



KANSAS FARMER

For the improvement  of the Farm and Home

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THE proper education of the farm boys and girls cannot be neglected without finally bringing ruin to the farming communities. The type of district school that afforded an education to the children of a generation ago is no longer sufficient. Progress in every phase of human endeavor has been so rapid, methods of business have been so radically changed, competition has become so keen that the child of today who is to become the active citizen of tomorrow must have a decidedly broader and more liberal training than that of our fathers. —E. T. Fairchild



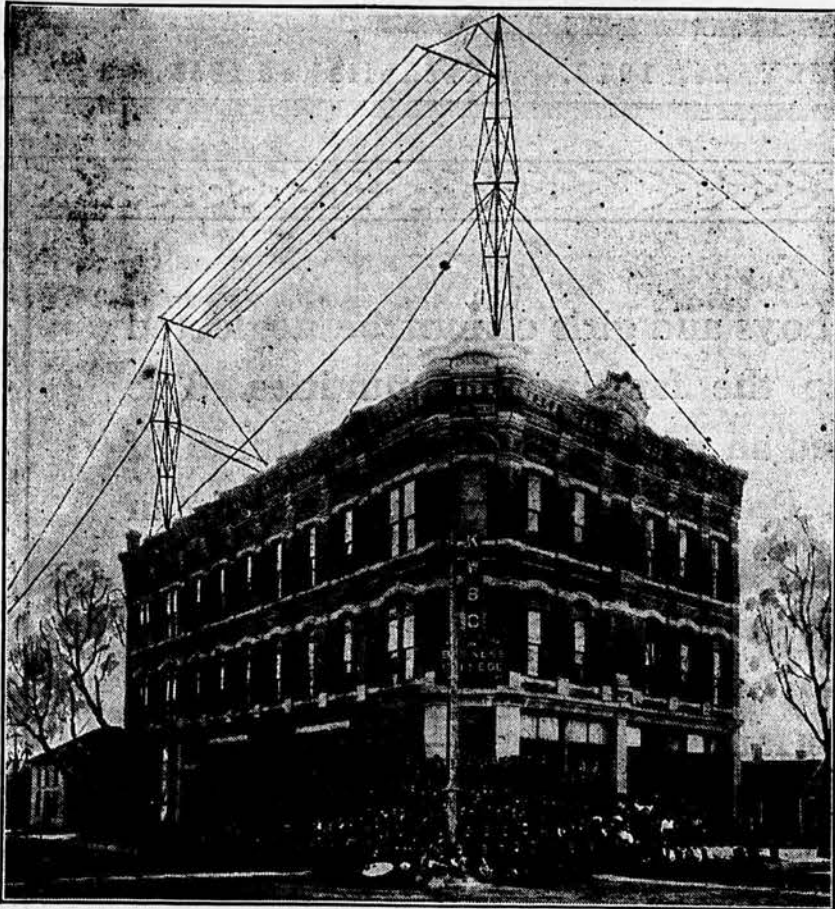
The Child of Today Who is to Become The Citizen of Tomorrow

OUR GRADUATES ARE MAKING

\$3,025,000.00 PER YEAR

YOU CAN BE ONE OF THEM AT A BIG PROFIT TO YOURSELF

**Read Every Word of This Important Announcement
and send for our FREE Illustrated Catalogue at Once**



Young Man, Young Woman, the Business World, with its busy hum of industry, is waiting for you. Not in the past twenty-one years has there been such a demand for competent OFFICE HELP as at present. The demands of growing business concerns that are looking to us for STENOGRAPHERS, BOOKKEEPERS, TEACHERS, TELEGRAPHERS and graduates of our other courses, to whom we offer POSITIONS PAYING FROM \$50.00 TO \$100.00 PER MONTH, or even more, are greater than we can supply.

THERE NEVER WAS A MORE FAVORABLE OPPORTUNITY TO SECURE THE KIND OF POSITION YOU WANT—AT THE BEST WAGES. ACT NOW WHILE YOU CAN COMPLETE YOUR EDUCATION UNDER SUCH FAVORABLE CIRCUMSTANCES.

We Guarantee a Position to Every Graduate of our Combined Commercial and Shorthand Course and to the men Graduates of Our Telegraph Course

We invite you to investigate our school and to ask your banker about THE KANSAS WESLEYAN BUSINESS COLLEGE, of Salina, Kansas.

Our twenty-one years' record preparing young men and young women for business work INSURES YOUR SUCCESS.

THE KANSAS WESLEYAN BUSINESS COLLEGE OFFERS YOU FOURTEEN COURSES

COMMERCIAL COURSE, fitting you for a position as bookkeeper or accountant.
SHORTHAND AND TYPEWRITING COURSE, fitting you for a position as stenographer or teacher of shorthand.
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SHORTHAND AND BUSINESS COURSE, preparing you for a position as a stenographer and bookkeeper.

A SCHOOL THAT STANDS HIGH IN THE BUSINESS WORLD

In selecting a school you should not fail to select one which stands high in the estimation of bankers, railroads, wholesale houses, manufacturers, and others whose demands for office help is large and growing and who pay the best wages. We urge you to investigate The Kansas Wesleyan Business College.

For twenty-one years it has been graduating boys and girls and men and women into splendid paying positions. Our students have come from the farms and city homes of every state in the Union to learn a USEFUL, MONEY-MAKING OCCUPATION and to start on business careers. Many of our graduates have attained brilliant success; scores have become successful bankers, merchants, manufacturers, salesmen and teachers. Our thousands of graduates are making over \$3,025,000 a year at this time, and we have received an almost endless number of voluntary letters of appreciation from these graduates saying how much they value their education and

training in Kansas Wesleyan Business College.

These young men and young women were situated just like you are. They had the same advantages and disadvantages. They came to our school, received our instruction, finished their education and went to work. There is more work, and wages are better now than a few years ago, so YOU have an advantage some of these others did not have.

THE KANSAS WESLEYAN BUSINESS COLLEGE IS THE OFFICIAL TELEGRAPH SCHOOL OF THE UNION PACIFIC RAILWAY. EVERY MAN WHO GRADUATES IS GUARANTEED A POSITION AS SOON AS THE COURSE IS COMPLETED.

The Kansas Wesleyan Business College is the only school in Kansas selling a life scholarship at the low price of \$45.00.

No other business college in Kansas gives you

so much for the same amount of money. If you prefer, you can pay your tuition by the month, but the scholarship plan gives you plenty of time to complete the course and you may return to school and review at any time without additional expense.

The Life Scholarship is a paid-up contract for tuition in the course for which it is issued.

Our large faculty of teachers enables us to offer you small classes where the best possible instruction is given.

Kansas Wesleyan Business College occupies the entire building shown in the accompanying illustration. It affords plenty of room for over one thousand students. It has modern equipment and office appliances throughout. In the typewriting department alone there are eighty typewriters, all the property of Kansas Wesleyan Business College. These afford ample opportunity for every student in the shorthand or typewriting courses to practice upon.

SALINA A COLLEGE AND BUSINESS TOWN

In selecting a school it is important to look at its location. Salina, Kansas, the home of Kansas Wesleyan, is one of the cleanest and most progressive business cities in the United States. It is known from ocean to ocean as a "clean city." Its citizenship is high, exerting a wholesome influence upon the students who come here to school and supporting the school in its principles of discipline and training.

If you are expecting to attend college, do not fail to write for our catalog and copies of our paper, "The New Era." We will take pleasure in answering any and all questions.

FILL OUT, TEAR OFF, AND MAIL TODAY.

T. W. ROACH, Pres. Kansas Wesleyan Business College,
Salina, Kansas.

DEAR SIR:—Please send me FREE and POSTPAID your 1913 Catalog and a copy of "THE NEW ERA" telling me all about your school and guaranteed positions to graduates.

My Name

My Address

Many Students Earn Their Way Through School

At this time of the year we always have openings for several students who desire to do some work to earn money to pay a part of their expenses through school. We are always glad to help those who may find it necessary to earn a part of their way while going to school. Many have earned their entire way through our college by working in Salina as they went to school. Many others have completed an entire course and paid all expenses with \$100.00, and secured a position.

OUR CATALOG AND PAPER WILL TELL YOU ALL ABOUT IT.

For further information, address

The Kansas Wesleyan Business College

T. W. ROACH, President, SALINA, KANSAS

THE BUSINESS UNIVERSITY OF KANSAS

SUBSCRIPTION PRICE

\$1.00 per year; \$1.50 for two years; \$2.00 for three years. Special clubbing rates furnished on application.

ADVERTISING RATES

30 cents per agate line—14 lines to the inch. No medical nor questionably worded advertising accepted. Last forms are closed Monday noon. Changes in advertising copy and stop orders must be received by Thursday noon the week preceding date of publication.



KANSAS FARMER

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GUARANTEED CIRCULATION OVER 60,000

OUR GUARANTEE

KANSAS FARMER aims to publish only the advertisements of reliable persons or firms, and we guarantee our subscribers against loss due to fraudulent misrepresentation in any advertisement appearing in this issue, provided, that mention was made of KANSAS FARMER when ordering. We do not, however, undertake to settle minor claims or disputes between a subscriber and advertiser, or be responsible in case of bankruptcy of advertiser after advertisement appears. Claims must be made within thirty days.



PROBABLE FEED SHORTAGE.

Conditions over Kansas during the month of July have been such that a short feed crop will inevitably result. To be short of feed is very discouraging, especially to the live stock farmer. Too often in times past have Kansas farmers been compelled to sacrifice animals due to a partial failure of the various feed crops. Under present conditions it is incumbent upon every live stock owner to consider carefully how he may secure the best possible returns from all the feed he may have. It may be that he has become so discouraged owing to prevailing conditions as to consider further cultivation and care of the crop to be labor thrown away. To such we would only throw out the suggestion that Kansas almost invariably comes back, and urge that the crop, poor as it may look at the present time, be given every chance possible to take advantage of more favorable conditions which may come later in the season. The writer well recalls an illustration of an incident of this kind. During the extremely dry summer of 1911 two silos were being built on the station farm at Hays, Kansas. Late in August, while the writer was superintending the construction of these silos, the conditions of the crops on the farm were such as to suggest that these silos might possibly stand absolutely empty. A field of kafir adjacent to the silo was scarcely knee high and apparently had not grown for several weeks. Nevertheless, Professor Ten Eyck, who was superintendent of the farm at that time, had sufficient faith in the future to send out the two-row cultivators and go through this field when all conditions seemed to indicate that this labor would be thrown away. Rain came during the first week in September, accompanied by hail, which still further damaged the kafir, but the amount of moisture was sufficient to give it a fresh start. This circumstance, combined with the cultivation which had served to check the loss of moisture previous to the rain, and a late frost, resulted in growing this kafir crop out until it produced quite a creditable crop of feed.

If the station had been without the silos, however, it would have been impossible to winter the live stock on hand in a satisfactory manner, owing to the shortage of the feed crop. Every acre of kafir and corn on the farm was cut and hauled to these silos. In some instances the distance from the silo to the field amounted to as much as two miles. During the extremely severe winter of 1911 and 1912 which followed, the cattle of the station farm had an abundance of roughage of the best kind and came through the winter in splendid condition. One hundred and forty head of animals were in the herd at this time. What would have been the result if the short kafir and corn had been put up in shocks and stacks in the dry form can readily be imagined by the live stock farmer familiar with such conditions. This is another argument for the great necessity of the silo to the live stock farmer under conditions which tend to produce short feed crops. With a heavy growth of feed we oftentimes can waste large quantities of it and still winter our stock in good shape. When feed is short, it is necessary to utilize to the best advantage possible every ounce of nutrient material which has been produced on the farm. A stock farmer near the station farm at Hays, in commenting on the results secured that season in the wintering of the Hays stock, stated that on his farm he produced a larger and better feed crop than was grown on the station farm. He had a smaller amount of live stock to winter, but handled as he necessarily handled his feed, he had great difficulty in getting his stock through the winter at all. We would urge the farmer facing these conditions to do all he possibly can himself, even though things may look discouraging. He has absolutely no control over the weather, but does have within his power the giving of that stunted feed crop the last cultivation which possibly may be the means of saving him a great deal. He should care-

fully consider the silo as a means of utilizing what he may grow to the best advantage possible. It is comparatively easy to realize on a good grain crop of any kind. The utilization of the roughage part of the crop, however, is not so simple a matter. To the western farmer who does not have the capital to secure a thoroughly modern silo, we would again suggest the pit silo as a makeshift. All the details of constructing and handling the pit silo have been given in recent issues of KANSAS FARMER. Turn back to these issues and again refer to these articles. Possibly the expenditure of a little labor and a few dollars in material may be the means of returning much value through the proper feeding of the live stock on the farm the coming winter.

VALUE OF EDUCATION TO FARMER.

In these days of keen competition in all lines of business, the man with the trained mind has a great advantage over his fellow man who has failed to prepare himself for his calling in life. There used to be a notion that the boy

markable differences were brought to light when these farmers were grouped in accordance with their educational training. The group of farm owners under consideration numbered 573. Of this number 398 had received a common school education only. One hundred and sixty-five had received a high school training, ten had received training above the high school. The average annual labor income received by the 398 common school farmers amounted to only \$318. The average annual labor income received by the 165 high school farmers amounted to \$622. The ten college trained farmers received an annual labor income of \$847. The \$304 increase in labor income received by the high school farmer would represent 5 per cent interest on over \$6,000, or in other words it might be said that an ordinary high school education was worth over \$6,000 to each one of these farmers.

It is generally recognized that the amount of capital available in the start has considerable bearing upon success in any occupation. Those in charge of this investigation separated these farmers

SAVE YOUR FEED

FEED is certain to be the coming winter is a serious hand farmer. In good years feed—a bad habit to years the livestock



ford to waste an ounce of material raised on his farm. He must use every means possible to realize on what may be grown. Having sufficient courage and faith to continue cultivation of a badly damaged crop may mean much. Favorable conditions later will make it possible to grow some feed from late sown catch crops such as millet, cowpeas, cane and kafir. While man has no control over weather conditions, it is up to him to sow the seed. Already rains have come locally—it may be your turn next. Be ready for it! A poor stunted crop may have small value, but if neglected will be a total loss. Investment in a silo will make it possible to save what food value has been produced. The primary purpose of a silo is to save the forage part of the crop. In a year when fodder is the whole crop, the silo is a greater necessity than in good years. It may be only a pit silo, but even this will conserve the food value of the crop grown and costs but little outside labor required.

who was fit for nothing else should become a farmer. It is becoming more and more apparent, however, that there is no occupation requiring so much brains and so much general information of every kind as the occupation of successful up-to-date farming. The farmer must not only be trained technically as to those things directly concerned with his occupation, but he must possess initiative and decision of mind as well in order to be successful in meeting the various conditions which are bound to arise.

