selected free range stock. Indian Runner duck eggs \$1.50 for 11; Mammoth White Holland turkey eggs \$1.50 for 9; White African guinea eggs \$1.50 for 17; a few pairs of guinea yet for sale. Order now. Mrs. L. D. Arnold, Enterprise, Kans.

The Great Winter Laying Strain

of Silver and White Wyandottes and Buff Plymouth Rocks. Eggs \$1.50 per 15. Address D. A. Chacey, Leavenworth, Kans.

Hammer's White Wyandottes

Eggs from first pen \$2 per 15; from second pen \$1.50; from stock at large \$1 per 15; \$5 per 100. My strain is noted for eggs.

Lewis A. Hammer, Clearwater, Kans.

Silver Laced Wyandottes

We pay all express charges. Eggs from stock scoring from 90 to 98 points by Rhodes; \$2 for sitting of fifteen; choice farm range \$5 per hundred. Good hatch guaranteed or eggs replaced.

A. E. Kroth, Soldier, Kans.

BLACK LANGSHANS.

BLACK LANGSHAN EGGS from fine stock; \$1.50 for 15, or \$7 per 100. Mrs. Geo. W. King, R. 1, Solomon, Kans.

BLACK LANGSHAN EGGS—\$1.50 per 15. From World's Fair winning strain. Mrs. E. Forward, Bayneville, Kans.

BLACK LANGSHANS

Of best breeding. Eggs for sale at \$1.50 per 15 or \$2.50 per 30. Mrs. E. S. Myers, Box 174, Chanute, Kans.

BLACK LANGSHANS

My birds are prize-winners. Choice cockerels and pullets for sale; eggs \$1.50 and \$2. Satisfaction guaranteed. W. M. Tipton, Route 5, Wellington, Kans.

BRAHMAS.

LIGHT BRAHMAS. Prize winners—two firsts, two seconds at State Poultry Show 1907. Cockerels \$2, eggs \$1.50. John Lichte, Route 1, Oatville, Kans.

Light Brahma Chickens

Choice pure bred cockerels for sale. Write or call on Chas. Foster & Son, Eldorado, Kas., Route 4

TURKEYS.

FOR SALE—White Holland toms \$3.50, White Wyandotte eggs \$1 per sitting, \$5 per hundred. Mrs. E. F. Ney, Bonner Springs, Kansas.

WHITE HOLLAND TURKEY EGGS—\$1.50 per nine, \$4.50 per thirty. Inquiries promptly answered. T. J. Sweeney, St. Marys, Kans.

FOR SALE—Bronze turkeys; July hatch; all by a fine Kentucky tom. Price \$5. Address Mrs. Fred Cowley, Hallowell, Kans.

Markers White Plymouth Rocks

Our stock won more premiums and specials at Hutchinson State Fair, Great Bend, Salina, Wichita Show and Nickerson than any breeder in the state. What better proof is there that they are

"Better Than Any."

Eggs shipped anywhere in the United States. We guarantee fertility. Write what you want; we have We More Than Please Marker Bros., Great Bend, Kans. Satisfaction Guaranteed

The Talbott Poultry Farm

Breeders of the best in the world. Strain of Buff, Brown and White Leghorns, Barred Rocks and White Wyandottes. My birds have won at Chicago, Galesburg, Moline, Illinois, Freeport, Hebron, Neb. Poultry Show of Nebraska, and they will win for you. 500 old birds for sale at \$1.50 each; 1,000 youngsters at \$1.00 and up. W. R. TALBOTT, Prop. Hebron, Neb.

LEGHORNS.

ROSE COMB BROWN LEGHORN EGGS—From stock scored to 93 by Rhodes. \$1 per 15, \$5 per 100. Exhibition pen cockerel bred by per fifteen eggs. Frank Dunable, Clay Center, Kans.

ROSE COMB BROWN LEGHORNS EXCLUSIVELY—Farm raised. Eggs \$1 per sitting of 15, per fifty \$2, per hundred \$3.50. Prompt shipments made. P. H. Mahon, Route 3, Clyde, Cloud Co., Kans.

S. C. BROWN LEGHORN EGGS \$5 per hundred from birds as good as show birds but on free range. Mrs. W. J. Grist, Osawatie, Kans.

S. C. BROWN LEGHORN EGGS—From prize winning stock at state shows at Wichita and Topeka. Price \$2 for 15. P. A. Peterson, 83 Cony St., Topeka, Kans.

STANDARD-BRED S. C. B. LEGHORNS—Champion layers. Eggs and cockerels. Mrs. D. M. Evans, Edgerton, Kans.

THEY LAY; THEY PAY—S. C. White Leghorns. My pen is of the finest in the west, headed by Van Natta's greatest World's Fair winner, scored \$1.25 for fifteen, \$5 per hundred. E. Boltwood, R. 1, Ottawa, Kans.

S. C. WHITE LEGHORNS. Stock and eggs for sale. Eggs \$1 per 15. Prize winning egg stock. Leghorn egg man. W. C. Watt, Walton, Kans.

SINGLE COMB BROWN LEGHORNS—Best laying strain in the world. Eggs \$1 per sitting, 15 sitings \$2.50, \$5 per 100. Everett Hayes, Hiawatha, Mo.

PURE SINGLE COMB BROWN LEGHORNS—Eggs \$1 for 15, \$5 for 100. Jos. Caudwell, Wakefield, Kans., successor to F. F. Flower.

FOR SALE—Single Comb White Leghorn cockerels. Wyckoff laying strain. Price, 75 cents each. \$1. Henry Martin, Newton, Kans.

ROSE COMB BROWN LEGHORNS EGGS, \$1 per 15, \$5 for \$2.50, 100 for \$4. Mrs. John Holshay, Medina, Kans.

STANDARD-BRED SINGLE-COMB BROWN LEGHORNS—Headed by first prize pen Chicago show 1905 and took six first prizes and first pen Newton 1904. Eggs \$3 for 15. S. Perkins, 801 First street, Newton, Kans.

SINGLE-COMB WHITE LEGHORN cockerels \$1 each; two or more 90 cents each. Fine white pure, thoroughbred birds. Also a few Barred Plymouth Rock, barred to the skin—fine, pure and vigorous; hens, cocks and pullets, \$1 each; two or more \$2 each. All of our customers are very pleased. We will make reductions on large lots. Meadow Poultry Farm, Centerville, Illinois.

FOR SALE—Exhibition S. C. Black Minorca cockerels, \$2. I guarantee them. Address George Kern, 617 Osage Street, Leavenworth, Kans.

STOCK AND EGGS.

Silver Sp. Hamburgs: 1 cockerel, 1, 2, 3, 4 pullets, pen, at great Wichita show. S. C. W. and Brown Leghorns; Black Minorcas; 16 eggs Blue Ribbon pen \$5. 2d best \$2; utility pens headed by high scoring males \$1.00; M. Bronze turkey eggs \$2 per 9, \$50 each. Vira Bailey, Kinsley, Kans.

Buff Leghorns

Pure-bred eggs \$1.25 per 15, \$3.25 per 100. L. J. Reed, R. 3, Wakefield, Kans.

Oberndorf's S. C. W. Leghorns

Won 15 prizes and silver cup at Kansas City, Mo. Poultry Show 1907. Birds and eggs for sale. Mrs. B. P. Rock eggs, best strains. Send your orders to Eleanor Fruit and Poultry Farm, Centralia, Mo. A. Oberndorf, Proprietor.

Galva Poultry Yards

R. C. White Leghorns and White Wyandottes 30 prizes in three shows. Eggs \$1 per sitting. J. Ditch, Galva, Kans.

H. W. McMANNIS

LINCOLN KANSAS. Breeder of Thoroughbred Poultry. R. C. and White Leghorns. Columbian and White Wyandottes. R. C. Rhode Island Reds, and Buff Orpingtons. Prices Reasonable.

RHODE ISLAND REDS.

RHODE ISLAND REDS—Cockerels, S. C. R. I. Reds from prize winners. Red to the skin. Eggs in season. Good Hope Fruit & Poultry Farm, Troy, Mo.

ONE DOLLAR buys 15 eggs of either Rose Comb R. I. Reds or Barred Rocks from prize-winning stock at the college show. Mrs. A. J. Nicholson, Manhattan, Kans.

S. C. RHODE ISLAND REDS—Won at State Show, 1907, 1st, 2d, 4th. Eggs \$1.50 per 15, \$5 per 100. Mrs. D. A. Sheaks, Walton, Kans.

Rose Comb Rhode Island Red eggs for sale. Circular free. G. D. Willems, Inman, Kans.

R. C. R. I. Reds—Pure-bred cockerels for sale each. A. L. Scott, Route 1, Larned, Kans.

GOLDEN RULE FARM.

R. C. Rhode Island Reds. Won fourteen prizes at our Reds at the two great Kansas State Poultry Shows January 1905-7. No stock for sale. Write for hatching. Egg circular free. A. D. Williams, Minneola, Kans., (formerly of Inman, Kans.)

FOR SALE—Rose Comb Rhode Island Red cockerels. High grade Red Polled bull calves. Poulton, Medora, Kans.

REAL ESTATE

REAL ESTATE

REAL ESTATE

REAL ESTATE

Money to Loan

On Eastern Kansas Real Estate

Semi-annual, or annual interest, five, seven, or ten years time, with privilege of payments at any interest period.

No Delay in Furnishing Money

Merriam Mortgage Company Columbian Bldg., Topeka, Kansas

FOR SALE OR TRADE, for real estate—A 4-year-old black jack; white points, 15 hands high, sound, sure, fine individual. Owing to stroke of paralysis am unable to care for stock. A. E. Cooper, Halstead, Kans.

WANTED—An active, hustling farmer in every community to see our Canadian lands on commission. Address G. C. Shedd, Room C, Gumbel Bldg., Kansas City, Mo.

