FOR THE IMPROVEMENT

OF THE FARM AND HOME

olume 49, Number 29

TOPEKA, KANSAS, JULY 22, 1911. Established 1863. \$1 a Year

UCCESS in life is measured in large degree by the efficiency with which one works. Efficiency in all efforts is brain power.

Through hard work, by persistent activity of both mind and muscle, many have written their names upon Time's scroll in undying letters. Others-many, many more-by the same hard work but without the direction of the trained mind-have pitiless oblivion as their reward.

The difference is that of education—the ability to use the best men-

tal effort where the world most needs it.

No worthy young person needs to lack education. He who fails to acquire it is cheating himself, ignoring his opportunities and denying his heritage.



"The Deep, Controlling Anxiety Of The Thoughtful Man"



The Good Road For Universal Service!

Every man's home faces on a road which connects with every other road and leads to every other home throughout the whole land.

Main highways connect with crossroads so that a man can go where he chooses easily and comfortably if conditions are favorable. But the going is not always the same; some roads are good-some are bad.

The experts in the South illustrate the difference by showing four mules drawing two bales of cotton slowly over a poor, muddy crossroad, and two mules drawing eight bales of cotton rapidly over a firstclass macadam highway. .

The Bell Telephone lines are the roads over which the speech of the nation passes.

The highways and by-ways of personal communication are the 12,000,000 miles of wire connecting 6,000,000 telephones in homes on these highways. Steadily the lines are being extended to every man's home.

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Universal Service

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Do Kansas farmers own too much nd? What is too much land in a land? Could better results be obtained from more careful efforts on a smaller acreage? Read the KANSAS FARMER prize offer on "Eighty Acres and a Home" in the June 17 issue and write your opinion about it.



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cating them."

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That's the secret—that's what YOU want to know and should know whether stay on the farm or enter business. It's a fact you positively must know if you hope to keep pace with the keen competition of today.

By years of hard work, untiring effort and close study we have discovered this cret. It's fully explained in our FREE booklet "Success." Write for it now get started before it is too late.

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POWER, Director FRANK A.

KANSAS FARMER

LE DITORIAL

Not in y
for "getting

FOR BETTER FARM LIFE. a speaking of the necessity for the germent of conditions surrounding farmer's life in many sections C. S. Adams of Illinois recently that he had visited 412 farm commities in central Illinois where the was valued at from \$190 to \$250 acre and found that 55 per cent of sland was occupied by tenants and only 66 per cent of these held ges for periods of 5 years or more, many life here was not attractive. farm children were allowed but lays in school each year as comed with 146 days for the nearby children. The teachers received m \$35 to \$70 per month as com-ed with \$46 to \$150 per month for

town teachers. jut of 225 rural churches visited 77 showed any growth in the past years, 55 have stood still, 56 have and 47 have been abandoned. h church but only 125 were mems and of these only 19 per cent at-ded church services and 13 per attended Sunday school. In the richest communities only 9 per t of the people went to church. one-half the people of America live the country and from this half

me the leaders. Fighty-five ·per t of the famous people mentioned Who in America" come m the farms, and any adverse con-lons allowed to develop in the rural tricts hurts the whole nation will off its supply of leaders in mught and action.

MUMMY WHEAT.

on occasion there seems to be some who brings up the announcement the has discovered a sample of pptian mummy wheat which will place a phenomenal growth and ld, and, as he only has a few of the ries for sale he naturally comands a high price for it. This is a te pure and simple which has been posed from time to time during the forty years, but there still seem be new suckers who bite, as they at the old Alaska proposition te or four years ago. About that it was announced by some one in abo that he had discovered an aska wheat that would yield 200 shels per acre and this fraud simmediately exposed by Kansas wer. However, it was published oddcast over the country in some rights and its acid. influential journals, and is said have netted the promoters a very adsome sum in money before it was ally exposed. In that case, Kansas MER was the first and only authorto expose the graft connected with Alaska wheat. In case of the option mummy wheat, it simply as its word of caution. is a well established fact that

ho

a under the most favorable condi-ns wheat will not preserve its vity for periods exceeding ten years, any one who claims to have an Itian mummy wheat which was sattled from a tomb two or three send years old may have a rightclaim to a curiosity but he certain-has not a claim to anything of Momic value. Such wheat, if it is mule, will not grow. If it is not unle it could hardly be expected to more valuable than the improved leties which we now have as a reof all of our hundreds of years erience of selection and experitation. In either case it is safe let Alaska wheat and Egyptian mmy wheat severely alone.