Cornell University recently made a very careful agricultural survey of Tompkins County, the county in which the university is located. This survey went very carefully into the methods of farming practiced by the farmers of this county, determining as far as possible exactly what the various crops had cost and what net returns had been secured from growing them. The labor income, which could be credited to the ability and efforts of the owners or managers of these farms, was very carefully worked out. The educational training at the time the survey was being made was only a minor consideration, but in checking up the results, some quite re-

under consideration into groups based upon the amount of capital they had available at the beginning of their farming career. When studied from the standpoint of educational training, the same differences appeared as were shown when studied in one group. Statistics of this kind cannot help but be of interest to those interested in the education of the growing generation.

WATCH FOR SILO TRAIN.

Present weather conditions will make the silo an even more important factor in economizing the feed supply than in years when a bountiful crop could be expected. The Rock Island silo train will have much to interest you in this line.

These men from the Agricultural College will accompany the special: J. H. Miller, dean of college extension; W. A. Cochel, professor of animal husbandry; George S. Hine, state dairy commissioner; A. S. Neale, dairy specialist with the extension division; and J. B. Fitch, assistant in dairying.

The complete schedule for this train appears on page six of this issue. Be at your station at the time indicated.

FIELD FOR VETERINARIANS.

At this season of the year many a young man is facing the problem of selecting a field for his life work. To those having a liking for animals, or any inclination in that direction, the veterinarian taking his place in the community with other professional men of education and culture. In fact, veterinary medicine is but one of the specialized branches of medical science. Veterinary medicine as a science has made remarkable advances in recent years, and is rightly taking its place alongside the practice of human medicine. It is to be regretted that there is still in some quarters a tendency to deny the veterinarian the recognition to which he is entitled by training and education. During the progress of the serious horse disease last year in Kansas, hundreds of horses died as a direct result of doping them with various quack nostrums. While it is admitted that the veterinarians were unable to locate exactly the cause of the disease, many horses might have been saved if their instructions had been in any profession offers great possibilities. The State of Kansas has at the present time \$255,166,533 invested in live stock, and with the constant advances being made in this line there is a continually increasing demand for properly trained men to care for them. The day of the country "hoss" doctor has passed. The modern veterinarian is carefully followed as to the care of the sick animals.

Primarily the veterinarian's function is to care for the health and welfare of the domestic animals. Much larger demands, however, are being made upon him. The public health is in constant danger from the contamination of milk and other food products. The transmission of such diseases as tuberculosis, typhoid fever, scarlet fever and diphtheria, can oftentimes be traced directly to the handling of animal food products. Statistics show that fully 20 per cent of child tuberculosis can be traced to milk from tubercular cows. The rendering of this larger service to mankind in the prevention of disease through the development of methods of sanitary control is commanding the services of many of our most highly trained veterinarians at the present time. This field is broadening so rapidly that it is impossible to secure a sufficient number of properly trained men to handle the various problems that are constantly coming up. Each year new fields of activity are being opened up along these lines until the trained veterinarian is becoming a vital factor in the life of every community. The federal government is recognizing more and more the importance of this line of work as effecting the well being of the public. With the recognition of this fact, it has taken important steps to improve the methods of teaching and training employed in the various veterinary educational institutions in the country and has adopted a carefully worked out scheme of inspection and classification of veterinary schools.

The government employs at the present time seven or eight hundred trained veterinarians as meat inspectors. These men receive salaries ranging from \$1,400 to \$3,000. Forty or fifty trained veterinarians are required in the army at salaries ranging from \$2,000 to \$6,000 annually.

In the various states of the Union the importance of placing the sanitary boards on a higher plane is being recognized and great demands are being made upon veterinarians.

Unlike its sister profession, there is an abundance of elbow room for the veterinarian. In many localities in the state of Kansas farmers owning high-priced stock must go 25 to 40 or 50 miles at times to secure the services of a trained veterinarian in prescribing for this valuable stock.

To the young man who is ambitious and wishes to be an important factor in ministering to the welfare of both mankind and animals, and at the same time receive ample remuneration for his efforts, there is certainly much to interest him in the veterinary profession.

CHANCE FOR BOYS AND GIRLS

A Capable Boy and Girl Leader is of Inestimable Value to a Community

By R. E. MORGAN

THE work which I am supervising was begun more than two years ago under the direction of R. M. Cawthorn, who was our county superintendent of schools at that time. Mr. Cawthorn was keen to see the possibilities of such work in the rural schools of the country and began to enlist county teachers in this most hopeful movement for the betterment of conditions in the open country. A few teachers caught a glimpse of the opportunities of such work, though only a few, for our teachers are too often like many of our preachers, in that they are not in sympathy with country people and conditions, but want to get to a large town or city and escape the things of the farm.

When Mr. Cawthorn's term of office expired, he bequeathed this idea to his successor, O. M. Chilcott, as a sacred trust. Mr. Chilcott, being a country teacher and a farmer, was quick to catch the vision, but the greatness of the undertaking made him doubt whether such a work were possible in the schools of Jewell County. However, the idea appealed to him with increasing force until he espoused the cause of the boys and the girls in a newer and more helpful way. Agricultural contests among the young people of our rural schools became a fixed policy of the superintendent's office. It was the conviction of the superintendent that our country schools should educate their young folks in terms of country life rather than of town life; in other words, that the country school should be the farmer's friend rather than his worst foe.

Two years ago a large number of boys and girls were enrolled in contests of different kinds, such as corn growing, stock judging, baking, sewing, and the like. The best results were obtained where the teacher was most enthusiastic for such education, for it is a law that this work cannot be done without the

active help of the teacher. I hope to see the day when a country school board will not hire a teacher who goes to the country merely because she cannot stay in town. The only worthy teacher of farm boys and girls is that one who cannot endure the humdrum of the city.

As this work has grown, teachers and

would not help to extend this movement for a better type of country life. This I consented to do; that is, to give a part of my time to this work in connection with my work in the ministry.

Our superintendent called a meeting of all people who were interested in the betterment of rural life to meet at Mankato. This meeting included teachers,

gathering showed a widespread interest in this movement and a number of good people from different parts of the county undertook the task of getting the funds necessary to extend the work. The county superintendent is supervising this. The work is being extended through local leaders, the only possible hope of doing anything worth while. It is our conviction that nothing permanent can be accomplished in any community except it be done by the people of that community. The welfare of each neighborhood is in the hands of its people. We are enlisting people who are willing to give their time and money to carry on this work.

One of the most encouraging features of the work has been the institutes that different communities have held. These have generally been in the hands of the schools themselves. Several schools in a neighborhood have come together at some suitable meeting place and spent a day with their exhibits from the farm homes and schools. The boys bring corn, wheat, oats, potatoes, and the like, while the girls bring baked goods, canned goods, sewing, and such things. A program is arranged in advance for the meeting, which is usually addressed by some person from the Agricultural College, though most of it is carried on by the country people themselves. Prizes are given for the best work in stock judging, corn growing, sewing, baking, the best school exhibits, and other things. These prizes usually take the form of a trip to the state farmers' institute at Manhattan during the holidays, or a flag to a school. We do not like to give cash prizes, because that tends to commercialize the work, which means death to any movement of this kind. Some communities are now planning their first school and farmers' institute day. They all seem to feel that the future of this work lies with the public schools, consequently these gatherings will be held after the schools get well under way next fall.

THIS work which is being taken up by Mr. Morgan is of far-reaching importance. In a recent communication sent out to his boys and girls he says: "It is worth while to grow a prize ear of corn or a pure-bred calf or pig, but it is a bigger thing to grow a boy with broad shoulders, a keen eye, a firm step, a steady step, a keen mind and a pure heart. While we are raising corn and hogs, let us not forget that we are growing a life; that we are forming habits that will make us either stronger or weaker. If we want to grow the best dairy cow, we must see that cow in our mind's eye and compare her with other cows; so if we want to make a true character we need to have a type and put ourselves up by the side of others. It takes a good imagination to see the outcome of our work raising pure-bred corn or pigs or chickens, but it takes a keener imagination to see what kind of men and women we will make."

O. M. Chilcott, County Superintendent of Jewell County, has long recognized the importance of this class of work with the young people. He has boosted it at every opportunity and has been largely instrumental in organizing the work on its present basis. Here is how he introduces Mr. Morgan to the boys and girls of the county in a circular letter which he has recently sent out:

"There is a big-hearted, whole-souled fellow named Riley E. Morgan in this county whom I am anxious that you meet. He can do all sorts of boy stunts and is always pulling for the young people. He was the first Y. M. C. A. man at Mankato. Mr. Morgan is going to try to meet you several times this year. You will like him, you cannot help it. When you see a red-headed fellow coming up without any hat and asking for a drink of buttermilk, that's Morgan."—THE EDITOR.

parents are catching the vision and want more of it. But it is a big task for anyone to supervise, especially for an already overworked county superintendent, so Mr. Chilcott asked me if I

preachers, farmers, and anyone who was willing to render service to improve the biggest and best crop of our country, a crop as persistent as the perennial vine weed, the boys and girls. This

The Business Education

By T. W. ROACH, Salina, Kansas

A COMMERCIAL education in these times of great enterprises with their millions of capital should consist in a thorough training of the mind for not less than four years, if the education is to be given with a view of having the student thoroughly prepared to take charge of his own affairs or the large affairs of others. It will take four years of as thorough mental training and discipline as can be given on any other subject and will be more profitable than a four years' training in the classics.

However, the business college does not attempt to give this four years thorough training, but works and strives to take the untutored careless boy from the public school and give him that knowledge of bookkeeping with a sufficient mental training as will enable him to go into the bank, counting room, or office, under the direction of competent well-trained men, and there carry out that mental discipline that should bring him up to be the manager of the enterprise.

The great institutions of learning in this country have begun to recognize the value of the business education. The Universities of Chicago, of Harvard, Wisconsin, Michigan, and a number of others have put in a commercial course requiring four years of study. To graduate from this course entitles one to as much honor and credit in an educational way as though he had completed the scientific course. Most of the colleges at the present time allow a definite number of points for completing a business course, or a shorthand course, from an accredited business college. The Leland Stanford University allows six points for a shorthand education, the same to apply on any general course. Taking this as a cue, the smaller colleges throughout the country and the high schools are trying out the commercial course.

The only way that either shorthand or bookkeeping can be successfully taught is to make that subject and auxiliary subjects the only ones studied. The mind must be all absorbed in the one thing. In teaching shorthand and

typewriting, you should also teach penmanship, orthography, letter writing, and in some cases English or language instruction should be given. Every student must be made to feel that these side branches are as important as the main studies of shorthand and typewriting. Their whole attention should be given to these branches, with nothing to detract their attention whatever. In this way they will become enthused over the subjects, take great interest in them, and will accomplish much.

No pupil should be held back for another. Those who lag and get lazy should be dropped back and those who advance faster than the others should be set forward, thus encouraging diligence. In this way shorthand, typewriting and kindred branches can be sufficiently learned so that the student may do amanuensis work in from three and one-half to five months, and suffi-

cient to pass the civil service examination, or qualify as a court stenographer in from five to six months. All extra time spent on the subjects is a waste of time; not only a waste of time, but is an injury to the student, for he is learning to do things in a dilatory manner, and if he puts in two years on the subjects that should require only five or six months, the habit of indolence and carelessness that he has acquired during that time will be a great detriment to him. Besides this, if he knows that he can get through in six months or less time, and be able to get a position and be earning money, he will be more interested and work with a great deal more enthusiasm than he otherwise would. We say positively it is better for the high school to let the subject entirely alone, unless they can intelligently select a system that has made good and is making good, and can get

a competent teacher that has been a successful business man and turn the pupils entirely over to his care and let him put the student through as though they were going through a first class business college.

It is true some high schools are doing work equal to many so-called business colleges, and of course they will take the place of such schools and the so-called business schools will pass out, but if there ever was a time when the high standard business colleges, having teachers of experience as business educators, were needed to line the young people up and get them ready for business, that time is now.

There is a demand for commercial teachers, a greater demand than there is for any other class of teachers, and the supply is very small. Many are taking positions as commercial teachers who are not qualified, and at wages beyond what they are worth. If some of the bright public school teachers would take it upon themselves to lay off a year and prepare as commercial teachers, it would help this matter out very materially, and they could benefit themselves by getting as much wages in the next two years as they would have earned in the next three years at the public school work.

Taking all in all, the time has come when the business education is accepted from the highest institutions of learning in the land to the lowest. With a misconception by the majority of the people as to what constitutes the business education, and until the teachers and the school boards become educated to what constitutes a business course, the first rank business colleges will continue to have a great work to perform, and for this work they should thoroughly strengthen their forces and equipment.

The United States Department of Agriculture reports that in European Russia this year's winter wheat crop is estimated as 277,683,000 bushels, or 13.3 per cent more than last year's production, and the winter rye crop 917,168,000 bushels, or 8.9 per cent less than last year's production.



INTERMISSION PERIOD AT BOY FARMERS' INSTITUTE IN JEWELL COUNTY.—THESE BOYS ARE HAVING A GOOD TIME AS WELL AS RECEIVING SOME WHOLESOME INSTRUCTION IN AGRICULTURE.

PREPARING LAND FOR WHEAT

*Early Work Main Factor in Producing Large Yields
—July Disking and Plowing Followed By Continuous
Working Stores Moisture and Liberates Plant Food*

By

L. E. Call

TWO plots were double disked July 15. One of these was plowed August 15 and the other September 15. The plot plowed August 15 produced 29.84 bushels of wheat per acre. The plot plowed September 15 produced 27.53 bushels per acre. This is a difference of 2.31 bushels per acre in favor of the earlier date of plowing. For the best results ground that is double disked early in the summer should be plowed within a month after disking. If the plowing is postponed later than this, much of the moisture saved by the early disking will be lost by the rank growth of weeds and volunteer wheat that grow all the more vigorously after the ground has been disked. Also, if the plowing is not done before the middle of September, there is not sufficient time to prepare a firm seed bed before time for planting.

When we compare the plots that were disked early with the plots plowed at the same date but not previously disked, we find for the August plowing that the lot not disked produced three bushels more wheat per acre this season than the disked plot, but for an average of three years the early disking has increased the yield over a bushel per acre. The plot double disked in July and plowed in September produced 27.53 bushels of wheat per acre this season, while the plot plowed on the same date but not double disked produced 16.39 bushels per acre. This is an increase of 11.14 bushels per acre in favor of double disking and an increased return of \$7.71 per acre after paying for the disking. There is absolutely no doubt of the benefit resulting from double disking ground early in the season when it cannot be plowed or listed. Double disking early in the summer not only insures an increased yield of wheat, but holds moisture in the ground so that the plowing can be done later with greater ease and at less expense.

Disking is a desirable method of preparing the seed bed when used in connection with plowing, but is a poor method when used alone. In this trial the plot that has not been plowed for three years but where the seed bed has been prepared by disking just before planting, produced only 9.39 bushels of wheat, and the average yield for the past three years has been but 6.63 bushels per acre. This is not a sufficient yield to pay for the cost of production. On lighter types of soil, in the central and western part of the state, this method has produced satisfactory crops of wheat for a single season; but when the method is followed year after year it cannot be expected to equal plowing or any other good method of preparation.

LISTING.