FOR SALE BY OWNER—Kansas farm of 160 acres, unincumbered, located in Phillips county, 5 miles south of Republican City, Neb.; 50 acres under cultivation, balance hay land. Price \$4000. Easy terms. Address A. B. Heath, care Kansas Farmer, Topeka, Kans.

A SPLENDID BARGAIN

80 acre farm, 7 1/2 miles from county seat of Wilson County. 40 acres in cultivation, 25 acres English blue grass. Balance pasture, no waste land. Good, fair three room house, barn almost new. Large enough for 4 head of horses. Corn crib and hay mow. Land well watered with wells and branch. This is a splendid piece of valley land; Nicely located and if bought at once can be sold for \$25,000. Can not give possession until March 1, 1902 but can assign the lease as it is rented for cash. It is certainly a bargain and will not stay long. C. R. Cantrell, Fredonia, Kans.

FOR EXCHANGE—Choice alfalfa and wheat farms for merchandise. Clydesdale stallion, Short-horn, Galloway and Jersey cattle, Duroc-Jersey, Poland-China and J. C. hogs and Dorset sheep for Clydesdale and Percheron mares and Hereford cattle. We breed 40 varieties of poultry and pet stock. We will exchange with you. Are now booking orders for eggs. Catalogue 10c. Stock for sale. A. Madson & Sons, B. 1, Atwood, Kans.

HERE IS A GOOD CHANCE to get a cheap home. 480 acres in Trego Co., Kans., for \$4400; \$2400 cash, balance on time; has 8-room stone house, large stone hen house, stable for 10 horses, shed for 50 cattle, granary, buggy shed, windmill and tank and an endless amount of water, a lot of fencing, title good, school house on land, 2 miles to church, 40 acres in wheat, 120 acres bottom land suitable for alfalfa. Write or come. Otto Young, Udica, Kans.

LYON COUNTY FARM—75 acres, 60 cultivated, balance pasture. Black limestone soil, good apple orchard and other fruit. Good 8-room house, barn and cattle sheds. 9 miles to Emporia, 1/2 mile to school. Price \$3,150. Hurley & Jennings, Emporia, Kans.

FOR CHEAP LAND AND HOMESTEADS write to Chas. P. Knight of Burlington, Col. He has land priced right and has a cinch on several good homesteads close to town. Will not stand long. Land from \$5 per acre up. Write today or come at once. Chas. P. Knight, Burlington, Colo.

FOR SALE—350 acre stock farm in Lyon County. Handy to station. J. C. Hume, owner, route 3, Council Grove, Kans.

WE HAVE for sale one of the best ranch and farm propositions in Kansas. Write us for particulars. We are in the big four country. Corn, cattle, hogs and alfalfa. J. C. Hoyt, Eldorado, Kans.

WRITE W. J. O'CONNOR, Eureka Springs, Ark., for fruit and mineral lands in Northwest Arkansas.

BUY LAND OF OWNER—Save commission. Stock and Poultry farm for sale on Hickory Creek, Butler County, Kans. Address Benj. Mayfield, Latham, Kans.

MITCHELL COUNTY, KANSAS FARMS—Also thousands of acres of the choicest lands in the western country. Soil perfect and smooth, at \$6.00 and up; 20 years resident on the ground. Special opportunity at this time in Books county, on line of new railroad now being built. A choice creek bottom farm, near town, at \$24.00. Write me your wants; I can produce the goods and at best prices. W. P. Curtis, Beloit, Kansas.

FOR SALE—Fruit lands, farms and timber. Stock do well in this section. German truck farmers can make big money. I can loan your money on good security. Campbell, P. O. Box 283, Van Buren, Ark.

FOR SALE—Dairy Farm in Loudon County, Virginia. Between three and four hundred acres. Less than one and one-half hours' ride from Washington. Good railroad 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 land and whole farm can be cultivated. Excellent opportunity to purchase first-class well-equipped dairy farm. M. V. Richards, Land & Industrial Agent, Washington, D. C.

FOR SALE AND EXCHANGE Merchandise and City Property, Kansas and Texas Lands. If you want anything in this line write us. Quisenberry & Carlson, Marlon, Kans.

BRICK HOTEL—Centrally located, 28 rooms, furnished throughout, in good town in gas belt. Good opening. Price \$6,000. A. R. Ohmart, Augusta, Kans.

A FINE PAWNEE VALLEY RANCH

A square section of the best Pawnee Valley land, 1/2 mile from railroad station and good town of 300 inhabitants; all fenced and cross fenced, 250 acres in wheat, 100 acres in spring crop, one-half of all crops go to purchaser delivered at elevator. Good house, barns, with room for 200 head of stock, granaries, good wells, windmills, tanks, etc., rural telephone and free mail delivery. This is all the best of alfalfa land. Price \$35 per acre; one-half cash, the remainder to run at 6 per cent interest. Call on or write

Frizell & Ely,

LARNED, KANSAS

Choice Farms in Dickinson County, Kansas

Thirty-five years' residence in county. References: Any bank or business man in Abilene.

W. D. Nichols, Agt., Abilene, Kans.

Jewell County

Morris & Woolsey
Randall, Kansas
Quarter section of good land at \$20 per acre; it is a bargain. Write for full particulars.

SOLOMON VALLEY FARMS

We have some great values here that will pay you to investigate. Sections of unimproved land from \$500 to \$10,000. Improved upland \$20 to \$40 per acre. A. E. ROBINSON LAND CO., Minneapolis, Kans.

Irrigated Lands

For Sale, choice irrigated lands, all planted with alfalfa, \$25 an acre, on installment, Kern County, California, the finest agricultural country in the state. For particulars write, California Buyers Union, Inc., 916 Broadway, Oakland Cal.

HOME IN MANHATTAN

Have full list of town, suburban and farm properties. Buy here and live with your children while in college. We can sell your farm or get you a trade if desired. Our references, First National Bank. Write today. Manhattan Realty Co., Manhattan, Kans.

A Farm Home With City Advantages

160 acres river bottom land; 120 acres in cultivation, 40 acres in grass. 80 acres fine alfalfa; fenced and cross fenced, watered by wells and running water, some timber along stream, good orchard, has good 9-room residence, good barn, corn crib and granaries. This farm is located only 80 rods from a town in this county, with two railroads, natural gas, two banks, elevators, stores of all description, and only 8 miles from Wichita, with trains between the two points daily hour in the day; only 7 miles from stock yards and packing houses in Wichita. This is a decided bargain at \$10,500. THE NELSON REAL ESTATE CO., 137 N. Main, WICHITA, KANS.

TEXAS, RICE AND GARDEN LANDS.

In the Gulf Coast country—Artesian belt. Finest and most productive lands in the country. Excursions semi-monthly. \$20 round trip. See me or write for particulars.

DAVID L. LAKIN, Agt. Fidelity Immigration Co., 113 W. 6th, Topeka, Kans.

Arthur H. Goddard

OF ALTON, OSBORNE COUNTY, KANSAS,

offers the best proposition for homes that can be found anywhere. Write him for list and map.

McPherson County Farm

160 acres good level wheat, corn and alfalfa land, 125 acres in cultivation. Pasture, meadow, orchard, alfalfa and wheat, 7 room house, barn, good well and wind-mill. Price reasonable. Very desirable. Sold to settle an estate. Call on or address

J. K. Bremyer, McPherson, Kans.

Homes in Eastern Kansas

Prices \$25 to \$50 per acre. Corn, wheat, alfalfa, timothy, clover and blue grass. Will pay ten per cent on investment. 160 acres five miles from county seat. 5-room house, fair, repair, stable; lies fine, no rough land; price \$40 per acre. Owner will take rental property to amount of \$2,000 on exchange; must be worth the money. Write. I have all kinds of bargains. Eighty miles from Kansas City. W. K. Shaw & F. B. Graham, Garnett, Kan.

Grain and Dairy Farms

Around Topeka. Also Fruit farms and Stock farms for cattle, hogs and horses. Raise corn, wheat, oats, alfalfa, tame grasses. Unreasonably cheap; too cheap to last. Write for particulars.

GEO. M. NOBLE & CO.

Real Estate and Loans.

OPPOSITE POSTOFFICE. TOPEKA, KANS.

My Plan

will sell any farm on earth. Send description and price. Customers waiting. If you want to buy a farm in the United States or Canada, tell me what and where and receive my "Locator" Magazine free. No commission to pay.

H. H. Harsha, Masonic Temple, Chicago

KANSAS HOMES CHEAP

80 acres—40 cultivated; 1 1/2 story house, stable, poultry house, smoke house; well, trees; price \$1500. 100 acres—110 cultivated; 4-room house; stable; fruit and shade trees; \$4000. 160 acres, some bottom, timber, good improvements, close to school; \$4800. 220 acres—100 cultivated; fair little improvements; \$6000. 640 acres—160 cultivated; new house; 1 1/2 mile of running water; price \$15 per acre. We have all kinds and sizes and would be pleased to send lists. Write to Minneapolis, Florence or Salina, Kansas, for lists.

GARRISON & STUDEBAKER.

Some Alfalfa Land

in Trego County, Kansas for \$10 an acre. This is a snap and will not last. Be quick! STEVENS & RUBY, Stockton, Kans.

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

FOR SALE Farms—Bargains; 500 farms, stock ranches. Kansas or Missouri. Before you buy, sell or exchange, write for my free lists. F. H. Humphrey, Fort Scott, Mo.

We Are Sending Free

Pictures and descriptions of the Tree that grows Muskmelons, the Plum Tree that has fruit and no leaves, and other semi-tropical fruits. Also information about twelve million acres of rich, highly productive low cost farm, timber and grazing lands in the state of Sinaloa, Mexico. Address

SINALOA LAND COMPANY, Merchants Trust Building Department No. 1, Los Angeles, California

Norton County Alfalfa and Corn Farms

We sell Norton County lands where wheat, corn and alfalfa grow in abundance. Write us for list of farms and full particulars.