* * the very best farmers kansas live on 80-acre farms and me of them have raised and educat-large families. These farmers we never owned any more land, but by have made every foot of the me 80 bring its share of the inme. They are not market gardensor may florists. Just iney are not market gallers in an arrest market gallers. Just an everyday farmers and they are succeeded. Read about KANSAS MMER prize offer on how to make an lace home.

Extra care should be taken in the resting of the field this year. Usu-lating of the field this year. Usu-lating of the field this year. Usu-lating of the field this year. lost through careless handling. That per cent will supply all the rough-a needed. Take care of the waste

With which is combined FARMER'S ADVOCATE, established 1877. Published weekly at 625 Jackson St., Topeka, Kan., by the Kansas Farmer Company. ALBERT T. REID, President. J. R. MULVANE, Treasurer. S. H. PITCHER, Secretary. Edited by T. A. BORMAN and I. D. GRAHAM.

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

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

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

KANSAS FARMER COMPANY, TOPEKA, KANSAS.

FARM BOYS' EDUCATION.

Young man,—you, who have at the close the school year, turned your back on the "little red school-house" —what are you going to do now? That's an important question—more so today than ever before.

You are not through going to school -at least so it is hoped. The educated man is the fellow who makes the biggest dent in the world these days. The battle today is one of brains more than one of brawn, much more. Extreme competition in every business and profession, and for a dozen other reasons, the trained mind—the brain that "knows how"—is the one required and sought and the one that succeeds.

Granted that you admit the necessity of an education, where to get it and the kind to get, are important considerations. Kansas and the central west has the kind of schools you need-whether you desire to become a farmer, a doctor or a lawyer. You need not select a school far from need not select a school far home-the nearer home the better.

The kind of education you need depends upon what you want. Follow your own inclination. Do not mistake the feeling that because Bill Smith is making money as a lawyer, that it's the law for you-do not mistake that feeling for your inclination. Look into yourself—start an investigation of yourself—determine what you are really fitted for-let that be your inclination. Do not make the mistake in determining your fitness. Many a jack-leg lawyer would have made great physician, or possibly a better farmer. Many a boy would have made a good mechanic is marking time on the farm. So be careful.

Many a man is a misfit in his work because his father or mother directed the course of his education and determined his calling. Parents, if the boy has a decided inclination let him follow it—don't interfere. Better a hap-py, properous farmer than a pro-fessional man desperate in his efforts to keep the wolf from the door. If the boy has no apparent and pro-nounced inclination—get busy, look into the boy, watch his habits, his talk and his thought and try to find out. Then advise with him-talk it over and decide—but regard the boy's

Do not be in too big a hurry to de-termine the boy's life work. Many times when the boy has just left country school, it's too early to know for what he is adapted. Give him a few years in high school—give him a chance to see about him—to look around, to delve into things—the

chances are he will let you know plainly what he is fitted for and wants

If the boy wants to farm, let him farm—but prepare him for intelligent farming. If you want him to farm but he doesn't show much inclination so to do, supply him with the best farm books and papers. Let him look over the agricultural experiment station, let him see up-to-date farms and talk with the best farmers and breeders. Send him a few hundred miles, if necessary, to see and investigate.

If you desire that the boy engage in the best business there is today encourage him in the direction of the farm. If he is determined not to farm and his inclination is in some other direction, he had better be in any other business he likes and in which he can be happy and contented, than on the farm or anywhere else.

But see that the boy gets an education. Education pays, not only in dollars and cents, but in satisfaction. It doesn't burn or blow away--it cannot be lost and is in itself working capital and in fact wealth.

GET SEED IN GROUND

Pastures are bare and hay will be a very light crop, but there is ample time to provide forage crops. For hogs and sheep there is nothing better than dwarf essex rape, mixed with sorghum or rye. Sow 15 pounds of rape and one third of a usual seeding or sorghum or rye.

Sorghum, cow peas, soy beans, barley and Canadian peas will make good hay if sown at once on well prepared ground. Rye makes fine fall and winter pasture.

Turnips sown July 20 wet or dry, will furnish succulent feed for horses, cattle and hogs.