Two methods of listing were tried in this test. One plot was listed July 15, leveled with a lister cultivator about August 1, and worked as necessary thereafter to maintain a soil mulch and to prevent the growth of weeds. The other plot was listed on the same date, left one month without being worked, then the ridges split with the lister. About two weeks later the land was leveled with a lister cultivator and thereafter worked as was considered necessary. The plot single listed produced 27.81 bushels per acre, while the plot double listed made 29.40 bushels per acre, a difference of 1.61 bushels in favor of double listing. For the first two seasons of the test single listing produced slightly more wheat than double listing. This year, however, the reverse is true. It will undoubtedly be found, as this test is continued, that the plot double listed will produce more grain than the single listed plot. When single listing is practiced, especially when the listing is done each year in the same direction, there is a tendency for the lister to follow the old lister track, leaving a portion of the soil unturned from year to year.

Listing is a good method of preparing a seed bed for wheat, providing the work is properly done. Ground can be listed more rapidly than it can be plowed, thus where a large acreage of ground is to be prepared it can be prepared earlier in the season by listing than by plowing. It is advisable, however, when listing is the general practice followed, to plow the land occasionally. The plow pulverizes and in-

verts the soil more thoroughly than the lister, and thereby puts it into better physical condition.

PLOWING.

On the field continuously cropped to wheat ground was plowed July 15, August 15 and September 15. Two plots were plowed in July, one seven inches deep and the other three inches deep. Three plots were plowed in August, all seven inches deep. One plot had been disked in July and of the other two one was worked as thought desirable throughout the summer while the other was left without working until Septem-

ber 15, when it was treated in the same manner as the September plowed plots. Three plots were plowed in September, one seven inches deep, another three inches deep, and the third, which had been double disked in July, was plowed three inches deep. The three plots were worked alike after they were plowed. Of these methods of preparation the plot plowed deep in July produced the largest yield, 34.95 bushels per acre, and as an average of the three-year trial has produced 4.71 bushels more wheat than any other method employed. The plot plowed three inches deep on this date for the last three years produced 21.57 bushels per acre, or 13.33 bushels less than the seven-inch plowing.

Of the plots plowed in August the one which was worked during the first month after plowing produced 32.83 bushels per acre, while the other, which was not worked, produced 28.80 bushels, a difference of 4.03 bushels per acre in favor of working the ground the first month after plowing. This increase in yield was secured at an additional cost of 65 cents. Of the three plots plowed in September the plot disked July 15 gave the largest yield, 27.53 bushels per acre. The plot plowed deep at this date produced 17.55 bushels per acre, while the plot plowed shallow made 16.39 bushels.

on ground that was in oats in 1912 and in corn in 1911. The ground was plowed seven inches deep in the fall of 1910, for corn, and six inches deep in the fall of 1911, for oats. Five plots were prepared upon this field for wheat. Three of these were plowed in July, at depths of three inches, seven inches and twelve inches, respectively. One was plowed on August 15, seven inches deep, and the other was plowed September 15, three inches deep. The plot plowed twelve inches deep in July was plowed with the Spalding deep tillage implement. There was practically no difference in the yield of the plots plowed at different depths in July; the three-inch plowing produced 44.08 bushels per acre, the seven-inch plowing produced 44.66 bushels per acre, and the twelve-inch plowing produced 44 bushels per acre. The cost of preparing the land, however, was \$8.10 per acre for the twelve-inch plowing, \$4.85 for the seven-inch plowing, and \$4.35 for the three-inch plowing, leaving a return of \$27.10 after paying for the cost of preparation for the twelve-inch plowing; \$30.88 for the seven-inch plowing, and \$30.91 for the three-inch plowing.

It appears that little or no benefit results from deep plowing for wheat when the ground is rotated with other crops and when it receives a thorough

and deep plowing at least once in three years. The benefit of deep plowing as compared with shallow plowing, when each method is practiced continuously, has already been indicated and shows an increased yield for deep plowing of 13.5 bushels per acre. The plot plowed August 15 produced 3.53 bushels per acre less wheat than the July plowed plot, while the September plowed plot produced 19.16 bushels per acre less than the plot plowed seven inches deep in July. These results again emphasize the benefits secured from early plowing.

The results obtained from wheat grown in rotation compared with that grown continuously are shown in the accompanying table.

Wheat grown in rotation produced 22.51 bushels per acre more on shallow July plowed ground; 9.71 bushels per acre on deep July plowed ground; 8.33 bushels per acre more on August plowed ground, and 9.11 bushels per acre on September plowed ground, than when continuously cropped.

Training for Greater Efficiency.

Students and teachers from thirteen states are attending the summer school at the Kansas Agricultural College. It is the most successful summer session the Agricultural College has had. The enrollment of nearly 400 students is 100 more than last year. The school is particularly attractive because of its courses in domestic science and agriculture, which have a reputation as the best in the United States. It is for these courses particularly that students have entered this summer from the various states.

By sacrificing six weeks of the vacation period and attending this summer school, many teachers and principals and superintendents of the state are enabled to command much better salaries through increased usefulness. Many students take courses in order that they may add to the number of credits needed for graduation. Some of the officials in Kansas schools who are attending the hot weather sessions are S. U. Pett, principal of the Emporia High School; W. O. Gibbon, superintendent of the Halstead schools; J. P. Perrill, superintendent of the Jewell City schools; H. D. Amyx, principal of the high school at Osawatimie; T. W. Wells, superintendent of the Lucas schools; Miss Hannah Wetzig, superintendent of Riley County. Miss Mary E. Collett, an instructor in biology at the Carnegie Institute of Technology, Pittsburgh, Pa., is enrolled in the domestic science course.

He Saw No Use.

The family was much interested in having little George start to school in February, but he insisted that he was not going.

One day his grandmother said to him, "Georgie, you are going to school with sister this winter, aren't you?" "No, grandma, I'm not going to school at all. I can't read, nor I can't write, nor I can't sing, and I'd like to know what good I'd be at school."—Woman's Home Companion.



TIME AND DEPTH OF PLOWING.

	Wheat in Rotation.
July 15, seven inches deep.....	44.66 bu.
July 15, three inches deep.....	44.08 bu.
August 15, seven inches deep.....	41.16 bu.
September 15, three inches deep.....	25.50 bu.

YIELD OF WHEAT PER ACRE.

Wheat	Difference.
Continuously.	
34.95 bu.	9.71 bu.
21.57 bu.	22.51 bu.
32.83 bu.	8.33 bu.
16.39 bu.	9.11 bu.

GRAIN AND HAY

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The GRAIN AND HAY shipper will find himself handling his product in the most economical manner by consigning it to a reliable firm who wants him to become one of their regular patrons—and who will treat him so fairly and squarely that he will WANT to become one.

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Yes, sir. Get a Galloway Pumping Engine Outfit. Put it to a 90-day test on your farm. Use it to run the churn, cream separator, washing machine, pump or any small machine on your place. Then if you don't say it's the best little engine you ever saw in your life, you can ship it back. I'll refund your money and pay the freight both ways. No strings to this offer—in there! Then on top of this wonderfully liberal offer I'll save you \$25 to \$50 on the outfit. Can you beat it? Never. Write me today.

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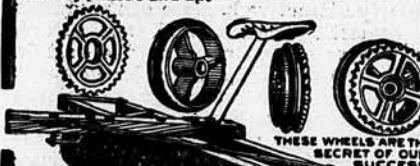
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We want every farmer and landowner to have our illustrated circular. It describes the machine, its principle and advantages over all others. It gives testimonials from many farmers proving what it will do on wheat, alfalfa and other crops. It contains valuable information on how to prepare the soil for better results. Send for this circular today, whether you want to buy or not.

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Gives masonry silos every advantage of steel silos. Rigid door frame, continuous ladder, bevel refrigerator doors, each door a unit. Write for folder.
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THE FARM



If you have no alfalfa on your farm now, by all means begin to plan for seeding some this fall. This marvelously productive forage, with its high feeding value, should be introduced upon your farm. Let nothing prevent you getting some started this fall, or increase your acreage if you have but a small amount at present.

According to figures obtained from Barton County, the growing trees in that county have increased from 75,000 to 87,000 during the twelve months preceding March 1, 1913. Apple trees lead with over 50,000 and peach trees take second place with nearly 13,000. During the above period over 17,500 bushels of fruit were produced during the twelve months, having a value of \$40,000.

Our subscriber, C. D., of Cheyenne County, Colo., asks us how best to dispose of some wheat which is about half stinking smut. Our correspondent would certainly find it advisable to carefully treat his seed wheat for the next crop. As this wheat is almost of no value as wheat, undoubtedly the most profitable way of disposing of it would be to thresh it and feed it to his steers this winter. Wheat, in order to be successfully fed, should be ground, and for that reason it would give rather poor returns if fed in straw. When this wheat is ground it can be easily sprinkled over the silage.

It is not too late yet to make plans for building that silo. Many farmers, and especially those interested in live stock, have long been convinced of the economic value of the silo, but put it off from year to year with the statement that next year they will surely build the silo. The man who cultivates 40 acres of corn and allows the fodder to go to waste will lose enough in three or four years to pay for a 100-ton silo. Now that harvest is over it is a good time to make plans and order materials for the building of the silo so as to be ready to save this great loss in feeding value. The live stock man is finding his margins in feeding stock steadily growing narrower, due mainly to the increase in land values and also to the high price of many of the concentrated feeds.

The silo is a labor-saving device as well. It will double the live stock carrying capacity of the farm, thereby conserving the soil fertility, and, properly handled, can easily return its user a high per cent annually on the investment.

School for Horseshoers.

It has been announced that beginning next winter instruction in horseshoeing will be given in connection with the veterinary department at Cornell University, Ithaca, N. Y.

This will be the first school of its kind to be established in America. In most all countries of Europe the horse-shoer, before being permitted to engage in business, must give some time to the study of anatomy of the foot and limb so that in his practice the horse may be better safeguarded against inferior practice and knowledge of foot structure and assurance given the owner that his animal is being shod by a fully qualified man.

The school to be opened at Cornell will be under the direction of the head of the veterinary department, the assistant being a graduate shoer of the German schools. At first only residents of New York State will be asked to make application for admission to the course of studies, which will include anatomy, locomotion, conformation, the treatment by shoeing of diseased hoof conditions, etc.

The importance of this movement will appeal to every horse owner. This school at Cornell should stimulate efforts along the line of placing the shoeing of horses upon a higher plane than it now occupies.

Horses at Topeka State Fair.

The horse department at the Topeka State Fair should be one of the most important departments of the fair this year. A thoroughly modern brick and cement building with a capacity for

housing 300 head, is available in caring for the horse exhibit. In looking over the premium list we note one feature which should be of special interest to the horse breeders of Kansas. Special classifications have been made and liberal premiums offered limited to Kansas-bred animals. This classification is in addition to a very strong list of prizes offered in open competition. The Percheron Society of America again offers its list of special prizes. Doctor C. W. McCampbell, Assistant Professor of Animal Husbandry at the Agricultural College, has been secured to act as superintendent of the horse department this year. This affords ample assurance that this department of the fair will be handled in a thoroughly efficient and up-to-date manner. Doctor McCampbell has done perhaps more than any other one man in the state to advance the interests of the horse breeders, and is in very close touch constantly with the horse interests of the state. He has a wide acquaintance among horsemen all over the United States and is very popular wherever known. Under his efficient management every exhibitor of horses at the Topeka State Fair is absolutely assured a square deal. The horsemen of the state should provide themselves at once with the premium list of this fair, and begin at once to make their plans to be on hand with a strong showing.

Rock Island Silage Special.

The Kansas State Agricultural College and the Rock Island Railway Company will run a "silage special" over the Rock Island lines from Kanorado to McFarland, Liberal and intermediate points, from August 2 to August 11, inclusive. The train will carry specialists from the Agricultural College to speak on silage and its uses. If you do not know "why silage keeps," they will answer the question. They will explain the value of silage as a feed and the value of the different crops for silage. They will also show how every owner of live stock pays for a silo whether he has one or not.

The train will carry exhibits of concrete, plaster, pit and other silos. These will be on flat cars so that all can see them. Silage cutters will also be shown. This furnishes a rare opportunity to get dependable first hand information concerning silage and silos.

A schedule of the train is given below. Look for the time of arrival at your own station:

SATURDAY, AUGUST 2.
Kanorado, 11:45 A. M.; Goodland, 1:05 P. M.; Brewster, 2:35; Colby, 3:50; Gem, 4:55; Rexford, 6:00.

MONDAY, AUGUST 4.
Selden, 8:00 A. M.; Dresden, 9:05; Jennings, 10:05; Clayton, 11:05; Norton, 12:25 P. M.; Calvert, 1:25; Almena, 2:20; Prairie View, 3:25; Stuttgart, 4:25; Phillipsburg, 5:25.

TUESDAY, AUGUST 5.
Agra, 8:00 A. M.; Kensington, 8:55; Athol, 9:55; Smith Center, 10:55; Bel- laire, 12:00 M.; Lebanon, 1:00 P. M.; Esbon, 2:00; Otego, 2:55; Mankato, 3:55; Montrose, 4:55.

WEDNESDAY, AUGUST 6.
Formoso, 8:00 A. M.; Courtland, 8:55; Scandia, 9:55; Rydal, 10:50; Belleville, 11:45; Cuba, 12:55 P. M.; Agenda, 1:50; Clyde, 2:50; Clifton, 3:50; Morganville, 4:50; Clay Center, 5:50.

THURSDAY, AUGUST 7.
Broughton, 8:00 A. M.; Bala, 8:55; Riley, 9:55; Keats, 10:55; Zeandale, 12:15 P. M.; Wabunsee, 1:10; McFar- land, 2:15; Alma, 2:35; Alta Vista, 3:55; White City, 5:10; Herington, 6:30.

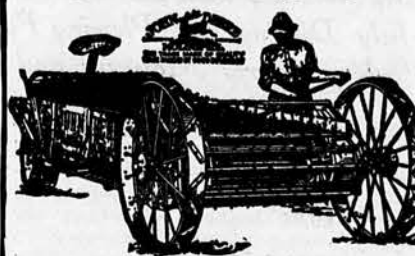
FRIDAY, AUGUST 8.
Ramona, 8:00 A. M.; Tampa, 9:00; Durham, 10:00; Canton, 11:15; Galva, 12:15 P. M.; McPherson, 1:20; Grove- land, 2:20; Medora, 3:20; Hutchinson, 4:40.

SATURDAY, AUGUST 9.
Partridge, 8:00 A. M.; Arlington, 9:00; Turon, 10:20; Preston, 11:20; Pratt, 12:35 P. M.; Wellsford, 1:50; Haviland, 2:45; Greensburg, 3:55; Mullinville, 5:00.

MONDAY, AUGUST 11.
Bucklin, 8:00 A. M.; Minneola, 9:30; Fowler, 10:35; Meade, 11:40; Plains, 12:55 P. M.; Liberal, 2:45.

John Deere Spreader

The Spreader with the
Beater on the Axle



The Low Down Spreader with the
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Here's your chance to get a low down spreader in which the advantage of big drive wheels has not been sacrificed for the low down feature.