LOWE & BOWERS, Almena, Kansas

ALFALFA RANCH

480 acre ranch in Scott Co., Kansas; six miles from Hesley, about 100 acres creek bottom land, 3 miles running water, stone house, barn and cattle sheds, good timber. An excellent alfalfa and stock ranch. Price, \$4,000. Apply to

Albert E. King, McPherson, Kans.

Watch Tacoma Grow!

Population, 1900, 37,714

Population, 1906, 55,000

Leading industrial center of Pacific Northwest. Five additional transcontinental railroads building to Tacoma. Chief distributing point for leading products of Washington; wheat, lumber, coal. Send stamps for descriptive literature to Secretary Chamber of Commerce and Board of Trade, Tacoma, Washington.

HENRY W. ROBY, M. D. SURGEON 730 Kansas Avenue, Topeka, Kansas



We Will Pay Men \$85 Per Month to travel, collect names, advertise and give away samples. Expenses advanced. Write today. H. C. Elder Company, Chicago.

The Blossom House

Kansas City, Mo.

Opposite Union Depot. Everything first class. Cafe in connection. Cars for the Stock Yards, up town business and residence parts of the city and for Kansas City, Kansas, pass the door. Solid comfort at moderate prices. A trial will please you.

How Is Your Heart?

Is your pulse weak, too slow, too fast, or does it skip a beat? Do you have shortness of breath, weak or hungry spells, fainting, smothering or choking spells, palpitation, fluttering, pains around the heart, in side and shoulder; or hurt when lying on left side?

If you have any of these symptoms your heart is weak or diseased, and cannot get better without assistance.

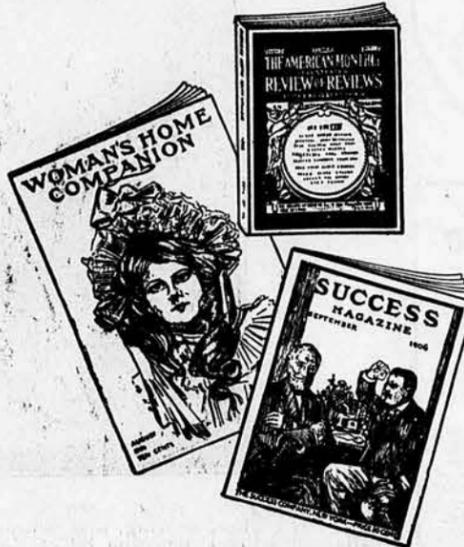
Dr. Miles' Heart Cure strengthens weak hearts, and rarely ever fails to cure heart disease. Try it, and see how quickly you will find relief.

"About January 1st, 1902, I took down with weakness and dropsy, and gradually grew worse. I was told by my family physician that my case was hopeless. My neighbors and family had given me up to die. My limbs and body were swollen to a third larger than normal size and water had collected around my heart. For at least three months I had to sit propped up in bed to sleep from smothering. I sent for five bottles of Dr. Miles' Heart Cure, and by the time I had taken them all, I was entirely cured. I feel better than I have for twenty years, and I am able to do any kind of work on my farm. My attending physician told me that if it hadn't been for Dr. Miles' Heart Cure I would now be in my grave." L. T. CURD, Wilmore, Ky.

Dr. Miles' Heart Cure is sold by your druggist, who will guarantee that the first bottle will benefit. If it fails he will refund your money. Miles Medical Co., Elkhart, Ind.

When writing advertisers please mention this paper.

The Combination of the Year



The Kansas Farmer, one year \$1.00
The Review of Reviews, one year.... 3.00
Women's Home Companion, one year... 1.00
Success Magazine, one year 1.00
Regular Price..... \$6.00

We will send this grand combination of papers, all, one year for only.. \$3.75

Address—
The Kansas Farmer Co., TOPEKA, KANS.

Milk-Fed Chickens.

(Continued from page 381.)

chicken-house is whitewashed. It must be kept free from odor and dust. Perfect sanitary conditions are the vital principle.

"The chickens are placed in long coops and packed so tightly that they can only find room to move comfortably about. But they can not run about. They are fed from four to six times a day, according to conditions. The food consists of a porridge, of which cornmeal and milk form the basic parts.

"The machine that is used to feed them is built on the lines of a sausage-stuffer. A rubber tube extends from the receptacle. The feeder takes each chicken from the coop, places the rubber tube in its bill, and then pumps it full of food.

"Of course, every feeding station requires constant watching. Men go constantly up and down the line of coops and watch the fowls. Whenever a sleepy chicken that does not appear to thrive is spotted, it is immediately taken from the coop.

"At the stations where we have refrigerators we kill the chickens for market. In most cases we ship to our packing plant. Here the chickens are dressed and assorted, and packed ready for shipment.

"The only difference between the chickens marketed in this country and those we ship to London is the method of packing. English people insist that chicken be 'squatted,' that is, its legs must be directly beneath its body, as though the fowl were squatting on the ground. The American housewife cares nothing about that. All she wants is quality, and she pays little attention to the way the chicken's legs are arranged.

"In this country most of these scientifically fed chickens are bought by the better class hotels, clubs, and wealthier people, who can afford to pay a higher price for such stock. Milk-fed stock forms only a small percentage of the chickens annually eaten in the United States. Probably four-fifths of the supply still comes from the farm barnyard.

"Ducks are raised on scientific lines. They are kept within an inclosure, limited in space, but food troughs amply filled, prevent them from roaming about in search of food, and they fatten rapidly."

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 animal, 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 instructor's postoffice, should be signed with full name and should be addressed to the Veterinary Department of The Kansas Farmer, Topeka, Kansas, or to Dr. C. L. Barnes, Veterinary Department, Kansas State Agricultural College, Manhattan, Kansas.

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."

Hogs With Indigestion.—I had 70 good, thrifty fall pigs that came about October 1. They have dwindled away until I now have only 30, and several of these are sick (never saw but one recover). Symptoms are, they commence to grow thin but in first stages as well as ever. They finally lose their appetite, grow weak, and most of them thump some, although some do not. They usually die in about two weeks. They have been on good rye pasture ever since born, and have had but small feeds and corn and good shorts chops twice each day all winter. The whole bunch coughs considerably but no worse after getting sick. I would be glad to hear from you in regard to same. D. W. M.

Answer.—From the symptoms you give of your hogs, I think they are suffering from indigestion. I would recommend that you feed no grain, but instead give them sloppy bran mash which you will add the following recipe: Two ounces pulverized nuxomica; 1 pound of sulfur; 1/2 pound salt; 4 ounces sodium hyposulfite, then

mix with 15 pounds of oil-meal and give a teaspoonful to every 200 pounds of hog. If you can not get them to eat this medicine you can put some in water and drench them with it.

Cow Gives Bloody Milk.—I have a milch cow that will be 4 years old in the spring. She has been giving bloody milk since last March, but only from one teat. I find there is a bunch inside of teat about one-half inch from where teat joins udder. She has had two calves but did not give bloody milk with first calf. Sometimes there will be large clots come out of teat when beginning to milk. Do you think there is anything I could do to cure her? I am satisfied that blood came from the bunch in teat. Cow gives about three gallons of milk daily and will not calve until next fall. I would not like to dry her if I can help it. I would be very glad to hear from you in regard to this. N. B.

Answer.—Secure from your druggist 6 ounces of Phytolacco de Candra. Rub this extract on your cow's udder twice daily and I think it will remove the trouble which you mention in your letter of recent date.

Scouring Pigs.—I have two pigs that are scouring badly. They have been weaned about ten days. They began scouring about three weeks ago, and are gradually wasting away. Can you give a cure for this disease, also a preventive? I have had pigs affected with it before. It seldom attacks more than one or two out of a litter. Madison, Kans. G. B.

Answer.—I think that you should give your pigs that are scouring tincture of opium and raw linseed-oil. Put 2 ounces of tincture of opium in 6 ounces of raw linseed-oil. Of this mixture give 1 ounce to each pig that is scouring. Repeat the dose if necessary.

Ailing Colt.—I would like to ask your advise in regard to an ailing colt that I have. It is a 3-year-old roan horse colt that was very crooked when foaled, both in front and hind legs, but when 2 years old was straight and seemed all right. I broke and worked him last summer and fall, and stopped work with him in good condition and apparently all right. On November 28 he got his left foreleg over the halter strap and manger top. I found him next morning wet with sweat and suffering great pain. Upon examining the leg found the hair off from fetlock and leg bruised. I used saltpeter water as a wash and then vaseline salve. He was apparently doing all right for about five days, when the leg began to swell at knee and the swelling went to hoof and to elbow, and discharged a yellowish watery substance. I used vinegar and salt, warmed, with good results, but the knee where it first started can not be moved. Now he is stiff in all four legs, and the stiffness is going well into the shoulder and lower thigh. Any advice you can give me will be greatly appreciated. W. M. Cazenonia, Wis.

Answer.—Secure from your druggist 2 ounces of tincture of cantharides, 2 ounces of tincture of capsicum, 2 ounces of tincture of iodine, and compound soap liniment 1 pint. Shake well, and place one ounce in a pint of water, and apply on legs, rubbing freely. Do this twice daily, and I believe that your colt will make a rapid recovery. You had better give the animal exercise. We have no book on veterinary science that we put out by this department. C. L. BARNES.

What a Prominent Horseman Says.

Walcott, Beers & Grant, Horse and Mule Market, Kansas City, Mo.

I have used Leonard's Barb Wire Liniment for eight years. It is the best liniment I ever used. It does its work quickly and satisfactorily. No first-class barn can afford to do without it. J. C. WOLCOTT, 101 Ranch.

We endorse what Mr. Wolcott says: J. C. MILLER, State Reformatory.