The present shortage of forage crops should emphasize the necessity for a reserve supply in silos. put in a good silo, at the proper time, and in the proper manner, will keep indefinitely. it is always ready. Like souse Putting corn in a silo not only adds greatly to its feeding value, but conserves it for times like this when forage is cut short by drouth. N N N

The Rock Island wheat train is meeting with an unprecedented reception at the hands of Kansas farm-Speakers on this train are telling all about the best means of soil tilling and methods of seeding, which, together with good seed, is all there is required for increasing the wheat yield two or three times. The agricultural train is an important factor in better methods of farming.

GET A START NOW.

Not in years has the opportunity for "getting in on the ground floor" in the live stock business been so favorable as now.

The statistics show that there is an apparent shortage of at least 10 per cent in all meat producing animals in the United States, while the census enumeration shows an enormous increase in the number of people each one of whom is a possible meat consumer.

Land is growing higher in price and it no longer pays to raise scrub stock, while the profits on good stock, well handled, are sure. Permanent agrihandled, are sure. Permanent agriculture is impossible without live stock of some kind and the farmer is learning that good stock costs no more to raise than does poor, while its profits are much more certain.

Considering the price of land, of help and of feeds, there is no longer any room for the scrub on the cornbelt farm and both breeders and feeders are alive to the fact that his fato is sealed. These conditions are in fayor of the farmer who must have live stock and who would improve its quality, and this, in turn, is most favorable to the breeder. There is never any danger that the number of breeders will become too great or that their stock will glut the market. Many sections of our country have never had good stock and the farmers are awakening to its value, while in the corn belt proper, where good stock has been known so long, there has never been enough of it.

The reputation of our live stock has become so well known that breed-

ers from other countries are coming here to buy. Canada, Mexico and the South American countries have been liberal buyers of American cattle and this trade should be cultivated, while right here at home the demand is going to be more and more difficult

to supply.
With such prospects ahead and with prices as they now are the farmer has a chance that should not be overlooked. Nothing that can be grown upon a farm will "run into money" as fast as good live stock, not only because of its ready market, but because of the benefit it renders to the farm itself.

Get some pure-bred stock. Get it

now. Get busy.

In 1890 there were 509,614 children of school age in Kansas and of these 391,420, or 76.5 per cent, were enrolled and their schooling cost the taxpayers of the state \$4,972,966. In 1910 the school census was 516,061, the enrollment 389,746 and the cost \$9,812,670. In other words, the cost per pupil enrolled in the public schools in 1890 was \$12.70, while in 1910 it was \$24.58. There are now about 13,000 teachers in Kansas and about 30,000 school officers. Think on these things and see if we are getting what we need, what we must have and what we pay for in our public schools of today. * * *

The farmers whose corn fields are most likely to suffer this season are those who quit plowing just because there were no more weeds to kill. Those farmers who kept up their cultivation of the soil not only kept the corn over the dry spell but increased the yield. A single horse hitched to an old mower wheel or some other form of drag and driven down the rows will keep the soil in condition to make a crop on one-third the rainfall necessary for fields not so treated.

* * *

The silo is not an experiment. For 30 years it has proved to be an eco-nomic means for storing excellent feed. Every state experiment station in the country will indorse it as a means of economic feeding, and have indorsed it for a quarter of a century. A silo saves labor, as with it you can feed more stock in much less time than by any other means and do it much easier. You can keep twice as many cows as you are now keeping. You need a silo because with it you can make more money. The sile is now a necessity, and for you to compete with the man who has one you must have one, too.

In this age of multiplicity of words the front page feature and cartoon of the Kansas Farmer is most refreshing. Let them be continued.—E. W. Westgate, Past Master, Kansas State Grange.

COMMOM SCHOOL PROBLEMS

Our Boys and Girls The Most Important Crop on The Farm

By W. D. ROSS



W. D. ROSS, STATE INSPECTOR INDUSTRIAL TRAINING.

The first great aim of public school education should be not to make scholars out of our boys and girls, but to make of them more efficient, helpful and happy men and women. Our schools should seek above everything else to train the average child for the common life. To be sure the avenues ought to be open and the opportunities available to the exceptional child whereby he may attain to the life of distinction; but on the theory of the greatest good to the greatest number the public school must, if it fulfills its true function, be organized on the basis of the ordinary child and his life prospects.