The John Deere Spreader has revolutionized the spreader business. It is as much an improvement over the ordinary manure spreader as the modern binder was over the old-style reaper. Some of its good points are:

The Beater

And all its driving parts are mounted on the rear axle. Power to drive it is taken from the rear axle through simple gears like those that have been used on horse-powers for many years. This construction is patented. You cannot get it on any other spreader.

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Clutches, chains and adjustments; in fact, some two hundred parts in all, are entirely done away with. To throw the machine into operation, move the lever at the driver's right back until the finger engages a large stop at the rear of the machine.

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Together with the simplicity of the machine itself, make the John Deere Spreader light draft. There are many more reasons that have helped to make the demand for John Deere Spreaders greater than all those interested in the spreader business thought possible. These features are fully discussed in our spreader book.



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Don't need any help to push off the load. This sweep fitted with an automatic push-off attachment saves one man's work every day that it is used.



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THE CLIPPER WINDMILL & PUMP CO.
TOPEKA, KANSAS.

These Japanese characters translated into English mean: "Two Necessities in Every Home."



Kyohei Inukai is a Japanese artist. He was born in Japan—educated in America. Inukai's fame will be world-wide in the not far future because Inukai artistically is a wonderful product of the Orient. The example of his work shown on this page, illustrates his directness of vision in voicing the message of Montgomery Ward & Company's Catalogue. When asked to convey through his art the idea behind the great Ward book of bargains, he sent in this drawing and over it he wrote in Japanese and English these words:

**"Two Necessities
In Every Home"**

Everybody knows that the first necessity of every home is a Baby—a boy or girl, or a bunch of both. The Baby is the monarch absolute of every fireside where he sets up his throne and goes forth with ruthless hand to slay a fond mother's ribbons and put dents in Daddy's derby. How much more you feel the responsibility of home-keeping when the little fellow comes—How much more you appreciate the things that help the home, that beautify the home, that economize for the home—that help the home to prosper—for Baby's sake.

Yes, you deeply, fully lovingly appreciate that other necessity, the big, complete, varied, serviceable, convenient Saving Book of Ward's—the Catalogue of 1913—which is a boon to baby, because—

It helps father's money to go further—

It helps mother to get more of the things she wants—

It helps the home because it contains the things, the home ought to have at prices that mean Economy in the home.

In a thousand pages—a veritable wonderland of bargains—it spreads out before you all that you need, all that you can use, with a full measure of honesty

and prices so low that they double and triple the purchasing power of every purse. This Catalogue of 1913 is the triumph of 40 earnest years of service—to several generations of thousands of families—now extending to millions a complete shopping guide to the best merchandise of the world. The more you use it, the more you will become attached to it, the more it will prove a positive necessity in your home.

Although these many years, the work of thousands of people and hundreds of thousands of dollars have been necessary to make this great Catalogue of 1913 possible, yet it costs you not a penny. Its helpfulness, its economy are yours just by cutting out the coupon on this page, signing your name to it and mailing today.

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Because time is of greatest value on the farm at this season and the time and labor saving of the good separator counts for most.

Because the skim-milk is poorest without a separator in hot weather and often more harmful than helpful to calves and young stock.

Because the work of an improved De Laval Cream Separator is as perfect and its product as superior with one kind of weather as with another.

2nd If you have a very old De Laval or an inferior separator of any kind—

Because the losses of the poor separator from incomplete skimming and the tainted product of the difficult to clean and unsanitary separator mean most when the bulk of milk is greatest.

Because of the great economy of time at this season in having a separator of ample capacity to do the work so much more quickly.

Because an improved De Laval separator is so much simpler and more easily handled and cared for than any other, and you cannot afford to waste time these busy days "fussing" with a machine that ought to have been thrown on the junk-pile long ago.

Because the De Laval separator of today is just as superior to other separators as the best of other separators to gravity setting, and every feature of De Laval superiority counts for most during the hot mid-summer months.



These are all facts capable of prompt and easy demonstration, whether you have a poor separator or none at all. The new De Laval catalog, to be had for the asking, helps to make them plain. Every De Laval local agent stands eager to do so with a machine itself, with no obligation on your part to buy unless he does—and that to your own satisfaction.

WHY DELAY? Why put off so important a step as the use of the best cream separator, which you need more RIGHT NOW than at any other time?

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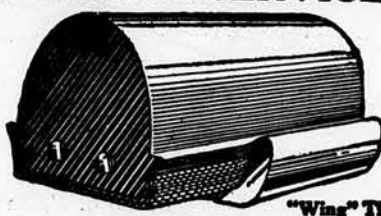
After being in the field for 14 years, Goodyear Tires are now found on more carriages than any other make. Nearly four and a half million have already been sold. And three-fourths of all Carriage builders, knowing the public preference for Goodyears, have adopted these more durable tires. Nor do you find any other tire sold by so many dealers. If at the price of ordinary tires, you want something more than ordinary service, insist on one of these most popular tires:

"Eccentric" Cushion Tire
is especially designed for lighter vehicles—runabouts, etc. Note the wire hole is below the center.



"Eccentric" Tire

This increases the wearing depth of the tire one-half, and saves you that much money. This tire stays firm in the channel. The high-grade, springy rubber used in the "Eccentric" makes it remarkably easy-riding. Always gives satisfaction.



"Wing" Tire

Note this patented "wing"—how it presses against the channel, thus preventing mud, grit and water from getting in and quickly destroying the tire base. This tire remains sound. It won't creep or get loose. Gives utmost wear. Will greatly lengthen life of your carriage. Of tough, springy rubber—exceptionally easy-riding. Send us your name on a postal today for our latest Carriage Tire Circular.

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MENTION KANSAS FARMER WHEN YOU WRITE.

DAIRY



All persons buying milk and cream on a butter-fat basis are required by law to obtain a permit. Examinations for the granting of these permits are given by State Dairy Commissioner George S. Hine, Manhattan, Kan. In order to avoid working undue hardships on the cream buyers, these examinations are held throughout the state. All persons whose permits have expired must present themselves for examination for renewals. These examinations are given at the court house beginning at 9:30 A. M. under the direction of a representative of the dairy commissioner. The schedule of time and place for the examinations is as follows:

Concordia, July 26; Topeka, July 26; Salina, July 28; Lawrence, July 29; Downs, July 30; Phillipsburg, August 1; Atwood, August 4; Marysville, August 5; Colby, August 6; Sharon Springs, August 8; Wakeeney, August 9; Russell, August 11; Hill City, August 13; Lincoln, August 15; Hutchinson, August 18; Great Bend, August 19; Ness City, August 21; Scott City, August 23; Lakin, August 25; Dodge City, August 26; Meade, August 27; Coldwater, August 29; Kingman, September 1; Wichita, September 3; Winfield, September 4; Independence, September 5; Columbus, September 9; Manhattan, first Tuesday of each month at office of State Dairy Commissioner.

Cow Testing Advantages.

I have received two letters from you asking my opinion of the advantages of the cow testing association to which I belong. I have been hoping for a rainy day on which to answer your letter, but the rainy day has not yet come.

The advantage of testing your cows is to know what the herd is accomplishing and to know what each individual cow is doing. To know these things creates interest in dairying and that is another important object. As the tester makes his rounds we are able to know what the cows of other members of the association are doing, and this creates a friendly rivalry. The net result, therefore, is a renewed interest which cannot do other than improve the results. The members of the association hold an oc-

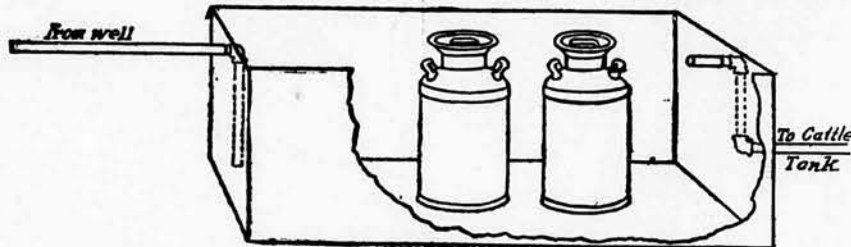
pounds of silage and 12 pounds of grain consisting of corn and cob chop or kafir chop and some bran with a pound of oil meal a day, and about five pounds of alfalfa hay a day. The cows run in the stalk field when the weather is nice.
—JOHN T. LESHER, Dickinson County.

Pure-Bred Sire Associations.

The following circular letter is being sent out by Supt. E. C. Johnson to every district and county demonstration agent in the state. The use of more organized effort along this line would give a great impetus to the live stock business. There is no method more effective for placing a county or community on the map as a live stock center than the one suggested in this letter:

To Demonstration Agents in Kansas: I believe the time is ripe for starting pure-bred sire or breeders' associations in every county where a county agent is located and I would suggest that each county agent do his best to promote such an association for his county. Through it local pure-bred sire clubs, where several farmers get together and purchase a pure-bred sire, may be started and a united effort may be made to prevent too much mixing of breeds in a county. For instance, a pure-bred sire association could be very effective in preventing the introduction of a Clyde horse into a Percheron community, a Percheron horse into a Clyde community, a Jersey bull into a Holstein community, a Holstein bull into a Jersey community, etc. In other words a club of that kind could be very effective in helping each community to specialize in stock of a certain kind and to gain a reputation for such live stock. Such a club will also be of immense aid in promoting the use of high-grade sires by exchange of animals when their usefulness in certain communities is at an end.

"Some of the county agents in this state already have been instrumental in preventing the introduction of other breeds into communities where one good breed is already generally used and liked and some of the county agents are planning to make their counties known for certain breeds of cattle; for



CREAM COOLING DEVICE SHOWING CORRECT ARRANGEMENT OF INLET AND OVERFLOW PIPES.

casional meeting and we exchange experiences and ideas, and such exchange is worth much.

Dairying is the surest thing on the farm, and the cow that will produce 300 pounds of butter fat a year will make a good profit any season. A man growing a family on a small farm should by all means follow dairying. Dairying, in fact, is about the only way to make satisfactory returns from a small farm. The best method is to put up a silo and keep as many cows as he can. Under such conditions it is necessary that each cow be profitable. To be profitable, a cow must be well fed and well watered. The cow must also be contented, and these are the principal points in cow management.

I first tried developing a herd by keeping my heifer calves and selling off my cows, as I did horses or hogs, but soon found out that this was not successful. I had young cows of unknown ability all the time. I find that if a cow is making a profit I cannot afford to dispose of her and take chances on a heifer. I have been milking grade Shorthorns, but have in the last year changed to Holsteins, and find them very satisfactory. One of my Holstein cows has her second calf at three years and figures 48 pounds of butter fat in one month on first test. I bought two Jersey heifers in February, but they are not so satisfactory. I think, though, that they may be too young, and may be all right another year.

I fed during the winter about 30

instance, Montgomery and Leavenworth counties very probably will be known as Holstein counties, as the predominating dairy breed in these counties is already Holstein. Allen County for the same reason probably will be known as a Jersey county, as the predominating breed there apparently is Jersey cattle and there seems to be a liking for that particular breed in that county.

"I believe specialization of this kind will make it easier for those who wish to get pure-bred sires to obtain them, will make co-operative or community breeding possible and will be a distinct economic advantage in the disposal of cattle when there are any to sell. Of course before any definite work along this line is taken up the county agents should know their counties well, understand the preference of the farmers, and be sure they are not wrong in the breeds which are recommended.—EDW. C. JOHNSON, Superintendent Farmers' Institutes and Demonstrations."

A Criticism.

Our subscriber, P. H., writes to us commending the method suggested in our issue of June 28 for keeping cream cool, but criticises drawing illustrating the arrangement of pipes in the tank. His criticism of this drawing is well taken. The description of the tank is correct, however, as will be noted by referring to the article. Through some oversight the artist who prepared the drawing failed to show the arrangement of pipes properly.

New School of Agriculture Has Head.

The Agricultural College was especially fortunate in being able to pick from its corps of instructors a thoroughly competent man to head the new School of Agriculture which is to begin this fall. Harry L. Kent, who has been selected by the board of administration for this important position, might be said to have been in training for this important work for a number of years. He was born and brought up on a Republic County farm, graduating from the Belleville High School. After teaching for two years in the schools of the county he took up work in the State Normal School, graduating in 1904, acting as student assistant in the department of natural science and biology during this period. At his graduation he took a position at the branch Normal at Hays, having charge of all the science



H. L. KENT.

work and beginning the work in nature study and elementary agriculture. Five years later he was called to the Normal School at Keene, New Hampshire, his particular problem there being to develop the work in nature study and elementary agriculture. This school was just being organized at that time, and he was called upon to give a great deal of attention to supervising and directing the training school. In fact, he was called upon to assist in solving many of the problems naturally coming up in the organization of a new school. During the two years spent there Mr. Kent had an opportunity to visit and inspect many of the schools of New Hampshire and Massachusetts.

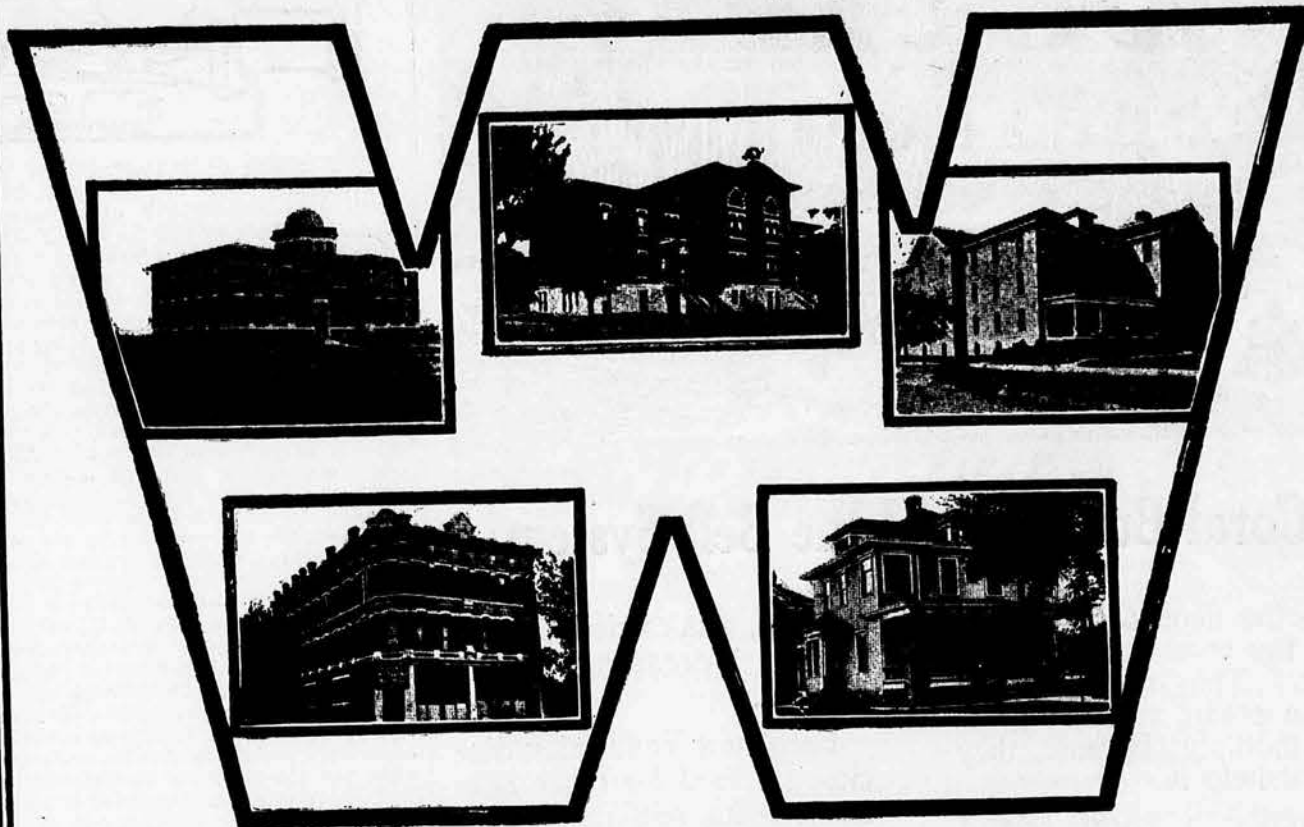
In 1911 he was called to the Agricultural College to take charge of the correspondence school work which had just been established as a part of the work of the extension division. This work was gradually developed from a very small beginning until a large number of courses are now being given, covering almost every phase of vocational work.