We have bought it by the gallon for eight years. E. E. MARSHALL, Supt. Ex-Governor Leedy's daughter says: "It cured me of catarrh." EVA LEEDY.

Leonard's Barb Wire Liniment cures the worst barb-wire cut without leaving a scar cures heaves, colic, roup, nail wounds, galls, sore shoulders, pink eye, burns, sore throat, piles, catarrh, coughs, crop, tonsillitis, distemper, poison from corn-stalks, pneu-

CONGO ROOFING NEVER LEAK SEND FOR FREE SAMPLE Roofing troubles! End them with Congo. Leave the old roof there and just lay Congo Roofing over it. It won't cost much; it won't take long. Everybody who tries Congo likes it the first year, likes it better the second year, is proud of it the third year, and gets more enthusiastic after that the longer he waits for it to wear out. A sample is pretty good evidence. We will send you one free. Ask for it. BUCHANAN-FOSTER COMPANY, Philadelphia. 1033 Monadnock Building, San Francisco.

THE "DENNING" FENCING IS FAMOUS For its "Peerless Tie" close mesh, strength and durability. Our motto is "not how cheap but how good." Yet our prices are as low as any compared with weight. We use the best galvanized steel wire. Our hog fence is superior. Our poultry fence beats the world. Our lawn fence is ornamental. Our slat corn cribs and steel grain bins are popular. Ask your dealer, or write us for catalogue. THE DENNING WIRE & FENCE CO. Cedar Rapids, Iowa

THE SAFETY HATCH INCUBATOR Leads for 1907 because it has not been cheapened in quality. The copper hot water heating system is perfect. Simple end regulator with double brass thermostat. Double cases packed with a fibrous material filled with innumerable dead air spaces. Double clear table top packed the same as the walls. The cloth nursery tray, so nice for newly hatched chicks to rest on. Two doors, one of glass, the other solid lumber. Easy to clean safety lamp. And guaranteed perfect ventilating system. No better machine can be built at any price. Others claim the best hatches, but we get the largest averages and healthiest chicks. We pay the freight. Our 1907 catalogue tells it all. It's free. Address THE CLAY CENTER INCUBATOR CO., CLAY CENTER, KANSAS.

Whitmore Business College St. Joseph's Best School. Equipment unsurpassed. Endorsed by the prominent business and professional men of the city. Positions secured for graduates Catalogue free. By our plan you can live here cheaper than at home. A. B. WHITMORE, Principal. ST. JOSEPH, MISSOURI

monia, blood poison, caked udder, cracked teats. Price, \$1 pint; \$1.75 quart \$3.50 one-half gallon; \$6.00 gallon. HARRY LEONARD, Mgr., Hutchinson, Kans.

Send for a Copy at Once. The steady increase in germ and parasitic diseases affecting farm live stock compels farmers and breeders to give more and more attention to keeping their animals free from their attacks. This is a positive necessity if the farmers expect a profit from them. As an efficient aid to owners of live stock in maintaining them in health and comfort, we can recommend the Veterinary Adviser, a 64-page booklet. It is compiled by noted authorities and treats of the various diseases and parasites which attack live stock. It also points out the necessity for cleanliness and the maintenance of hygienic conditions in connection with live stock, and the value of a reliable disinfectant and insecticide as a means of keeping flocks and herds free from diseases, as well as preventing the spread of infectious and contagious diseases, when an outbreak occurs. The booklet will cost you nothing but a postal card requesting that a copy be sent to your address. Write at once to the Zenner Disinfectant Company, 161 Lafayette Ave., Detroit, Mich.

Two Pianos, Big Cash Prizes Free.

In this issue will be found on page 378 an advertisement of Successful Farming, of Des Moines, Iowa, which is one of the best and most successful agricultural papers in the United States. They are making a remarkable offer to our readers of two pianos and some large cash prizes to those who count the dots correctly in the picture of a piano which appears in their advertisement. Full conditions are given and we would suggest that our readers should look this up and go after these prizes. We would be more than pleased if some of these big prizes should be won by readers of our paper, and, while it is not so easy to count these dots as it may seem from first glance, we see no reason why readers of our paper should not be the fortunate ones. Successful Farming is responsible and refers to every bank and business house in Des Moines and awarding of prizes will be wholly in the hands of disinterested judges, among whom is the Treasurer of the State of Iowa, a judge of the District Court, and a minister. It would seem this is an opportunity for somebody to get large prizes free. Look up their offer in this issue and get in your counts.

SCALES ALL STYLES LOWEST PRICES 30 DAYS FREE TRIAL FREE CATALOGUE AMERICAN SCALE CO. 204 FIDELITY TRUST BLDG., KANSAS CITY, MO

LET ME QUOTE YOU PRICES on buggies. I sell direct to users, and on trial. I pay freight, and refund money if any dissatisfaction. My FREE catalogue shows 125 different styles of buggies and a line of harness. Write me today and I will send you my catalogue by return mail, and quote you on the best buggies and harness made. Address me personally, N. C. Phelps, President Ohio Carriage Mfg. Co., Station 251, Cincinnati, Ohio.

CYCLONE FENCE Combine service and long life with beauty by putting up Cyclone Ornamental Fence. Choice of various styles, suitable for wood or iron posts. All neat and strong and guaranteed to retain position. Special fences for Churches, Schools and Cemeteries with special prices. Write for Catalogue. CYCLONE FENCE CO., Wankegan, Ill.

BIG CORN CROPS can be grown by those who follow the teachings in our new illustrated book, "More Corn to the Acre." It is the best thing ever published on corn, because it is a practical field book. Years of practical knowledge about growing more corn and better corn, by practical farmers, is told in its pages. Some leading chapters are: History of Corn, Anatomy of the Corn Plant, Races of Corn, Good Seed Equals a Good Stand, Seed-Bed Preparation, Selecting Seed Corn, Kinds of Cultivation, Corn Machinery, Corn Judging, and How to Increase the Yield. This book FREE if you send 25c for six months' trial subscription to Farm and Stock, the only illustrated paper which makes a specialty of corn and live-stock. Read about our "Corn Growers' School." You can increase yield ten bushels or more to acre. Money back if not satisfied. FARM AND STOCK, Box 222, St. Joseph, Mo.

Stock Interests

Gossip About Stock.

Attention is directed this week to the card of Mrs. Forest Nave, Lexington, Mo., who advertises Mammoth White turkeys. She was formerly Miss Mary L. Shall, who it will be remembered exhibited so many prize-winners at the World's Fair at St. Louis and at other large poultry shows. She has customers in all parts of the United States, and will be glad to receive orders from any of her old friends.

Dr. N. S. Mayo, who was professor of veterinary science in the Kansas State Agricultural College for some years and who also served as State veterinarian here, has lately been at the head of the Bureau of Animal Industry of Cuba. Word now comes through the daily press that he is to leave Cuba shortly for South America. The item states that the Doctor with his family expects to reach his new home in Montevideo, Uruguay, in June, but gives no further information.

L. D. Arnold, who held such a good Poland-China sale at Abilene last month, writes that the boar pig he had then on exhibition to show the kind of herd-headers his herd-boar, Grand Perfection, was siring, has since been sold to C. M. Garver, Abilene, and Clem Bell, Holland, for \$250. One good judge who saw him said he was the equal of the \$1,600 Illinois pig, Home Run. We don't know, but we think that beats the record for a Kansas-bred 8-months pig.

Leon Carter, owner of the Golden Rule Herd of Duroc-Jersey swine and flock of Rose Comb Rhode Island Red poultry at Asherville, Kans., says he has been breeding the Rhode Island Reds for four years and finds they come nearer meeting the requirements for a general-purpose fowl than any other he ever tried. Mr. Carter has made several exhibitions of his birds, but the hardest contest he ever met was in the State Poultry Show of 1906, where he won second and third prizes on pullet, third on hen, and third on pen. At the Topeka show of 1907 he won first on cockerel, first on cock, first, second, and third on pullet, and first on pen. In addition to having good birds, Mr. Carter also has a good hobby. It is "satisfied customers." Notice his advertisement and write him, mentioning THE KANSAS FARMER.

J. F. Cook & Co., the big jack and stallion breeders and importers at Newton, Kans., and Lexington, Ky., are just making a new shipment of stock to their barns at Newton, that ought to be of interest to Kansas farmers. They say: "In our load of jacks and stallions that will arrive at Newton, Kans., March 29, will be three big, handsome saddle stallions with size, weight, and action. They are of our own breeding and will be priced very close. A 5-year-old jack, Judge Thurman, is full sixteen hands high, standard measure, and the best jack that we ever shipped West. We will also have a number of 4- to 7-year-olds that have the bone and weight that can not be duplicated in quality and price. Now come to Newton and we are sure that we can please you either in a jack or saddle stallion."

Some Hen Figures.

Any one with a liking for statistics may get some glorious facts and figures out of Uncle Sam's annual report on farming operations. It gives a first-class idea of just what we are doing in the way of feeding ourselves—and the rest of the world. No one has a just conception of the immensity of American farm products until he reads such a report. Take the poultry industry—annual production about 45,000,000 crates, or 1,472,043,730 dozens, or 17,664,524,760 individual and separate eggs, worth approximately \$130,000,000. These figures are amazing, yet in spite of this enormous production, it is still a fact that eggs are constantly advancing in price. The hen man needs to wake up to this fact if he aims at the highest possibilities in his business; for until this increasing demand is met and passed, prices are bound to rule higher. This being true, it is manifestly wise to take any and every course that will help production.

No better thing can possibly be done to increase laying than giving a healthy tonic in regular daily doses. All hens, and young chicks as well, need just this help in order to produce the most, or more satisfactory growth. Nothing better for the purpose can be found than Dr. Hess Poultry Panacea. Thousands of successful poultrymen from all parts of the country testify to the wonderful value of this tonic. Dr. Hess (M. D., D. S.), has for years studied every possible condition which may exist in poultry culture, and has given the world his Poultry Panacea as a result. For those who do not know about this tonic let me say, it does not force egg-production by exciting or stimulating the fowl unnaturally. Instead, it makes digestion in the hen an easy and natural process, so that every grain or spoonful of mash eaten either makes eggs or flesh as Nature intended, and in the largest possible amount.

Those who use Dr. Hess Poultry Panacea tell us that it does positively cure and prevent disease. No flock can be sickly where it is used, because it makes the red blood which Nature requires for health, and also the necessary nitrates to carry off poisonous matter from the hen's system. By the use of this wonderful tonic, chicks are matured much earlier than would otherwise be the case; and pullets come into laying when eggs are highest and continue profitable the entire season. The cost of Poultry Panacea is a mere trifle compared with the great result it brings about. One cent's worth will feed 30 hens a day. Dr. Hess and Clark, of Ashland, Ohio, who prepare it, back Poultry Pan-

ce-a with a written guarantee, so there is no risk in trying it. It is abundantly proved that if you use it as directed and occasionally sprinkle hens, roosts, and nests with Instant Louse Killer, your flock will be free from disease and uniformly profitable.

A Good Stock Dip Necessary.

Live stock is profitable only when it attains its best development at a minimum of cost. This applies to those animals which produce milk for human consumption as well as those producing beef, pork, or mutton. All animals are subject to skin diseases and to the attacks of insects, both of which serve to lower their vitality and prevent that degree of thrift so necessary to profit. Indeed, the protection of the domestic animals against disease and the attacks of parasites may mean just the difference between a neat profit and a dead loss. Now if this protection can be afforded with but little outlay of time or money it is sure to be a good investment. Modern skill has solved this problem in the discovery of the materials and their proper combination into a dip. Unquestionably a good dip is a good investment for any live-stock grower and unquestionably, also, some of the many commercial dips now on the market are better than others. Hence, in making an investment of this kind the buyer who secures a good dip secures a good bargain. The experience of many live-stock men shows that Dipolene, made by the Marshall Oil Company, of Marshalltown, Iowa, is one of the best. If any one needs a dip for his cattle it is surely the owner in Kansas who must protect his stock against Texas itch, ticks, mange, and lice. Here is a letter from some cattlemen in Southwest Kansas who have tried it:

"Hatton, Hamilton County, Kans. Marshall Oil Co., Marshalltown, Iowa. Gentlemen:—Please ship us one fifty-gallon barrel of Dipolene, by Santa Fe freight, to Syracuse, Kans. We used Dipolene last June on our cattle to kill Texas itch and lice, also ear ticks. It killed the lice and cured the itch but did not kill the ear ticks, because the Dipolene could not

power problem was completely solved. These engines were made not only reliable but also simple, so that farmers who are not supposed to be mechanics could run them. The International Harvester Company engines quickly made the tread mills and the old-fashioned horse-powers things of the past. International Harvester Company engines furnish an economical power because they use little fuel. They can be adapted to use alcohol as well as gasoline, and therefore are destined to be run cheaply. They can be had in many sizes, such as can easily be moved from place to place, and are especially adapted to light work. Local International agents can supply catalogues and give particulars about these engines. If you need power or want to post up on power questions, call and take up the question with them.

The Kansas City Star and Times.

The Star and Times, reporting the full twenty-four hours' news each day in thirteen issues of the paper each week, are furnished to regular subscribers at the rate of 10 cents per week.

As newspapers, The Star and Times have no rivals. No other publisher furnishes his readers with the full day and night Associated Press reports, as does the Star and Times. This should recommend the papers especially to the progressive merchant and farmer.

Both dailies every day, including THE KANSAS FARMER one year for only \$5. Address: The Kansas Farmer Company, Topeka, Kans.

Higher Quality and Lower Prices for Standard Cream-Separators.

With the demand increasing yearly for cream-separators on dairy farms throughout this country, we wish to again bring to the attention of our readers the fact that the standard high-grade Davis cream-separator is now sold straight from the factory at real factory prices. It is now possible to get the highest grade cream-separator at a very small cost over cost of manufacture. This plan is more fully explained and the separator carefully described in the new "Money Saving

IMPORTANT LIVE-STOCK SALES THIS WEEK.

- March 26, 1907—G. G. Burton, Topeka, horse and cow sale.
- March 26-27, 1907—Herefords at Kansas City, D. R. Mills, Manager, Des Moines, Iowa.
- March 27, 1907—Truman Bros., Kansas City, Mo., Shire and Percheron stallions.
- March 28-29, 1907—Shorthorns at Kansas City, D. R. Mills, Manager, Des Moines, Iowa.

get to them, as they are deep in the animals' heads. We have used four other kinds of dip and find that Dipolene beats them all.

"Very truly yours, 'AUSTIN BROS.'"

Notice the special offer made by the Marshall Oil Company in their advertisement.

A Special Offer to Every Reader.

The tremendous increase in the price of lumber in the last few years has made shingles entirely out of the question on most farm buildings.

In order that every reader of this paper may become familiar with a roofing which is very much better than shingles and is rapidly taking their place, the Barret Manufacturing Company, who are the largest manufacturers of roofing in the world, have offered to send free a sample of their Amatite Roofing to every reader of this paper.

The feature of this roofing is a real mineral surface on top, which not only makes coating and painting unnecessary, but is a splendid fire-retardant. Of course every farmer will appreciate the fact that by doing away with painting and coating it will save time, money, and at the same time will make repairs unnecessary.

We suggest that every reader write at once for a free sample and illustrated booklet. Few things are more important to the farmer than a good tight roof, as a leaky one is an abomination and is apt to cause losses and sickness.

The request for sample should be addressed to the Barret Manufacturing Company at either New York, Chicago, Philadelphia, Cleveland, Cincinnati, Boston, St. Louis, Allegheny, Kansas City, New Orleans, or Minneapolis.

\$58.40 Per Acre.

Out in Page County, Iowa, there was a lot of farmers made good money last year growing "Diamond Joe's Big White Corn," a new variety originated by the Ratekin Seed House of Shenandoah, Iowa. In fact, all who planted it grew record-breaking crops, obtaining from 100 to 125 bushels per acre. One farmer made an average yield of 146 bushels per acre, which he sold on the market for 40 cents per bushel, netting him \$58.40 per acre. We have before referred to this new and wonderful variety of corn, and have just arranged with the Ratekin's Seed House whereby a copy of their new seed book illustrating this corn will be sent free to all who will mention this paper. The address is Ratekin's Seed House, Shenandoah, Iowa. It is a very instructive book and every corn-growing farmer should have one. Send for it to-day.

About Farm Power.

The simple gasoline engines manufactured by the International Harvester Company are doing much in revolutionizing farmwork. Many is the place they are now employed where formerly slow, laborious hand labor had to be resorted to. There is hardly any limit to the times and places where power of some kind can be used on the farm. With the perfecting of gasoline engines a long step was taken toward lightening of farm burdens. With the perfecting of the International Harvester Company engines, the farm-

Catalogue No. 540" just issued by the Davis Cream Separator Company, 125 North Clinton St., Chicago, Ill. A copy will be sent free to any reader of this paper if they will address as above, and mention our paper. It will mean money in your pockets and it is advisable to act right now while the matter is fresh in your mind.

Never Forgets to Say a Good Word.

Clay Center, Kans., Oct. 16, 1905. The Lawrence-Williams Co., Cleveland, Ohio.

Saw your offer to druggists, of lithographs of celebrated horses. Please send same. I always have a place for Gombault's Caustic Balsam, and never forget to say a good word for it in cases of curb, sweency, spavin, etc. It always pleases. W. J. DOWNING.

To the Stockholders of The Farmers' Co-Operative Shipping Association.

The annual meeting of the stockholders of The Farmers' Co-Operative Shipping Association will be held at the National Hotel in Topeka, Kans., at 3 o'clock, Wednesday, April 3, 1907, for the election of a board of directors and such other business as may lawfully come before the stockholders' meeting. J. G. Goings, President.

H. R. Signor, Secretary.

New Advertisers This Week.

- Bertha Evans, R. C. B. Leghorn eggs.
- H. M. Stephens, Buff Rock eggs.
- H. M. Hill, Shorthorn sale.
- Paragon Concrete Fence Post Company.
- H. A. Wattles, Barred Rock eggs.
- Mrs. J. W. Cook, Barred Rock eggs.
- Clay Center Incubator Company.
- G. G. Burton, cow and horse sale.
- Richard S. Righter, wanted pony.
- T. R. Wilkerson, Russell County farm.
- Cyclone Fence Co., wire fence.
- Geo. F. Kellerman, Shropshire sheep.
- H. R. Hilton, Hilton hoe.
- Lawrence-Williams Company, Gombault's Caustic Balsam.
- Mrs. P. E. Town, S. C. B. Leghorns.
- Langley Ranch, wanted, Angus cattle.
- G. A. Reinhardt, jack for sale.
- J. W. Swartz, Neosho poultry yards.
- Mrs. T. R. Walbridge, stallion and jacks.
- Leon Carter, R. I. Reds.
- Minnie K. Clark, Blue Barred Rocks.
- Mrs. Forest Nave, Mammoth W. Holland Turkeys.
- L. H. Hastings, S. C. B. Leghorn eggs.
- J. D. Clark, S. C. B. Leghorn eggs.
- A. F. Hutley, Leghorn and Wyandotte eggs.
- W. S. Young, eggs for hatch.
- Mrs. Bertha Gresham, R. C. B. Leghorns.
- T. B. Wilson, Barred Rock eggs.
- Otto Young, Red Polled cattle.

Watch Your Thirty Feet of Bowels!

YOU have thirty feet of Intestines. What makes food travel through them?

A set of Muscles that line the walls of these Intestines or Bowels.

When a piece of Food rubs the walls of the Intestines these Muscles tighten behind it, and thus it starts a Muscle-wave which drives it through the whole length of the Bowels.