Mr. Kent has not been in the habit of spending his vacation periods in idleness. The summer of 1908 he spent at the University of Chicago; 1909 in studying at the Kansas Agricultural College, and in 1910 he studied at Cornell University during the summer months. He was granted the Master of Arts degree from the State Normal School in 1912, and at the commencement just passed the Agricultural College conferred upon him the degree of Bachelor of Science. Mr. Kent has taken great interest in widening the field of vocational education and has given addresses on this subject practically all over the state of Kansas.

In organizing and developing the work of the School of Agriculture, he will find an ever widening field for the exercise of his training and natural abilities as an organizer along advanced educational lines.

The Wilson-Greene School of Music.
The Wilson-Greene School of Music is the only exclusive residence music school for young ladies in Washington, D. C., and its patrons are young ladies who desire the best possible instruction in every branch of musical art and who wish to live in the atmosphere and environment so necessary for a musical education as well as enjoy the privileges of a beautiful private home where the pupils are in direct touch with the highest and best. This school is unique and worthy of the most unusual and high-class standing in the musical world of both principals, Mr. and Mrs. Greene. The vocal department is not surpassed by any music school or community in the country. The students of this school have the privilege of hearing and meeting personally many of the world's best artists, and it is included in the tuition without extra charge. In addition to the voice department the very best teachers of repute are associated with Mr. and Mrs. Greene for piano, harmony, violin, classic dancing, cello, dramatic art, physical culture, languages, and this school is affiliated with the National School of Domestic Science, where music pupils may wish to take such a course. Send for catalog and register before the enrollment is complete.

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In selecting a school it is to your interest to acquaint yourself with the moral tone and environment of the school or university which you expect to attend. The student who attends KANSAS WESLEYAN UNIVERSITY finds himself in a most moral and religious atmosphere, not only in the University, but in the city of Salina as well. The graduates of KANSAS WESLEYAN UNIVERSITY are occupying many of the best positions in schools, in the ministry, in law, business, and other professions.

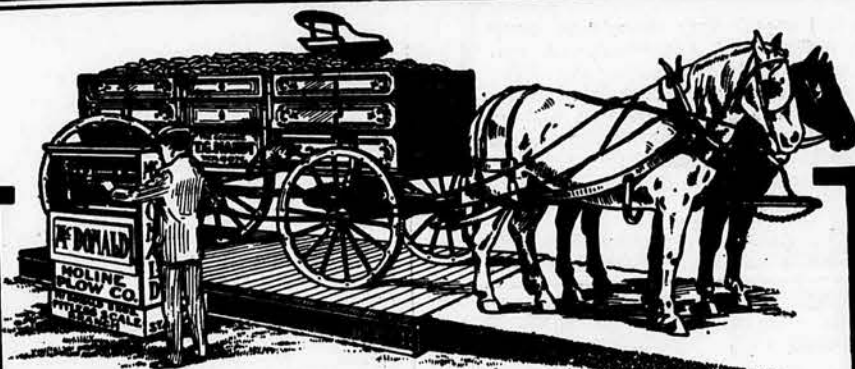
In oratorical contests and intercollegiate debates, KANSAS WESLEYAN UNIVERSITY has won more honors, according to number of students enrolled, than any other Kansas college.

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R. P. SMITH, President, KANSAS WESLEYAN UNIVERSITY, Salina, Kan.



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Finally a coral island emerges from the ocean. It collects sand and seeds, until it becomes a fit home for birds, beasts and men.

In the same way the telephone system has grown, gradually at first, but steadily and irresistibly. It could not stop growing. To stop would mean disaster.

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changes, was carried forward by an increasing public demand.

Each new connection disclosed a need for other new connections, and millions of dollars had to be poured into the business to provide the 7,500,000 telephones now connected.

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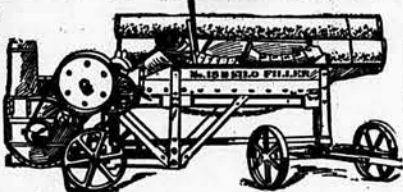
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LIVE STOCK



C. F. Stone of Peabody, Kan., who has probably bred and shown Holstein cattle longer than any other man in Kansas, made a call at KANSAS FARMER office this week. Mr. Stone still retains his interest in dairy cattle and stated while in the office that it seemed to him the present method of taking crop after crop from the soil, which was being practiced so largely in his community, would have to give way to the introduction of the dairy cow as a means of building up the depleted soils. Mr. Stone is a great believer in pure-bred live stock. He at one time paid a thousand dollars for one cow. This cow lived to be 16 years old and his farm records show her to have been the cheapest cow on the place from the standpoint of returns on the investment.

Our correspondent, D. F. E., of Otero County, Colo., writes us concerning a colt which was cut in front of the hock with barbed wire. The wound has not been healing properly, proud flesh forming. Cuts near the hock joint often become very serious, and it is easily possible for the joint to be seriously affected. A wound of this kind is invariably infected, and the natural method of healing is by the "granulation" process. This process is always accompanied by the formation and discharge of pus. Antiseptics should be used freely. Sometimes these granulations grow with undue rapidity, forming a fungus-like growth known as proud flesh. The common method of destroying this proud flesh is burning it out with a stick of lunar caustic. If this has been tried and has not been effective, it would not be advisable to experiment with the use of any such violently corrosive agents as nitric acid, as suggested by our correspondent. This wound may be of such a serious nature that no treatment other than that which would come from a competent veterinarian would be effective.

Sheep and Tariff.

Some of our sheep men are beginning to get scared for fear the reduction of the tariff on wool will put them out of business. Many thought that when the tariff was again placed on wool after the Cleveland administration it would mean a great boom to the sheep business. Such was not the case. A bunch of sheep-killing cur dogs can put a man out of the sheep business a great deal more quickly and effectively than the removal of the tariff from wool. Tariff or no tariff, sheep properly handled will remain a profitable farm animal. The appetite for mutton is increasing, and it is from the standpoint of meat production that the sheep business must be carried on. There is really no good reason why a change in the tariff should drive the sheep from farms adapted to their production. The farmer himself can always consume a certain portion of mutton at home, and this local consumption can undoubtedly be increased if other meats remain high in price. At the present time mutton is the lowest-priced meat food on the market.

Sheep Profitable in Russell County.

We handle Hampshiredown sheep—a large, black-faced mutton sheep—on Paradise Dell Farm. Our feed consists of corn fodder with corn on alfalfa hay and medicated salt, the best combination on earth. We raise sheep principally for breeding purposes and usually have the lambs come in March. Owing to their rapid growth and early maturity, we have to wean our lambs about August 1 to avoid inbreeding. We have our fields and pastures fenced with 32-inch woven wire fence at 16 cents a rod. At weaning time we separate our lambs and turn them into the cornfields out of sight and hearing of their mothers for about two weeks. The ewe flock is then sorted over and the culls are thrown in the corn with the lambs for the feeding process.

We are located in Russell County, Kansas, where the wolves are thick, but during the five years we have handled sheep we have never had a single one caught nor had a wolf inside our fences. They regard a woven wire fence as a trap and stay out unless forced over by a pack of hounds.

There are only two kinds of weeds growing on our farm that the sheep will

not eat—the milk weed and the bull nettle. We have a large creek running through our ranch, and every spring when the creek rises it brings down a world of cockle burrs which sprout and grow, but we never have a burr mature, while our neighbors above and below us are overrun with them. My sheep have converted my once weedy pasture into a mat of buffalo grass. They have cleaned my fields of noxious weeds and converted them into mutton and scattered the manure free of charge where they run. At present prices for wool, the fleece easily pays the keep of the flock. I love my sheep and would like to see the industry spread out over this, our great state of Kansas.—E. S. TALIAFERRO.

Renting Live Stock Ranch.

Our subscriber, R. O. C., Clark County, who has been a constant reader of KANSAS FARMER for a good many years, submits to us the following proposition: He owns a cattle ranch of about 6,000 acres which is now stocked with about 250 head of cows, steers and heifers. He wishes to rent this ranch for a term of three years upon a share basis and asks for suggestions as to an equitable agreement between himself and the tenant. It would be difficult to do more than give general suggestions for the handling in this manner of such a large proposition as this cattle ranch. In a general way the owner of the ranch is placing his capital invested in the land and equipment against the labor and skill of the tenant. With such propositions it is usually incumbent upon the tenant to furnish all the labor required in handling the proposition. This should include the horses necessary, and as a rule the ordinary farming tools required. The owner should be responsible for all permanent equipment and should furnish the material for such permanent improvements in the way of fences, etc., as may be necessary to put upon the place during the term of the tenancy. Where such a partnership deal is made in the management of a live stock farm, it is the usual plan for the tenant to own a half interest in the cattle or other live stock. Where the tenant does not have a sufficient amount of capital to actually pay for such an interest in the live stock, an arrangement might be made whereby the landlord could receive interest upon the value of the live stock credited to the tenant, taking as security a chattel mortgage. Under such an arrangement the increase of live stock would naturally be divided equally between landlord and tenant. If it became necessary at any time to purchase concentrated feed from outside sources for the feeding or maintenance of such live stock, landlord and tenant should share equally the expense of such purchases. Of course there are many little details to be worked out in a deal of this kind, and there should be a thorough understanding regarding all these matters between landlord and tenant. A carefully drawn up contract would greatly facilitate a thorough understanding as to these various details. As already stated, the ownership of the horses is usually considered to be part of the labor equipment of the farm. The matter of feeding these horses must necessarily be a point to work out equitably between landlord and tenant. If the tenant desired to use brood mares as part of his work-horse equipment and raise a few colts, equitable arrangements as to how these colts are to be fed and handled must necessarily be made between landlord and tenant.

The man who is intelligent and ambitious and skilled in the handling of live stock and farm crops is often greatly handicapped in securing profitable returns from his ability by lack of capital, and on the other hand, the man with capital invested in land and equipment is often greatly handicapped because of inability to secure intelligent, efficient labor to handle this capital and equipment. Where the two can get together on equitable terms, great advantages will result to both parties.

The Kansas station found in a recent experiment that kafir silage gave \$11.12 more profit per steer than a good ration of alfalfa hay, corn fodder and grain.

RATS AND MICE

SCIENTIFICALLY KILLED BY THE NEW METHOD
A bacteriological preparation, based on the discovery of Dr. Danysz of the Pasteur Institute, Paris.

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contains the germs of a fatal disease, contagious only to rats and mice; they communicate it to one another, and ALWAYS die in the open. NOT A POISON, and absolutely harmless to other animals or to human beings. Owners of houses, grain elevators, barns, warehouses, stores, poultry houses, farms, etc., troubled with rats or mice should investigate this important discovery. In glass tubs. Price according to number. Write Dept. W.

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Slips the trash; moves the entire surface one to three inches deep, killing all the weeds. A leveler and subsurface packer. Seed-beds, listed corn and potatoes require this machine for best results. Let us explain how to save time and get better yields.

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HAY

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We want your hay business. Write us for information in regard to the market.

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Builders of

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Write for list of silos we have built. Ask our customers about them.

Poultry

Oh, my! but it is hot and dry. I pity the hen or chick that has no shade to run to.

Inasmuch as the greater proportion of an egg is composed of water, you must see how necessary it is that the laying hens should be kept supplied with an abundance of water. It should not only be fresh, but kept where it will not be in the hot sun.

Clean nests are very essential in procuring clean eggs. Change the nest material occasionally, and as a precaution against vermin, burn the discarded material that is taken from the nests.

Late-hatched chicks should have extra good care during the hot months. See that they are free from lice and have plenty of shade. Also that the older fowls do not get away with most of the feed before the feebler ones can get any. By giving such attentions to the late-hatched chicks they may come out all right.

During very dry and very hot weather—and it has been both the first half of July—fowls and chicks often become listless and droopy. They need some stimulant to overcome their lassitude. There is nothing better for this than a little raw meat or fresh ground green bones.

Severe culling of the flock of chicks will never be regretted by the fancier. As soon as you see a chick with a radical defect, dispose of it. The room that the imperfect specimens take will be appreciated by the chicks that remain. Cull out the cockerels and keep only those that give promise of being fine breeding or exhibition birds. Keep only the strong, active pullets that promise to make good layers or good exhibition birds.

Kansas Wesleyan Business College Students Get Big Wages.

In years when crops are not quite up to the standard in Kansas and other states there has always been a fine attendance at Kansas Wesleyan Business College at Salina, Kan. Its many splendid advantages, its guarantee to place its graduates of the fine combined course in positions paying \$50, \$75 or \$100 per month or better, its fine standing in the business world, its excellent equipment, brings students to it from far and near who want to increase their earning capacity. Kansas Wesleyan Business College is the official school of the Union Pacific Railway and guarantees a position to every man graduate in the telegraph school, too. The college also guarantees a position to every graduate student of its combined commercial and shorthand courses. From districts where crops are short this year President T. W. Roach is receiving numerous inquiries from young men and women who want a good business education to enable them to go to work and be sure of earning a steady salary. The courses offered are thorough and a good student can quickly complete a course and go into a paying position, sooner, in nearly every instance, than such student could complete an education to be a teacher or learn a trade. Kansas Wesleyan Business College has been the stepping stone for



T. W. Roach, President Kansas Wesleyan Business College.

many a young man or woman into independent businesses of their own. Fourteen courses are offered. The school has its own big building. President Roach, who is a most successful business man himself, has been conducting the college for 21 years, and he is known throughout the United States as a producer of young men and young women who can hold good jobs. He has been engaged in educational work all his life. The people of Salina, Kan., where the college is located, put in standing orders for the employment of many students who can do clerical, office or other work during their spare time, while going to school, and by this means many of the students earn part or all their way through college. In this issue there is a page announcement of Kansas Wesleyan Business College for this season, which it will be to your interest to read.

Fruits and Vegetables From July to June

—Thanks to Parowax



Preserve all the fresh fruits and vegetables you like—now, while they are plentiful and cheap. Seal them with Parowax and they are bound to keep. Parowax will never fail you.