It should take about 12 hours to do this properly, so that nutritious parts of the food may have time to be digested and absorbed.

But,—If it takes twice or three times that period the food spoils in passing, and becomes as poisonous as if it had decayed before being eaten.

Now, the cause of delay (Constipation) is simply Weakness, or Laziness of the Bowel-Muscles.

Want of Exercise, Indoor Employment, weakens these Bowel-Muscles, just as it weakens Arm and Leg Muscles.

"Physic" like Salts, Calomel, Jalap, Phosphate of Soda, Mineral Waters, simply flush-out the Bowels for the one occasion only.

They do not remove the Cause of Constipation.

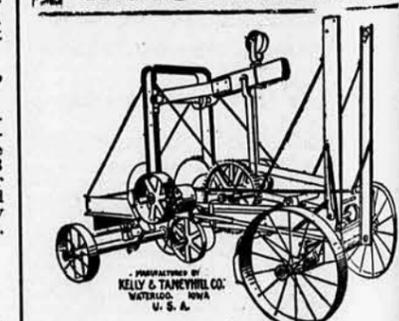
But this is different with Cascarets. Cascarets act on the Muscles of the Bowels and Intestines. They act just as Cold Water, or Exercise act on a Lazy man. They act like exercise.

A Cascaret produces the same sort of Natural result that a Six Mile walk in the country would produce.

The Vest Pocket Box is sold by all Druggists, at Ten Cents.

Be very careful to get the genuine, made only by the Sterling Remedy Co., and never sold in bulk. Every tablet stamped "CCC."

WELL DRILLING MACHINERY



Portable and drill any depth by steam or horse power. We challenge competition. Send for the illustrated circular No. 203.

KELLY & TANEYHILL CO., 203 Chestnut St. Waterloo, Iowa

Don't Eat Glucose.

Use our Perculator (the family use) and with the simple use of granulated sugar and cold water, make the purest and best syrup in the world, at a much less cost than you are paying for glucose or corn syrup. Operation perfectly automatic. Syrup cannot be adulterated or crystallize. No waste. Price \$1.00. Write for full information.

Ever-Ready Syrup Perculator Co., 183 C. Monroe St. Chicago. Agents wanted.

Established 1880.

Southward & Johnston

—Dealers in— Hides, Wool, Furs, Pelts, WICHITA, KANS.

Branch houses—Lyons, Kans., Guthrie, Okla.

Shipping tags and price lists free on application. Write us, try us, and mention The Kansas Farmer.

BEE SUPPLIES

We can furnish you bees and all kinds of bee-keepers' supplies cheaper than you can get elsewhere, and save you freight. Send for our catalogue with a cent sheet for early orders.

Topeka Supply House, 7th and Quincy, Topeka, Kans.



Iowa Corn 19 Feet High.

This remarkable photo is sent us by Henry Field, the seedman, of Shenandoah, Iowa. It is a picture of some corn that grew on his trial grounds from seed imported from Old Mexico.

Grain Markets.

Kansas City, Mo., March 18, 1907. It was quiet in the grain pit to-day. The news was generally bearish and traders were timid.

Table with columns: Open, High, Low, Closing. Rows for WHEAT and CORN.

in store—Wheat 3,789,600 bushels; rye, 547,300 bushels; oats, 70,400 bushels.

Receipts past 48 hours, 183 cars; shipments, 76 cars; receipts same time last year, 46 cars; shipments, 30 cars.

Receipts past 48 hours, 102 cars; shipments, 70 cars. Receipts same time last year, 69 cars; shipments, 48 cars.

1 car 27c; No. 3 yellow, 5 cars 40 1/2 c; 2 cars 40c; No. 4 yellow, 3 cars 39 1/2 c; No. 2 white, 1 car 41 1/2 c, 1 car 41 1/2 c; No. 3 white, 1 car 41 1/2 c, 7 cars 41c; No. 4 white, 1 car 40c.

Oats.—Receipts past 48 hours, 16 cars; shipments, 27 cars. Receipts same time last year, 9 cars; shipments, 8 cars.

Barley.—Slow sale and lower. No. 2, nominally 56@58c; No. 3, 1 car 56c and 1 car 54c.

Choice prairie, \$11@11.50; No. 1 prairie, \$10@10.75; No. 2 prairie, \$9.50@9.50; No. 3 prairie, \$8@7.50; choice timothy, \$14.50@15; No. 1 timothy, \$14.50@15.50; No. 2 timothy, \$12@13; No. 3 timothy, \$9@11; choice clover mixed, \$12.50@13; No. 1 clover mixed, \$11.50@12.50; No. 2 clover mixed, \$10@11; No. 3 clover mixed, \$8@10; choice clover, \$13@13.50; No. 1 clover, \$12@13; No. 2 clover, \$10.50@11.50; wheat and oat straw, \$6.25@6.75; choice alfalfa, \$14.50@15.50; No. 1 alfalfa, \$11@13.50; No. 2 alfalfa, \$8@10; No. 3 alfalfa, \$6@8; slough hay, \$5@6.

Kansas City Live-Stock Market.

Kansas City, Mo., March 18, 1907. Last week closed strong in the cattle market, as the receipts were extra small after Wednesday, and the total for the week was not excessive, at 46,000 head.

The hog supply is moderate, about like it was at this time last year, and prices are going down all the time. Run last week was 47,000 head, and prices declined 15@25c for the week.

Special Want Column

"Wanted," "For Sale," "For Exchange," and small want or special advertisements for short time will be inserted in this column without display for 10 cents per line of seven words or less per week.

CATTLE.

CATTLE—At Public Sale, Tuesday, March 26, 1907, 30 registered and grade Jersey and Holstein dairy cows and heifers, separator, dairy fixtures, etc.

WANTED—Angus cows or heifers, two car loads or more; also two bulls of same breed. These cattle must be good grade and in healthy condition.

DOUBLE-STANDARD POLLED DURHAM BULLS—Extra good quality, well bred, good color.

FOR SALE—Bull calves from prize-winning Holstein cows. Good ones and cheap to early buyers.

SPECIAL SALE—5 straight Cruickshank Short-horn bulls for sale at bargain prices for quality.

ABERDEEN-ANGUS CATTLE and Percheron horses. Stock for sale. Garret Hurst, breeder, Peck, Sedgwick County, Kansas.

SWINE.

FOR SALE—Forty Duroc sows and gilts, bred for March and April farrow. Also sows with litters.

FOR SALE—Poland-China bred gilts, also 4 extra July boars. Have a number of Holstein milk cows and springers.

FOR SALE—Poland-China hard boar, O. K. Perfection 34224 by Black O. K. and out Ideal Perfection 4th 70321. He is a great sire, in fine condition.

POULTRY.

BLUE BARRED ROCKS—Large, vigorous, farm raised stock, \$1.50 per 15; \$3 per 50; \$5 per 100.

MAMMOTH WHITE HOLLAND TURKEYS. Eggs for sale from a long strain of prize-winning hens mated to a 40 pound yearling tom.

ROSE COMB BROWN LEGHORN EGGS FOR SALE. Bred for years from the best egg laying strains. Write for prices.

S. C. B. LEGHORN EGGS, 30 for \$1; 100 for \$3. Mrs. P. E. Town, Route 3, Haven, Kans.

A BIG BARGAIN—Choice B. P. Rock females. "Bradley Bros." \$15 per dozen. H. A. Wattles, Agent Pacific Express, Bayneville, Kans.

S. C. W. LEGHORN AND W. WYANDOTTE EGGS from high scoring stock. \$1 per 15; \$5 per 100.

YOU WOULD WANT some of my eggs if you could see my flock of range S. C. B. Leghorns. Average score 93 1/2 by Atherton. Eggs, \$1 per 15; \$4 per 100.

ROSE COMB BROWN LEGHORNS. ALSO BARRED ROCKS—Best selected and fresh eggs \$1 per 15; \$5 per 100.

S. C. BROWN LEGHORNS—Best laying strains in the west. Eggs for hatching, \$1 per 15. Special prices on large lots.

NEOSHO POULTRY YARDS. Rose Comb R. I. Reds—Score from 90 to 94 1/2 points. Seven years experience with this breed.

STAY WHITE. S. C. W. Leghorn and Buff P. Rock eggs \$1 per 15. At Nickerson show 1907 (Heimlick Judge) I won incubator on highest scoring cock, cockerel, hen, pullet in Mediterranean class.

Now is the Time to Get Your Eggs for Hatching. From W. S. Young, McPherson, Kans., the old reliable breeder of Rose Comb and Single Comb White Leghorns and White Wyandottes.

Rose Comb Rhode Island Reds. PRIZE WINNERS. Eggs from select matings, average score 92 points.

BUFF PLYMOUTH ROCK EGGS. I have bred Buff Rocks exclusively for six years; have purchased eggs and birds from the best blood I could find in the west and now have as fine a lot of birds as I ever saw.

SALMON FAVEROLLES. are unexcelled as layers both winter and summer as broilers on account of early maturity and quality of flesh.

LEGAL. FRED C. SLATER, Lawyer, Topeka, Kansas. Collections made in all parts of the country. Advice given on matters by mail. Inheritances collected and estates investigated in all parts of the world.

HORSES AND MULES.

WANTED A PONY—From 4 to 6 years old. Write giving full description and price to Richard S. Righter, 1220 Fillmore St., Topeka, Kans.

HORSES—At Public Sale, Tuesday, March 26, 1907, 1 pair young, well matched Arab mares, 2 young registered saddle stallions, farm implements, etc.

FOR SALE—One imported Belgian stallion, one Canadian Coach stallion, one Mammoth black jack and two Mammoth jennets.

FOR SALE—A good 4-year-old jack, black with white points, 14 1/2 hands high. Has been tried and is a good performer and sure.

FOR SALE—Eleven head of jacks and stallions. Jacks Kentucky and Tennessee bred. Big ones. Two draft stallions. One registered saddle stallion.

FOR SALE—Registered black Percheron stallion, weight 1900 lbs., 8 years old. Will trade for horses or cattle.

FOUR big young jacks for sale. Address Geo Sidem, Bayard, Allen Co., Kans.

TWO JACKS FOR SALE—3 and 4 years old. Missouri bred. Address S. C. Hedrick, Tecumseh, Kans.

FOR SALE—At reasonable prices, Black Imported Percheron stallions. E. N. Woodbury, Cawker City, Kans.

FOR SALE—One black team, 6 and 7 years old, weight 2600 pounds. Mr. and Mrs. Henry Schrader, Wauneta, Kans.

SEEDS AND PLANTS.

SEND ONE DOLLAR and receive, prepaid, 100 plants of new strawberry. Finest home garden berry ever produced.

Boone County White

The largest yielding variety of white corn. Prize-winning strain. Every ear tested for growing; all failing to start 100 per cent rejected.

FOR PRICE LIST of the latest and best in strawberry, raspberry and blackberry plants send to Wm. Brown & Sons, Route 9, Lawrence, Kans.

PEDIGREED SEED CORN—For pure-bred seed-corn, write E. E. McClure, Republic, Kans. Send for samples.

EXTRA FINE BOONE CO. WHITE—Seed corn for \$1.25 per bushel. A. J. Nicholson, Manhattan, Kans.

FOR \$1 I WILL SEND YOU 800 strawberries or 100 raspberries, or 100 blackberries, or 25 grapes or currants or rhubarb, or 20 gooseberries, or 200 asparagus plants.

FOR SALE—Re-cleaned Macaroni seed-wheat, Kubanka, sacked at \$1.25 per bushel. Two bushels sacked \$2.25.

Trees

At bargain prices. List now ready tells all about our cleaning-up sale of choice trees. Send for it to-day.

SEED SWEET POTATOES—Buy direct from grower and get first class stock, also field selected seed, Hildreth Yellow Dent corn.

Pedigreed Corn BOONE COUNTY WHITE

Selected ears, \$2 per bushel, crated. Address Edwin Taylor, Edwardsville, Kans.

JUST OUT—Our New Seed Catalogue for 1907. Complete from cover to cover. Latest and best novelties in vegetables and flowers.

SWEEPSTAKES CORN at both the Kansas State Fair and the Kansas State Corn Show was grown and exhibited by W. R. Hildreth, Altamont, Kans., who has the same kind for sale for seed.

WANTED—Alfalfa, Red Clover, Timothy, Millet, Cane seed and other field and grass seeds; also popcorn. If any to offer please correspond with us.

REAL ESTATE.

FOR SALE—160 acres in Russell County, all fenced and cross fenced. 40 acres good bottom alfalfa land, balance good pasture.

FOR SALE OR TRADE—For real estate, 4-year-old black jack, white points, 15 hands high, sound, sure, a fine individual.

MISCELLANEOUS.

ATTENTION—Farmers and Dairymen! Increase your income by learning to make three pounds of good butter from one pound. No fake. No drugs used.

WANTED—Gentleman or lady to travel for mercantile house of \$250,000 capital. If desirable the home may be used as headquarters.

FOR SALE—Red Irish Setter puppies. John M. Price, Atchison, Kans.

WANTED—A secondhand traction engine, not less than 16 horse power. Dr. W. E. Barker Chanute, Kans.

OSAGE FENCE POSTS for sale; 2000 seasoned, 1000 just cut. W. E. Barnes, Vinland, Kans.

WANTED—Men to learn barber trade. We prepare you for positions \$12 to \$20 weekly. Few weeks completes. Scholarship includes tuition, tools, board, diplomas and position.

HONEY—For Kansas, Missouri and Oklahoma. Two 5-gallon cans, 120 pounds net—Amber \$8.40; whitest \$9. Also small cans. Comb honey in one pound sections 12 1/2c.

DUROC-JERSEYS

Woodlawn

We have just 10 head of spring boars left for sale and we are going to make very LOW prices for the next 30 days to close them out. They are sired by Fancy Chief 24723, the great show boar FANCY TOPNOTCHER 49329, first in class at Kansas State Fair and by PRINCE WONDER 42455. They have the size and are sure to suit you.

JNO. W. JONES & SON,

D. M. TROTT Abilene, Kans., famous Duroc Jerseys and Poland-Chinas.

SUNFLOWER HERD DUROC-JERSEY SWINE

Booking orders only for future delivery.

SAMUEL BOSTON, Smith Center, Kans.

DUROC-JERSEYS - Large-boned and long-bodied kind. Bred gilts and fall pigs, either sex. Prices reasonable.

E. S. COWEE, Route 2, Scranton, Kans.

CRIMSON WONDER HERD. All bred gilts sold out. Have a few Crimson Wonder boar pigs for sale yet. Will have some fine weanlings to sell by May, sired by Missouri's Wonder King, Oom Paul 3d, Crimson Challenger, Crimson Wonder. Mr. and Mrs. Henry Shrader, Wauneta, Kans.

Pigs Shipped on Approval.

200 head of Durocs, all ages, representing the blood of Combination, Valley Chief, and a son of Kant-Se-Bear.

T. L. LIVINGSTON, Burchard, Neb.

Orchard Hill Herd of Duroc-Jerseys

Tried sows and gilts for sale bred to that great sire, Norton's Top Notcher by Tip Top Notcher. Also some good males. Send for private sale catalogue.

E. F. NORTON & SON, Clay Center, Kans.

DUROC-JERSEYS.

Everything of breeding age sold. We have some of the thriestest pigs of the breed and they will please you. Write to Buchanan Stock Farm, Sedalia, Mo.

Peerless Stock Farm

20 bred gilts, and fall pigs of both sexes for sale.

R. G. Sollenbarger, Woodston, Kansas

McFARLAND BROS.,

Breeders of Champion and Grand Champion Duroc-Jersey swine. Winners at World's Fair, American Royal and State Fairs. Stock of all ages for sale

Route 1 Sedalia, Mo.

Fairview Herd Durocs and Red Polled

My herd bull, Expansion, for sale. No swine for sale now. Spring sale, February 13, 1907.

J. B. Davis, Fairview, Brown County, Kans.

Egypt Valley Durocs.

Herd headed by Egypt Lad 24022. Stock always for sale. Choice fall boars and gilts, reasonable. Also six fine sows, bred to Lora's Lad, to farrow in April; will also sell some tried sows. Write for prices and particulars.

H. W. STEINMEYER, Volland, Kans.

Vick's DUROCS are bred for usefulness.

Choice young stock for sale by such great boars as Vick's Improver 47225, Red Top 32341, Fancy Chief 24022 and other noted sires. Correspondence invited. Visitors coming to Junction City and phoning me will be called for.

W. L. Vick, Junction City, Kansas

Lone Star Durocs

We will have over 50 fine boars for sale this fall, representing the best blood lines in the country. Orders booked after July 1, and shipments will be made to responsible parties on approval.

J. L. WILLIAMS, Bellaire, Kansas

Otatop Herd Duroc-Jerseys

Herd composed of best blood in the west. Headed by Otatop Notcher, out of Tip Top Notcher, who weighed 1120 pounds at 18 months, and sold for \$5,000. Bred gilts and fall pigs for sale at reasonable prices.

JOHN W. TAYLOR, Edwardsville, Kansas

Ward Brothers

Republic, Kans.

Spring Durocs for sale sired by Model H 27967, the best son of the great Higgins Model; also Shake-speare 2d, and other noted sires; also some fall boars that will be a credit to any herd. Write for prices.

COUNTY LINE HERD OF DUROCS.

For ready sale, September and October pigs, both sexes, carrying blood of Jumbo Jr., Second Surprise, Climax and Joe; also one 2-year-old bred sow.

O. N. Wilson, Silver Lake, Kans.

WILSONS' DUROCS

I have for sale a few gilts and boars sired by Ohio Chief. I also have a number of fine boars carrying the leading blood of the Duroc breed. Can please you in something good.

R. L. Wilson, Chester, Nebraska

DUROC-JERSEYS

Home of The Famous Fancy Herd Registered

DUROC-JERSEY SWINE

FOR SALE - A few choice gilts bred to Nelson's Model 22095 or to Long Wonder 21867 for April and May farrow.

J. F. Staadt, Ottawa, Kans.

STAADT'S DUROCS.

FOR SALE - A few choice gilts bred to Nelson's Model 22095 or to Long Wonder 21867 for April and May farrow.

J. F. Staadt, Ottawa, Kans.

Oak Grove Herd of Durocs

Herd headed by Choice Goods H. 26471 by Hunt's Model, and Corrector's Model 24281. I have for sale a few choice males of spring and fall farrow that will be priced worth the money.

SHERMAN REEDY, Hanover, Kans.

Duroc's

from the Highland herd carrying the blood of the leading strains of the country. 50 fall boar pigs for sale sired by Red Raven 47607, Model Chief Agin 42943 and Morton's Decree

47601. There are some herd headers in this lot. They are good ones and the prices are right.

GRANT CHAPIN, Green, Kansas

POLAND-CHINAS

Kansas Herd of Poland-Chinas has Kansas Perfection 40844, and W. R. C. Leghorn cockerels for sale. F. P. Maguire, Route 4, Hutchinson, Kans.

POLAND-CHINA GILTS

of last fall's farrow, at \$15 per head. Bred Plymouth Rock eggs cheap. Stock first-class every way. Address

M. C. Vansell, Muscotah, Kans.

ELM GLEN FARM POLAND-CHINAS.

Size, breed, character and fashionable breeding. Stock all ages for sale.

WM. KNOX, South Haven, Kans.