Think what you will save when winter comes! Think how much better "table" you can set—how your family will devour your own home-canned vegetables, preserves and jellies.



is used as indicated in sealing jars, bottles and glasses. It's about the easiest, simplest work one can imagine. But so sealed, vegetables and fruits will keep fresh indefinitely. The Parowax way is very inexpensive. Two of the four

handy layers contained in the 16-oz. carton will seal several gallons of fruit. And what's left over will be found invaluable in the laundry. Parowax shavings in the wash boiler clean and whiten clothes, without the rubbing. A little Parowax in the starch imparts a beautiful finish in the ironing.

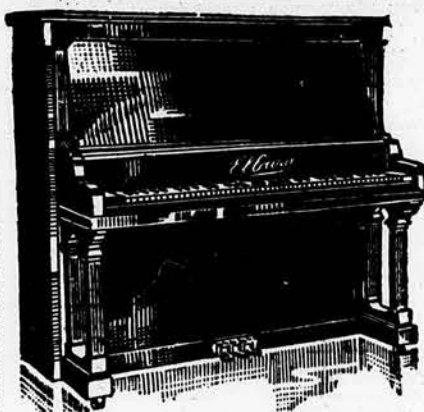
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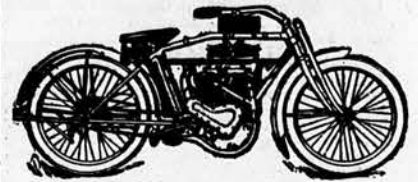
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t	d	n	m	p o l e s a f			
k	g	v	l	p o l e s a f			
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y	a	e	e	p o l e s a f			
o	o	o	o	p o l e s a f			
WORDS				WRITE (by Sound)			
at	will			Can he lead the lamb here? Go get the cream			
in, not	the			in the dairy. The rain will delay the deacon.			
a, an	can			May he go in at the gate? Lena made a good			
he	go			cake. Can he get ready in a day?			
JOINED WORDS							
will not							
in the							
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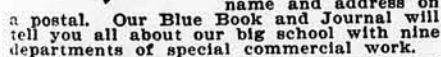
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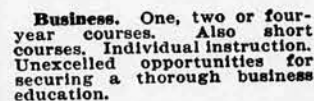
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L. L. CLARK, Meriden, Kansas.

Clinton's Herd of Big-Type Polands.

Bred sows, cholera immune, most popular big-type breeding. Bred to farrow August and September. Priced to sell. Write at once as I have only a few for sale.

P. M. ANDERSON, Lathrop, Mo.

ENOS OFFERS 20 BIG, SMOOTH, BRED GILTS.

July and August gilts by A Wonder's Equal by A Wonder, dams by Nox All Hadley, bred for August and September farrow to the noted Orphan Chief. Blood lines and quality to spare. \$35 to \$40. Only good ones shipped.

A. R. ENOS, Romona, Kansas.

BIG-TYPE POLAND CHINA PIGS

Both sexes, February and March farrow. Fifty-five head, tops from 100 head, sired by Ross Hadley and Hadley C, out of extra big sows of Expansive, Price We Know, King Mastodon and Mogul breeding. Can furnish pairs not related. Well grown out on alfalfa pasture and of the best big-type breeding. JOHN COLEMAN, Denison, Jackson County, Kansas.

CLINE'S POLAND CHINAS.

Herd headed by Tecumseh Hadley, sired by Major B. Hadley, the grand champion at American Royal, 1911, and Long King's Equal 2d by Long King, two herd boars with size and quality. My fall sale of boars and gilts October 3, 1913. Write for catalog.

J. R. CLINE, Iola, Kansas.

225 REGISTERED POLAND CHINAS FOR SALE.

Thirty-two sows bred for summer and fall; 20 fall gilts, bred or open; six fall boars, tops from fall crop; 135 spring pigs. Both big and medium type. Sell at reasonable prices with big discounts on several head. J. D. WILFONG, Zeandale, Kan. Ten miles east of Manhattan.

Gritter's Surprise Fall Boars For Sale.

Two good ones sired by Gritter's Surprise by Long Surprise. Dam of these boars is a Lady Wonder sow of the large Iowa type. They are immune from cholera and priced right. Also a few bred gilts for sale.

A. J. SWINGLE, Leonardville, Kan.

H. G. Nash's Big Boned Polands

Have a large bunch of spring pigs sired by the noted boars, Gold Medal and Hadley's Model, out of big roomy sows. Public sale October 3. Send for catalog.

H. G. NASH, Iola, Kansas.

BIG POLAND CHINA SPRING PIGS

Sired by Peter Mouw boars. Here is where you can get big-type pigs at a low price. Never before was there such a bargain offered. Write me your wants. Ben Rademacher, Box 13, Mulberry Grove, Illinois.

GREAT SON OF GOLD METAL.

Heads our herd, mated with Utility, dam of the noted \$580 litter; Colossus, O. K. Price and Gold Metal. Fine lot of pigs out of these sows, most of them sired by Melbourne Jumbo. Inspection invited.

AUSTIN SMITH, Dwight, Kan.

BARGAIN IN HERD BOAR.

First Quality, by Blue Valley's Quality. Dam, Blue Valley Ex., by Exception. Three years old and a splendid breeder. Can't use him any longer and will sell him at \$75. Fully guaranteed.

JAMES ARKELL, Junction City, Kan.

ALBRIGHT TYPE POLANDS FOR SALE.

Forty head of choice fall boars and fall gilts, bred or open, and 65 spring pigs, all sired by Cavett's Mastiff, one of the best boars now in service. Only the best of individuals offered. Inspection invited.

A. L. ALBRIGHT, Waterville, Kansas.

Merten's Big Smooth Poland Chinas

Headed by King Hadley 3d and Kansas Wonder, mated with daughters of Old Expansion, What's Ex, and Grand Look Jr. Stock for sale.

E. E. MERTEN, Clay Center, Kansas.

TWO HERD BOARS FOR SALE—One 3-year-old, a grandson of Big Hadley; one fall yearling sired by Mastiff by King Mastiff.

Priced to sell. Geo. Haas, Lyons, Kan.

TEN BIG FALL POLAND BOARS.

Four by Mogul's Monarch. Two by Long King, son of Long King's Equal. Two by Gephart. Extra good individuals at \$25 each.

J. H. HARTER, Westmoreland, Kansas.

STRYKER BROTHERS' POLAND CHINAS.

Choice boars and gilts from our show herd. Can sell all kinds of breeding stock at reasonable prices. Also Hereford cattle and standard-bred horses for sale.

STRYKER BROS., Fredonia, Kan.

Hartman Has Choice Big Fall Boars.

Eighteen summer and fall Poland China boars, by Blue Valley Jr. and Hartman's Hadley by Nox All Hadley. Length and breadth right. Prices reasonable for quick sale. J. J. HARTMAN, Elmo, Kan.

POLAND CHINA HOGS—15 fall boars and 10 fall gilts sired by the champion boar at American Royal, 1911, priced to sell reasonable.

G. M. Carnutt, Montserrat, Mo.

POLAND CHINAS—Choice pigs, both sexes, sired by Guy's Expansion 2d. Cheap for quick sale.

L. H. Grote, Morganville, Mo.

THIRTY POLAND PIGS

Either sex. Good individuals. \$15 each. Pairs also. C. S. Carruthers, Salina, Kan.

WESTVIEW JERSEY FARM

HERD BULLS—Financial Countess Lad, grand champion Jersey bull, Dairy Cattle Congress, Waterloo, Iowa, 1912, the largest Jersey show ever held in the United States. Sold for \$2,500 when 90 days old, and again as a two-year-old for \$5,000. Dam, Financial Countess 155100, the 1908 national butter champion, 13,248 pounds milk, 935 pounds 10 ounces butter.

Ruby Financial Count 87211, a grandson of Financial King, dam a Register of Merit granddaughter of Financial King; milk record of 56 pounds per day.

Herd founded on Finance, Interest and Gamboge Knight families. Cows milk, as three-year-olds, 40 to 56 pounds per day. Every cow in herd on test. No dairyman ever considered a cow beautiful unless she is a heavy producer. Constitution first, production second, beauty third.

J. E. JONES, PROPRIETOR, NOWATA, OKLAHOMA.

HOLSTEIN CATTLE

85 HIGH-GRADE HOLSTEIN HEIFERS Ranging in age from 1 to 3 years, nicely marked, good size and a part of them bred to freshen this fall. Also registered males old enough for service, and a carload of young cows of good size showing plenty of breeding and milk form, bred to calve in August and September. All tuberculin tested. F. J. Howard, Bouckville, Madison County, New York.

SUNFLOWER HERD HOLSTEINS.

Highest A. R. O. backing. The entire herd, including heifers, average nearly 20 pounds each, 7 days. More cows above 20 pounds than all other Kansas herds combined. Best sires obtainable head herd. Address F. J. SEARLE, Oskaloosa, Kan.

HOLSTEIN FRIESIAN COWS.

We have a number of fine cows and heifers (some fresh, some springers), for sale. Some new ones just received. All animals tested and guaranteed sound.

THE MERRITT DAIRY FARM, W. G. Merritt & Son, Great Bend, Kansas.

M. E. MOORE & CO.

Cameron, Missouri. A special bargain in registered young bulls, sired by our herd bull, and tuberculin tested. Females all sold at present.

Pure-Bred Registered **HOLSTEIN CATTLE** The Greatest Dairy Breed. Send for FREE Illustrated Booklets.

Holstein-Friesian Association, Box 114, Brattleboro, Vt.

PURE-BRED SELECTED HOLSTEINS.

Seventy-five to select from. Cows in milk. Choice bred heifer calves and young bulls, from the best stock in New York. Selected by us. Glad to show them.

EDMUNDS & YOUNG, Council Grove, Kan.

COOKE'S HOLSTEINS.

Cows 3 years or older, \$225 to \$600. Nothing cheaper. No heifers or heifer calves for sale. Bulls 4 to 10 months, \$125 to \$175. Mostly sired by grandson of Pontiac Korn-dyke.

S. W. COOKE & SONS, Maysville, Mo.

HOLSTEIN BRED COWS AND HEIFERS.

Eighty Head. Choice Individuals. Personally selected, Wisconsin-bred, tuberculin tested, pure-bred, unrecorded and high grade females. Recorded bulls. Grade heifer calves.

ARNOLD & BRADY, Manhattan, Kansas.

BUTTER BRED HOLSTEINS.

For Sale—Some choice bull calves. Prices very reasonable. Write me your wants today, as these bargains will not last long.

J. P. MAST, Scranton, Kan.

CORDALE FARM HERD.

Holsteins for Sale.—Two reg. bulls 1 year old in September, also four bull calves from two weeks to four months old. Prices reasonable. No females.

L. F. CORY, Belleville, Kan.

HOLSTEIN BULL CALVES always on hand, and worth the price.

H. B. COWLES, Topeka, Kansas.

HAMPSHIRE HOGS

HIGH QUALITY HAMPSHIRE. Spring boars and gilts now ready for sale. Four gilts and three boars from Mollie S 16264 and General Davis 13169.

S. E. SMITH, Lyons, Kansas.

BERKSHIRE HOGS

BERKSHIRE PIGS

Choice pigs, 10 to 16 weeks old, either sex. Sired by Robin Hood, Premier 2d, or Adam, a son of Rival's Lord Premier. Nothing but the very choicest specimens shipped. Price, registered, crated, F. O. B. here, one, \$20; two, \$35; three, \$50.

W. J. GRIST, Ozawie, Kan.

LINSOTT BERKSHIRES

Choice tried sows and fall yearlings for sale, sired by Rival's Queen Premier 114255 and Imp. Baron Compton, bred for summer and fall farrow to Robhood 19th 16595. Also 25 selected boars and gilts ready to ship, February farrow by Robhood and Commander's Majestic. Nothing but tops shipped.

R. J. LINSOTT, Holton, Kansas.

MULE FOOT HOGS

350 big-type Mulefoot hogs of all ages for sale, from champion herd of America. JOHN DUNLAP, Williamsport, Ohio.

HEREFORD CATTLE

HEREFORD BULLS FOR SALE. Choice lot, 8 to 15 months old, registered and well grown. Sired by the ton bull, Clark 238402. Out of large cows, rich in Anxiety 4th blood. Prices reasonable. Also Duroc Spring Pigs.

HOWELL BROS., Herkimer, Kan.

C. C. CATRON'S HEREFORDS. A strictly high-class herd, a number of extra good yearling bulls for sale. Will weigh 1,000 pounds. Extra quality, best blood lines of the breed. They are the breeder's kind.

C. C. CATRON, Bigelow, Mo.

RED POLLED CATTLE

AULD BROTHERS Red Polled Cattle

Bull calves for sale. Prices right. Herd headed by Prince, one of the best sons of Actor.

AULD BROS., Frankfort, Kansas.

Coburn Herd of Red Polled Cattle and

Percheron Horses. 25 extra good young bulls and 7 first class young stallions for sale at bargain prices. Also young cows and heifers.

GEO. GROENMILLER & SON, Pomona, Kansas.

RED POLLS FOR SALE.

In order to reduce the size of herd we offer choice registered cows of large frame and splendid milkers at very low prices considering quality.

RESEB & WAGNER, Bigelow, Kan.

Phillips County Red Polls and Polands.

All bulls over six months old sold. Bred cows and heifers for sale, also choice lot of big-type Poland China fall boars. Inspection invited.

Chas. Morrison & Son, Phillipsburg, Kan.

AUCTIONEERS.

Be an Auctioneer

Travel over the country and make big money. No other profession can be learned so quickly that will pay as big wages. Write today for big free catalog of Home Study Course, as well as the Actual Practice School, which opens August 4.

MISSOURI AUCTION SCHOOL Largest in the World. W. B. Carpenter, Pres., 1400-1404 Grand Ave., Kansas City, Mo.

Col. Jas. T. McCulloch Live Stock and General Auctioneer. Ten years of study and practice selling for some of the best breeders.

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LIVE STOCK AND REAL ESTATE

Auctioneer

Wellington - Kansas

R. L. HARRIMAN

LIVE STOCK AUCTIONEER

Bunceton, Missouri.

FRANK J. ZAUN FINE STOCK AUCTIONEER

Independence, Mo., Bell Phone 678 Ind. My references: America's Best Breeders, for whom I have been selling for years. GET ZAUN—HE KNOWS HOW.

Col. W. B. RYAN LEBANON, KANSAS.

Live stock and farm sales auctioneer. The man that gets the high dollar and works for you like a brother.

Col. C. A. Hawk;

Live Stock and General Auctioneer. Effingham, Kan.

Col. Will Myers

Live Stock, Real Estate and General Auctioneer. Beloit, Kansas

Col. N. B. Price

Live Stock and General Auctioneer. Also Registered Durocs. Mankato, Kansas.

JOHN D. SNYDER,

Kansas Live Stock Auctioneer. Write or wire for date. Hutchinson, Kan.

W. C. CURPHEY

Pure-Bred Stock and Big Farm Sales. Salina, Kansas.

Col. J. H. BROWN

Live Stock Auctioneer. Oskaloosa, Kan.

Col. N. E. Leonard

Live Stock and General Auctioneer. Use up-to-date methods. Pawnee City, Nebraska.

Col. Frank Regan

Live Stock and General Auctioneer. Esbon, Jewell County, Kansas.

L. R. BRADY

Fine Stock Auctioneer. Ask those for whom I have sold. Manhattan, Kansas.

Col. Jesse Howell

Live Stock and General Auctioneer. Up-to-date methods. Herkimer, Kan.

Faulkner's Famous Spotted Polands

"LEADERS OF THEIR KIND."

One hundred and fifty May and June pigs now ready to ship. Special prices: Single pig, either sex, \$35; pair, not akin, \$65; trio, not akin, \$90. They will be sold in the next thirty days.

START RIGHT WITH OUR FOREFATHERS' KIND. Mail your check with first letter. H. L. FAULKNER, Owner, Highview Breeding Farm, Jamesport, Mo.



DUROC JERSEYS

Tatarax Herd Durocs

For Sale—12 head of tried sows and mature gilts, bred to Tatarax, G. M.'s Tat Col. and Tat's Top, for September litters. Prices reasonable.

Hammond & Buskirk, Newton, Kans.

DUROC March Boars \$12 and up, by Model Again, Long Lad and Tatarax Boy. R. W. BALDWIN, Conway, Kan.

CLEAR CREEK DUROCS
Headed by Clear Creek Col., grandson of Dreamland Col. Forty choice alfalfa-raised pigs to select from. Thrifty and healthy and priced worth the money.
J. R. JACKSON, Kanopolis, Kan.

QUIVERA PLACE DUROCS.
Herd headed by Quivera 106611 assisted by M. & M.'s Col. 111095.
E. G. MUNSELL, Prop., Herington, Kansas.

CHOICE DUROC JERSEY FALL BOARS
Sired by Dreamland Col. Some herd boar prospects. Selected and priced to move them quick. Also few fall gilts bred or open.
LEON CARTER, Asherville, Kan.

THIRTY EXTRA GOOD REGISTERED DUROC SOWS AND GILTS.
Extra good ones. Popular strains. Sired by Kansas Kruger and College Lad. Bred for August and September farrow to Isen-weg's Choice. Can ship over four roads.
J. A. WIESHAR, Dillon, Dickinson Co., Kan.

TEN DUROC JERSEY FALL BOARS
Good individuals and ready for hard service. Low price of \$25 each because I am short of room. First choice with first check. Descriptions guaranteed.
DANA D. SHUCK, Burr Oak, Kan.

BIG-TYPE DUROCS.
Monarch, Colonel Wonder and Buddy strains. Plenty of fall gilts, open or bred. Fall sale, October 17.
MOSE & FITZWATER, Goff, Kansas.

GRIFFITH DUROCS.
March and April pigs, \$15.00 each. Large, rowdy, sired by Goldfinch Jr. 2d, dam by Goldie S. Write at once or come and see my herd.
H. T. GRIFFITH, Reading, Kan.

IMMUNE DUROCS—Fifty big-type sows and gilts, fall boars and spring pigs. Choice breeding and guaranteed immune from cholera. Inspection invited.
P. I. NELSON, Assaria, Saline Co., Kan.

OXFORD DOWN SHEEP

Largest flock west of Mississippi River. Fifty rams, 100 ewes for sale. All stock sired by imported rams. 140 ribbons at the Iowa State Fair in last eight years. Call on or address, John Graham & Son, Eldora, Ia.

OXFORD DOWN SHEEP.
Oxford Down Sheep—Large, hardy, prolific well covered.
J. H. WALKER, Lathrop, Missouri.

PARADISE DELL SHEEP RANCH
The home of registered Hampshire sheep, Hampshire hogs, and Barred Plymouth Rock chickens. Stock for sale at all times. Twenty choice spring rams for sale. Five miles southwest of Walden and 14 miles from Russell. Visitors welcome.
E. S. TALIAFERRO, Russell, Kansas.

OHIO IMPROVED CHESTERS

WOLFE'S O. I. C. SWINE.
Large, prolific kind, March and April boars. Gilts bred or open. Fall pigs. Prices low. Pedigrees free. Write your wants.
D. W. WOLFE, Route 2, Carrollton, Mo.

MAPLE LEAF CHESTERS

Large, smooth and prolific. Our stock and prices are right. Write us your wants. Satisfaction guaranteed.
R. W. GAGE, Garnett, Kansas.

O. I. C. PIGS. HARRY W. HAYNES,

Meriden, Kan.

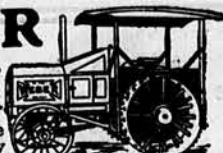
FIELD NOTES

A Most Useful College.
Our readers are reminded of the advertising of the Highland Park College in this issue. This is no ordinary college—it turns out capable men who can earn large pay, and fits them to be heads of large enterprises. Willing youths with an aptitude for mechanics are soon put through the necessary course that in only a few months requires a four-year apprenticeship. There is a home study in which 8,000 students are enrolled. It is a very good correspondence course. The terms with the college begin June 10, another September 2, and another October 13. Business and trade school courses begin every month. Expenses are reasonable. Do not forget to mention Kansas Farmer when you write. It will be a good introduction.

Kinzer Has the Kind.
Out in Graham County, Kansas, near the town of Palco, is located one of the best herds of strictly big-type Poland Chinas to be found anywhere. This herd was established more than ten years ago and in spite of the many obstacles incident to swine breeding in this part of the state, it has continued to grow and make money for its owner, J. E. Kinzer, who, by the way, is one of the best posted men in his part of the state. Mr. Kinzer is devoted to the business of producing more and better Poland Chinas. He seems to have adopted it as his life work. It is hard to estimate the good such a man is to a locality. His present herd boar, Little Orange, a son of Big Orange, is one of the great boars of the state. He is big and long and breeds true to type. He is being mated with sows of wonderful size, daughters and granddaughters of the noted A. Wonder and Price Wonder. Little Orange is assisted by the boar, Pride of Moreland, a grandson of Guy Hadley 2d. Mr. Kinzer in his advertisement which appears in this issue offers six choice fall boars sired by Little Orange and out of A Wonder dams. These boars are extra good and are being priced very low considering quality. Mr. Kinzer also has in the herd a number of fine sows tracing to the U. S. Chief family. Any one in need of a first-class boar should write at once, mentioning Kansas Farmer.

WEBER TRACTOR

FOUR-CYLINDER, 35 H. P.



The sensation of the century. Backed by Weber's 30 year's reputation. New Model. 35 Horse-Power. Lightest, strongest, most efficient tractor made. A complete power plant.

SAVE \$1,000.00

A wonderful price revolution. Tractor will pay for itself the first season. **FREE TRIAL.** Full factory guarantee. Write quick for illustrated book and amazing price offer.

AMERICAN GAS ENGINE CO.,
Dept. 700 Kansas City, Mo.

I. S. & T. H. Young's Big-Type Poles.
I. S. & T. H. Young, of Stahl, Mo., are among the young breeders that have made rapid progress in building up herds of big-type Poles, and their herds today are among the best that the writer has seen this year. They have used good judgment in buying the foundation stock for their herds, which are made up entirely of representatives of the best blood lines of the breed. The head of the herds is C Wonder by A Wonder, dam Mollie Fair. C Wonder is a big-type boar of the right kind and has few equals as an individual. He has a 9 1/2-inch bone, length 73 inches, head 74 inches, and is strictly in the 1,000-pound class. He has extra quality, extra good back, good feet, a fine head and ear, is a good breeder and was the champion boar at Des Moines in 1912. He is assisted by Big King of Stahl, a great yearling by O. K. Hadley and out of Madam Sally, she by Panorama. This youngster is an extra good individual and is making good as a breeder. They have sow herds that are among the best of the big-type herds. Their herds are made up of daughters of Missouri Chief, Dodo's Glant, Big Bill Taft, Columbia Chief 3d, Johnston Boy, Pawnee Chief Hadley, Glant King and Chief Tecumseh. Their spring pigs are early and are among the extra good lots that will be sold this year. They expect to hold a fall sale in October, and everything will be reserved for the sale. Breeders should remember this herd and watch for their sale announcement, for their offering will be one of the good ones of the season.

Kansas Farmer readers will readily recognize the accompanying cut as being from a photo of Col. W. C. Curphey, one of this state's best known and most successful live stock salesmen. Coloney Curphey has long since passed the experimental stage as an auctioneer. Last year he sold more stock at auction perhaps than any other auctioneer in Central Kansas. The year before he sold for one man alone over 200 head of horses. He sells the pure-breds for

EUREKA STOCK FARM DUROCS.

A number of outstanding fall boars sired by Wonder Chief 120029, Fond Defender 104735, and King of Ore 91957. High-class herd headers in this lot, and they are priced right. Description guaranteed. **EDW. FUHRMAN & SONS, Oregon, Mo.**

CRYSTAL HERD O. I. C.'s

Herd headed by Frost's Buster 29745 by Thea 30442. Extra lot of spring boars and gilts now ready to ship. Have some outstanding herd header prospects, also outstanding gilts. Size and high quality combined. Description of stock guaranteed. **DAN WILCOX, R. F. D. 2, Cameron, Mo.**

a large number of breeders and makes the big farm sales as well. Colonel Curphey is a farmer not only by proxy, but when the alfalfa season is on he goes over to his big farm near Carlton and takes part just as he did in the days when he was laying the foundation for the prosperity that he now

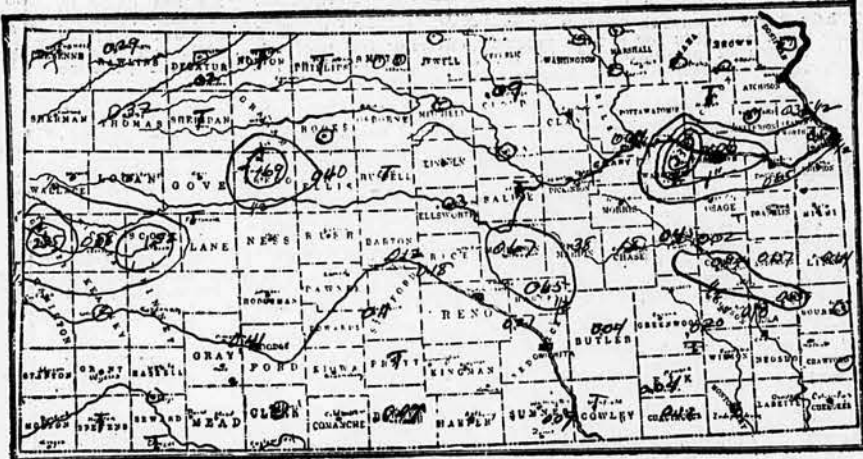


enjoys. He is one of the directors of the Holland State Bank and is a successful man in everything he undertakes. Colonel Curphey is a big, broad-shouldered, kind-hearted, sympathetic man, and out at his home near the Wesleyan University he makes his friends welcome at all times. To see him there is to know him best and most favorably.

A wad of thick paper laid under the edge of each step under the carpet will prevent it from wearing and double the lease of its life.

KANSAS CROP REPORT FOR WEEK ENDING JULY 19

Rain Chart prepared by T. B. Jennings from reports collected by the Weather Bureau.



UNITED STATES WEATHER OBSERVER'S REPORT BY COUNTIES.

A change will be noted in the map. The rainfall in inches is plainly inserted for each station and all shading omitted.

Allen—Terrifically hot and dry. Crop suffering greatly. Rain reported north of here Friday night.
Anderson—Corn damaged 50 per cent. Pastures dried up. Heat terrible.
Barber—Early corn burned up. Creeks and wells going dry.
Barton—Corn burned up. High hot winds.
Bourbon—Week dry. Crops damaged badly.
Butler—Still dry and hot. Early corn gone.
Chase—Chinch bugs bad. Rain needed. Chautauqua—Corn suffering for rain. Stock water scarce.
Cloud—Corn crop complete loss.
Coffey—Week excessively hot. Corn suffering. Good rain Friday night.
Coville—Rain needed badly. Corn damaged 74 per cent. Alfalfa short. Third crop of alfalfa being cut.
Crawford—Corn standing heat well but rain badly needed.
Decatur—Cooler weather helping corn. If rain would come soon there will be partial crop.
Doniphan—Extremely hot, dry week. Rain needed badly. Some damage to corn.
Douglas—Wheat yielding better than expected. Fruit, pastures, etc., need moisture. Corn seriously damaged.
Elk—Corn and pasture need rain. Stock water getting scarce.
Ellsworth—Everything needs rain. Wheat yield light but good grade.
Ford—Rain needed.
Greenwood—Hot and dry. Rain needed badly.
Greeley—Plenty of feed assured. Drought is broken. Crops in well prepared seed beds stood dry spell well.
Jackson—Hot winds. Light showers in south and east parts of county. Early corn badly damaged. Chinch bugs bad.
Jefferson—Rainfall last night made weather more pleasant. Wheat yielding well. Corn needs rain. Stock water scarce.
Jewell—Crop looks fine for dry weather. No rain this week. Threshing is in progress. Seed alfalfa is extra good. Vegetable growth at a standstill. Rain needed.
Lane—Hottest week on record here.
Leavenworth—Light shower Friday night but still need more rain. Digging early potatoes—only two-thirds of a crop. Oats yield, 40 bushels. Pastures short and dry-

ing up.
Linn—Hot, dry week. Pastures short and water giving out. Corn doing pretty well.
Lyon—With drought broken there may be a big outcome to the corn. Cooler weather acceptable.
McPherson—Nice shower Friday night, but too late for most corn. Will help fodder for silos. Wheat threshing out well.
Marion—Corn badly damaged. Good wheat yields.
Marshall—Wheat threshing out well. Quality good. Pasture bad.
Mitchell—Corn badly damaged and some ruined by hot winds.
Nemaha—Hot, dry week. Cooler now and corn improved. Wheat yielding about 25 bushels as an average.
Norton—Corn, hay and pastures suffering for rain. Threshing begun.
Osage—Thunder showers and some rain. Ottawa—Dry and hot. Corn prospect bad.
Phillips—Hot, dry week. Corn needs rain badly.
Pratt—Heat broken after 13 days with temperature over 100.
Rawlins—Cooler after rain on the 18th.
Rice—Early corn past help. Everything needs rain.
Riley—Hot week. Must have rain.
Rooks—Corn and feed in bad shape. Dry and hot.
Russell—Hot winds. Need rain very bad. Pastures short.
Saline—Corn beyond help. Need rain for fodder.
Scott—Rain falling. Everybody feeling good.
Sedgwick—High temperature and hot winds. Corn practically a failure.
Sheridan—Corn burned. Grasshoppers working on corn and alfalfa.
Thomas—Corn and feed need rain. Some rain in parts of county on the 18th.
Smith—Hot, dry week. Corn is badly damaged but with rains soon would still do pretty well. Cooler end of week.
Stevens—Very dry. Little hope for anything but grasshoppers. Some say we will still have crop.
Sumner—Hot, dry week. Streams dry. Grasshoppers bad. Building silos. Corn about all killed.
Washington—Corn needs rain.
Wichita—Drouth broken. Corn a failure on account of grasshoppers and dry weather. Milo and kafir poor. Cane fair.
Woodson—Hay crop light. Corn damaged.