REPUBLIC COUNTY HERD OF POLANDS

The big-boned, quick-maturing type. A nice lot of crackerjack boars for sale; the useful kind. Also a few 250 pound gilts, bred for April and May farrow. Breeding up-to-date. Write O. B. Smith & Son, Cuba, Kans., and mention The Kansas Farmer.

CEDAR GROVE HERD

Of pure-bred POLAND-CHINA HOGS. We will have some bargains this season to offer the public.

J. A. Hebrew, Stockton, Kans. Mention Kansas Farmer when you write.

Dawley's

Poland-Chinas are a distinct type of their own. Herd headers for sale sired by E. L. 2d, Spellbinder, Grand Chief, Sunflower Perfection, On and On, Keep On, Nonpariel and other noted sires. Prices moderate and satisfaction guaranteed.

FRANK DAWLEY, Waldo, Kansas

Maple Valley Stock Farm

The grand breeder Mo. Chip 2d is at the head of my Poland-China herd. My foundation stock is the best that money can buy and I guarantee my stock. One herd boar and a few choice May boars for sale. Correspondence solicited and visitors always welcome. Breed sow sale February 26, 1907.

C. P. BROWN, Route 2, Whiting, Kans.

Oak Grove POLAND-CHINAS...

Nemo L's Dude, prize-winner and sire of winners, and Sir Darkness out of Darkness and by Chief Perfection 2d in service. A few boars for sale.

GUS AARON, Route 5 - Leavenworth, Kans.

Shady Lane Stock Farm

The home of the western champion, Peerless Perfection 2d 28664. On January 22, 1907, will sell 50 fancy bred sows, bred to Peerless Perfection 2d 28664, Grand Perfection 77899 and Corrector Chief 28663, at my farm.

HARRY E. LUNT, Burden, Kans

Yukon Polands

Spring pigs for sale sired by the great boar, Perfection Tecumseh 27989 S., and out of sows of equal breeding. Also a few choice ones by a son of Medler. Write me for full particulars.

J. B. MYERS, Canton, Kansas

JOHN BOLLIN,

Route 5, Leavenworth, Kans.

Breeds and Sells Poland-Chinas Popular

The State and World's Fair winning boars Nemo L's Dude and The Picket in service. Bred sows and serviceable boars for sale.

POLAND-CHINAS

UNGLES' HOGGETTE

The great preventive and cure for HOG CHOLERA. Indorsed by more good breeders than any other remedy. We also put out a Dip at \$1 per gallon, in 5 and 10 gallon cans. Freight prepaid. Guaranteed as good as any Dip on the market or money refunded. Address

UNGLES HOGGETT CO. Lincoln, Nebraska

Stalder's Poland-Chinas

I have pigs for sale from the leading strains of the country. Prices reasonable. Write for full particulars.

O. W. Stalder, Salem, Neb.

The Useful Type of Poland-Chinas

Herd headed by Pilate Chief 43565 by Johnson's Chief 38774, and Major King 43564 by Major M. 31527, a 1000-pound hog.

E. D. Morris, Bern, Kansas

Square Deal Herd--Poland-Chinas

Herd boars: Callie's Chief by Garver's Choice, and Calder's Grand Chip by Grand Perfection 27480 out of Mo. Chip dam. Address

Wm. D. Calder, Prop., Bancroft, Kans.

Elerbeck's POLAND-CHINAS

are from the leading strains of the heavy type. Good boars and gilts for sale. Write for information.

J. T. ELERBECK, Beatrice, Neb.

Decatur County Herd Up-to-date Poland-Chinas

A choice lot of summer and fall pigs of both sexes are now offered; just the kind that the farmer selects, heavy boned, long bodied, plenty of finish. Prices reasonable; write your wants.

R. H. WEIR, Route 3, Oberlin, Kans.

Popular Poland-Chinas

Chief Perfection 2d and other fashionable blood lines. The Champion American Royal 1906 is our type, this sire is a half brother to a number we offer. Stock all sold. Orders booked for future delivery.

P. L. WARE & SON, Paola, Kansas

CHESTER-WHITES

CEDAR LAWN BERKSHIRES My sows are sired by Elma's Prime 64778, and Berrington Duke 72946. Boar at head of herd, Jourd' Topper 78277.

Wm. McAdam, Netawaka, Kans.

Eagle Stock Farm.

Breeder of O. I. C. hogs. Young stock for sale. See or write me.

A. W. TOEVES, Prop. - - - Iaman Kans

World's Fair Improved Chester-Whites

at auction at Pleasant Hill, Mo., on November 2, 1906. Forty O. I. C's. 15 Shorthorn cattle.

W. W. Waltmire, Raymore, Mo.

O. I. C. The World's Best Swine

Spring pigs for sale, singly, in pairs or trios; properly mated and sired by Norway Chief, our first and sweetestakes, and other good boars. Write for our free booklet. Some snaps for first orders.

THE FISHER LIVE-STOCK COMPANY Hastings, Nebraska

When writing mention The Kansas Farmer

BERKSHIRES

WINNING BERKSHIRES

My hogs have won at Iowa, Nebraska, Kansas and Missouri state fairs. I breed for size and quality. Herd headed by DUKE OF WOODDALE 67361 and ARDMORE CHIEF 69388. Can furnish the blood of different prize winners. Write me your wants. Visitors always welcome.

W. B. HOLT, FALLS CITY, NEB.

Guthrie Ranch Berkshires

FOR SALE - 100 spring pigs sired by Revelation 86906, by Berrington Duke 72946; Ivanhoe 92184, by Berrington Duke 72946; and Richard Masterpiece by Masterpiece 77000. Our herd is one of the best in the state and we can please you. Prices quoted on application.

T. F. Guthrie, Saffordville, Kans.

Berkshires

Of both sexes for sale. Herd headed by Imported Baron Compton 89190.

W. J. Grist, Osawkie, Kans

New York Valley Herds

of Shorthorns and Berkshires

Baron Rupert 248267 at head of Shorthorns. Young stock for sale. Lee Star 88238 and Lee's Masterpiece at head of Berkshires. Choice young stock of different ages for sale, at reasonable prices. Satisfaction guaranteed.

J. T. BAYER, Route 1, Yates Center, Kans.

Ridgeview Berkshires

Bred gilts and fall pigs. Get in your orders early.

MANWARING BROS., Route 1, Lawrence, Kan

CHESTER-WHITES

O. I. C. SWINE

Last year's crop all sold. Am booking orders for March and April pigs. Order early.

S. W. ARTZ, Larned, Kans.

RED POLLS

COBURN HERD OF RED POLLED CATTLE

Herd now numbers 115 head. Young bulls for sale.

GEO. GROENMILLER & SON, Pomona, Kans.

The Oldest RED POLLED CATTLE

Herd of In the state. Herd established 1889. A world's fair winner heads the herd. My cows run in weight from 1200 to 1600 pounds. Call on or address

W. H. HELL, Cedar Creek, Neb.

RED POLLED CATTLE AND POLAND-CHINA SWINE

Best of breeding. Write or come and see

CHAS. MORRISON & SON, Route 2, Phillipsburg, Kans.

FOR SALE - Seven good Red Polled

months old; also light Brahma chickens. Chas. Foster & Sons, Route 4, Eldorado, Kans., breeders of Red Polled cattle and Light Brahma chickens.

RED POLLED CATTLE

Of the choicest strains and good individuals. Young animals, either sex, for sale. Also breeders of Percheron Horses and Plymouth Rock Chickens

Address, S. C. BARTLETT, Wellington, Kansas

Fort Larned Stock Breeders Association

Red Polled and Galloway Cattle

Young animals, either sex, for sale, of the choicest strains and good individuals. Imp. Galloway bull, Nuget, in service. Prices reasonable and inspection invited. Address

E. E. FRIZELL, Larned - - - Kansas

HEREFORDS

HEREFORDS FOR SALE

I have for sale 36 bull and heifer calves 4 to 18 months old. Come and see them or write. Address Jas. A. Carpenter, Carbondale, Kansas.

Maplewood Herefords

The great 2400 lb. Dale Duplicate 2d, chief herd bull, son of the great Columbus. High-class stock for sale

A. JOHNSON, Clearwater, Kans.

Vermilion Hereford Co., VERMILION, KANSAS

Boatman 56911 and Lord Albert 126587 head of herd. Choice young stock of both sexes for sale.

E. E. WOODMAN, Vermillion, Ka.

Modern Herefords

Herd bulls, Protocol 2d 91715 - Beau Beauty 19888, and Printer 66384, the best living son of the great Beau Brammel. Young bulls, cows and heifers for sale.

Robt. H. Hazlett, El Dorado, Kans.

BERKSHIRES

HIGHLY BRED SHORTHORNS

My hogs have won at Iowa, Nebraska, Kansas and Missouri state fairs. I breed for size and quality. Herd headed by DUKE OF WOODDALE 67361 and ARDMORE CHIEF 69388. Can furnish the blood of different prize winners. Write me your wants. Visitors always welcome.

W. B. HOLT, FALLS CITY, NEB.

King's Berkshires

Have weight, quality and constitution developed by rustling for the best pork producing food crop, alfalfa and blue-grass, supplemented with a light ration of grain and mill-feed. They are the right and best of all are priced right. Write for anything in Berkshires to

E. D. KING, BURLINGTON, KANSAS

KNOLLWOOD BERKSHIRES

Pacific Duke 56691, the 1,000 pound champion and breeding boar from herd of S. E. Wright, Rosa, Cal., bred by N. H. Gentry; Model Prince 60184, by Halle 60128, sweetstakes Pas-Anson sow, Stumpy Lady, 63409, by Combination sweetstakes Kansas City and Chicago 1907 Model Princess 62514, the \$150 daughter of Lee 47971; Lady Lee 90th 65085, the \$100 daughter of Lord Premier 60001, and other "Blue Blood" bred to 3 grand boars and young stock for sale.

E. W. MELVILLE, Eudora, Kans