HORSES AND MULES

FISHER & WALKER



Of Evansville, Ind., importers and breeders of Percheron horses, also standard-bred horses and Kentucky and Tennessee jacks. All young and first-class in every detail. Prices right and your own terms on payments. Stock sold with a gilt-edge guarantee that every one is as represented. Reference, Bankers National Bank, Evansville, Ind. Branch barn at Ellsworth, Kan. **J. A. COWLES, Manager, Ellsworth, Kan.**

JACKS AND JENNETS



Large mammoth black jacks for sale, ages from 2 to 5 yrs.; large, heavy-boned, broken to mares and prompt servers. Special prices for summer and fall trade.

PHIL WALKER,
Moline, Elk Co., Kansas.

PERCHERONS

At Breeder's Prices. Eleven home-grown 3-year stallions, exact wt. 1,740 to 2,060 pounds. Broke to work, sound and with bone to spare. July 26th these and youngsters for sale. The biggest Percherons pay you best. Trains direct from Kansas City and St. Joseph.
FRED CHANDLER, Route 7, Chariton, Iowa

HOME BRED STALLIONS \$275 to \$650. Imported stallions \$700 to \$1,000, two higher. All draft breeds. Reference: Any banker in Creston. **FRANK L. STREAM,** Creston, Iowa.

EXCELSIOR SHETLAND PONIES. Registered stock, spotted and solid colored ponies for sale. Reasonable prices. **W. M. FULCOMER, Belleville, Kan.**

SHORTHORN CATTLE

10 SHORTHORN 10 BULLS 10

Sired by Double Champion and White Mystery, out of my best cows, priced reasonable. **ED GREEN, HOWARD, KAN.**

Scotch Bull For Sale

Collynie Goods 333265, dark red, calved April 8, 1909; weight 2,100; kind and gentle; sure and a good breeder. Price, \$250, or will trade for one of equal merit. **JEWELL BROS., Humboldt, Kan.**

SHORTHORNS.

Five Choice Red Bulls, 15 and 16 months old, sired by a ton bull, and of richly-bred cows. Write for description. **A. H. COOPER, Natoma, Osborne Co., Kansas.**

JERSEY CATTLE.



They Keep It Up

There are some cattle that give more milk when they are fresh than a Jersey, but there isn't any breed that gives as rich milk as

The Jersey

at as small feeding cost, nor is there any breed of cattle that will keep it up like Jerseys will, year in and year out. That's why you ought to buy Jerseys to increase your herd's efficiency. Send for Jersey facts.

AMERICAN JERSEY CATTLE CLUB
324 W. 33d St., New York

Register of Merit Jerseys

The only herd in Kansas making and keeping official records. Eighty head to select from. Cows in milk, bred heifers, heifer calves, and the finest lot of young bulls ever on the farm. All ages. Six or eight now ready for service out of cows with official tests up to 512 pounds of butter with first calf, sons of Imp. Oakland Sultan, Gambos Knight, and a son of Golden Fern's Lad. Tuberculin tested and fully guaranteed. **R. J. LINSBOTT, Holton, Kansas.**

Jersey Bull Three weeks old; drinks milk; registered and choice individual. Sired by Guinon's Eminent out of a Brown Bessie dam. Will make great bull. Must be sold right away. Low price. **Johnson & Nordstrom, Clay Center, Kan.**

WINELAND FARM JERSEYS.

One of the strongest official record herds in the west. For sale, 10 choice young bulls, sired by Imp. "Duke's Raleigh," and other good bulls. Out of cows now undergoing or having authenticated tests. Also, 25 females of different ages. **H. C. YOUNG, Lincoln, Nebraska.**

JERSEYS MUST BE SOLD SOON.

Fifty cows, heifers and young bulls, all registered. If this fine lot of cattle is not sold within a short time I will call a public sale. Watch for announcement.

S. S. SMITH, Clay Center, Kansas.

When writing advertisers, please mention KANSAS FARMER.

The Profession For The Farmer's Boy

FOR the farmer's boy, the young man who has all of his life been accustomed to handling live stock, no profession offers greater remuneration or higher honors than the Veterinary profession.

Recent laws and the general tendency toward sanitation has helped create a field for the Veterinarian that was undreamed of a few years ago. The close relation between the health of animals and the health of the human race has been realized but a short time and the demand for trained men far exceeds the supply.

The Veterinary profession offers an opportunity such as electricity offered a few years ago. Any young man who will take the course at St. Joseph Veterinary College can not help but make a success in life. Graduates do not have to waste years in building up a practice—they immediately step into big paying incomes.

The St. Joseph Veterinary College now occupies an enviable position among veterinary colleges of America. The college now complies with or exceeds every requirement of the American Veterinary Association and the United States Department of Agriculture, and graduates of the St. Joseph Veterinary College are admitted into any of the many divisions of veterinary work. The faculty of the College is composed of highly educated and trained men, whose time is at the disposal of the students. The slogan of the St. Joseph Veterinary College is "Individual Attention to the Students," and with our magnificent equipment and facilities students are assured of the best possible opportunity of securing a thoroughly practical and scientific course in veterinary medicine.

The College is located in the heart of St. Joseph, within two blocks of the banking, hotel and commercial districts.

The College has under advisement the construction of a new college building 104 by 174 feet, two stories in height, and to contain hospital, operating room, serum laboratory, biological, chemical and dissecting laboratories, class rooms, library and museum, gymnasium and offices. The building will be steam heated and every equipment for the comfort and convenience of the students will be provided. A shower bath in connection with the gymnasium is arranged for. The college expects to have this building completed by the beginning of the school year.

Good board and rooms can be had for all students within three blocks of the main college building. The cost of living in St. Joseph is from 20 to 30 per cent cheaper than in any city of equal population in America.

Street car lines run within one block of the College, connecting with all parts of the city.

EQUIPMENT.

Neither expense nor effort have been spared to equip the St. Joseph Veterinary College with the most complete and approved apparatus in order that students might have every facility for scientific study and investigation. The class rooms and laboratories are large and well lighted and consist of the following:

Biological Laboratory.

This room is 40 by 25 feet in size and is lighted by five windows with a south exposure. The students' laboratory equipment consists of individual microscopes of the Leitz pattern and are supplied with three eyepieces, 1-3, 1-6 and 1-12 objectives, iris diaphragm, Abbe condenser, flat and concave reflectors, camera Lucida for drawing purposes accompany the microscopes. Individual hematology sets are supplied students. In addition there is a dry air sterilizer, Arnold sterilizer, autoclave, large bacteriological incubator, serum centrifuge, Babcock centrifuge, revolving microtome, sliding microtome, Berkfield filter and several hundred mounted specimens for sectioning. The laboratory is supplied with water and gas, and students are supplied with individual lockers in which to keep their laboratory sets.



F. W. CALDWELL, D. V. M., Dean St. Joseph Veterinary College.

OPPORTUNITIES FOR THE VETERINARIAN FIELD OF THE PRACTITIONER INCREASING.

The value of the live stock of the country aggregates an enormous sum and is constantly increasing. This is also true of the individual animal. As a country becomes more densely settled the quality of the live stock must be improved, and the value necessarily enhanced. Men thoroughly trained in the symptoms and treatment of animal disease are increasing in demand. The public health as well as the health of the live stock of the community requires men trained in the suppression of infectious diseases of animals. The College-trained Veterinarian is best fitted for this work.

General Practitioner.

There is no branch of the profession which offers more attractive opportunities for the Veterinarian, or one the remuneration of which is greater than the field of the general practitioner. Innumerable localities are without a college-trained veterinarian. We are daily in receipt of inquiries for Veterinarians to locate in certain sections. The returns from this branch of the profession will range from \$2,500 to \$7,000 per year, and this for a man recently entering the profession. We can furnish the names of graduates of the St. Joseph Veterinary College whose practice amounted to \$500 the first month after graduation.

Federal Veterinary Inspectors.

The Federal Government employs a large and ever-increasing number of veterinarians as inspectors. Appointment is by examination, a course in the St. Joseph Veterinary College fitting one to readily pass this examination. The salary is \$1,400 a year upon entering the service and promotion each two years in the service.

U. S. Army Veterinarian.

The United States Army, as well as the armies of foreign countries, employs a large number of veterinarians to look after the health of horses belonging to the service. The salary at the beginning is \$1,700 per annum, with additional allowance for house rent.

Veterinarians in the Philippine Islands.

Our insular possessions require the service of a large number of veterinarians. Admission to this branch of the service is secured by special examination.

Teachers in Veterinary and Agricultural Colleges.

Colleges in this country and abroad demand many men to assist in the advancement of the science. Recently a South American country advertised in the United States for a large number of veterinarians to teach in their colleges, and offered \$2,000 gold per annum, with abundant opportunities for advancement.

City Inspectors.

Modern veterinary colleges give a more thorough course in meat, milk, dairy and food inspection than do any other schools, and progressive cities invariably have one or more veterinarians engaged in inspection. Most states require the services of from one to several veterinarians as food inspectors and state veterinarians. Salaries average \$1,200 to \$4,000.

Managers of Stock Farms.

Farms and estates are constantly increasing in size, and there is a growing demand for men and managers who are qualified to handle all phases of stock breeding. Again, the veterinarian is the man looked to as best fitted for this work. Salaries, \$1,000 to \$1,500 per year.

Chemistry Laboratory.

This room is equipped with laboratory tables with lockers attached and has water and gas with connection for each student. A full set of reagents and students' paraphernalia is supplied each student. There is also a large hood with glass front to facilitate experimentation.

Dissecting Laboratory.

This room is 40 by 38 feet in size and has four windows and two large skylights which supply students with an abundance of light for the most delicate dissection. Numerous skeletons of various domestic animals, both mounted and unmounted, are supplied for the benefit of the students. Abundance of dissecting material is supplied at all times.

Operating Room.

This room is arranged in the form of an amphitheater, with raised seats to enable students to secure an unobstructed view. The operating floor is of concrete and the room is equipped with a Simplicity equine operating table and a Simplicity canine operating table and stocks for standing operations.

Hospital.

The hospital is large, light, well ventilated and has stall room for thirty patients. It is at all times filled with a large variety of cases, of which students are required to keep daily records. The small animal hospital has kennels for a large number of animals and a large variety of cases are here presented for study.

Class Rooms.

The class rooms are large, well lighted and furnished with comfortable seats. Interesting exhibits and specimens are at all times available and are largely made use of by instructors for demonstration purposes.

STUDENTS' WORK.

Many students desire to find some employment and thus assist in meeting their expenses. Such students are given the assistance and encouragement of the College, and a committee of the Students' Y. M. C. A. will assist students in securing employment. However, the course of study of the St. Joseph Veterinary College is intended to occupy the student's entire time, and work should not be considered by students if it is to be performed at a sacrifice of his studies.

SOCIAL FEATURES.

The genial and wholesome hospitality of St. Joseph is a feature well known by all who have visited St. Joseph or come in contact with St. Joseph people. No city can boast of a more generous spirit accorded the stranger within her gates.

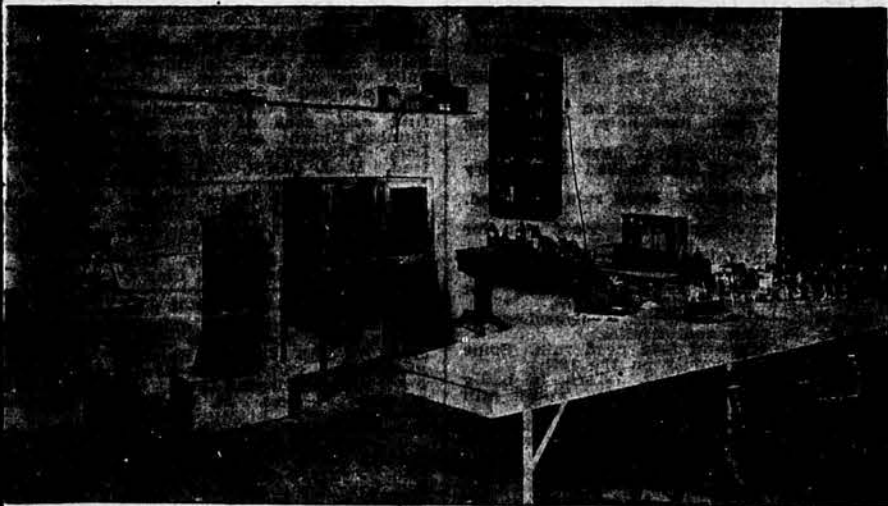
Every principal Christian denomination is represented in St. Joseph. Her churches are noted for beauty of structure and hospitality accorded to strangers. The ministers of the city frequently meet with the students and lend every assistance in maintaining and elevating the atmosphere of the college.

The students of the St. Joseph Veterinary College maintain a College Y. M. C. A. organization, which meets once each week. Student members of the Y. M. C. A. have access to the building of the St. Joseph Y. M. C. A., a magnificent new building, and this privilege includes the baths, swimming pool and gymnasium work under a trained instructor. There are eighty dormitory rooms in the Y. M. C. A., where students may secure modern, light and well ventilated rooms. The students of the St. Joseph Veterinary College do not maintain any secret organizations.

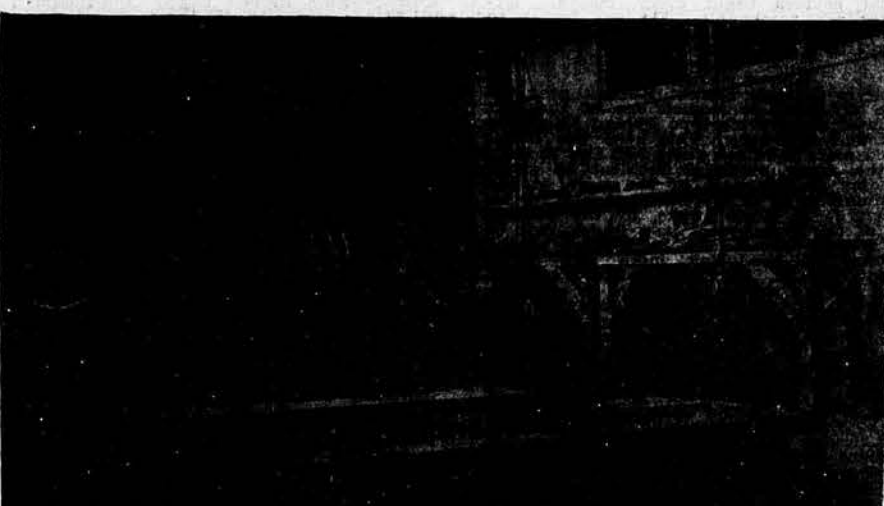
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Sit down NOW and write for catalog and further information regarding St. Joseph Veterinary College. Do not delay. Even since the above was written the Government has provided laws that will create a still greater demand for veterinarians. Just address

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