Is it not then remarkable as well as a kamentable fact that even the most elementary principles of scientific agriculture have been so long and so completely ignored in our schools? For agriculture is the one industry of vital importance to all humanity; it is the basis of all the world's real wealth; it is the very source of subsistence itself. When consumption overtakes production, either by reason of increased population or reduced fertility of the soil, or both, the fittest alone will survive and the weak and inefficient will starve.

And is it not more remarkable and more lamentable still, when in the very nature of things the vast majority of our girls are destined to become homemakers and housekeepers, that in our schools we have tried to train them in almost everything else except in matters of sanitation, hygi-

ene and home economics?
But Kansas with her proverbial spirit of progress has come to see the relation between her schools and her life. The last legislature enacted a law providing that hereafter all applicants for county teachers' certificates must pass an examination in elementary agriculture and appropriated fifty thousand dollars to further the teaching of agriculture and do-mestic science in our high schools. Under the provisions of the latter act ninety schools have already been approved for the work by the state board of education and more will be added. Moreover intelligent farmers themselves are coming to realize that improvident impoverishment of the soil is disastrous, that to learn by experience is expensive not alone for them but for the future, that agriculture must be conducted on a scientific basis the same as any other business, and are therefore offering every aid and encouragement to this new educational movement.

With this work to be done in our high schools and with the new information and inspiration which the ten thousand teachers now taking agriculture in our normal institutes for the first time will carry with them into our country schools a new day is dawning on the farm home of Kansas.

It is not expected that every common school and rural high school will become an agricultural experiment station; but just as in law, and in medicine there is a vast body of classified knowledge which the practitioner must learn from books, so m agriculture is there a rich fund of scientific facts which if the future farmer learns in school will enable him to preserve the fertility of yet virgin soil, rehabilitate that which has already been ignorantly or wantonly exhausted and make it all produce more abundantly

than he has ever dreamed. With the large number of really excellent text books, the admirable agricultural college primers and the numerous reliable farm journals now available there is no phase of farm life which may not be studied with profit in our schools. And when there is added to this the opportunity of observation and actual experiment upon their own farms or on their own gardens which fully sixty per cent of our boys and girls enjoy there is no reason why this education may not be made practical as well as theoretical. Indeed the history of Denmark during the last forty years furnishes striking proof that this may be effectively done. At the close of her disastrous war with Frussia and Austria in 1864 Denmark found herself despoiled of her richest provinces, Holstein and Slesvig, and reduced to a few islands and "the desolate moors of North Jutland". She was then one of the poorest nations of Europe. Today she is percapita one of the richest lands in the world. The secret? A man and an

institution. The man is Captain Dalgas—the Campbell of Denmark. The institution is the Danish high school —"a kind of agricultural college peculiar to Denmark, where farmers' sons and daughters are taught history and mathematics and chemistry and the science of farming."

But it is not alone the sons and daughters of our farmers who need this work in agriculture. From the view point of common knowledge and general culture the city bred child could with pleasure and profit to himself know much more than he ordinarily does about the source and production of the things he eats and wears and uses, of the things that satisfy his needs and minister to his pleasures. And why may he not get as much of intellectual training, of mental discipline, from studying the life history, the habits and the characteristics of the plants and animals that play so important and intimate a part in his daily life as from a study of those whose Greek or Latin names he learns from the ordinary text book in botany

or zoology? Indeed from the educational side a course in agricultural botany or animal husbandry ought to probe far more effective than the usual course in collecting and analyzing plants, or in dissecting crawfish and frogs. For the great life processes are everywhere the same and when the pupil comes to see that there is an intimate relation between the things he is studying and the life he is living there will come in with new force the element of interest—pedagogically the most important element in the educative process.

But after the last word is said Herbert Spencer's definition of the purpose of education has never been improved and remains today the best argument for industrial training in our schools. "To prepare us for complete living is the function education has to perform".

It will not, however, be enough if our schools merely offer courses dealing with the scientific facts of agriculture. They must create in the minds or an increasing number of our youth an enthusiasm for farm life, the determination to become scientific farmers.

This ought to be easy to do. There is material in plenty. The dignity, the independence, the eremuneration, the comfort of rural life properly lived may easily be shown. Is not the boy who raises potatoes or cotton doing business as much as the clerk who sells them over the counter? And is not the man who produces hogs and cattle engaged in as dignified and honorable an occupation as the man who slaughters and sells them and perchance becomes a packing house magnate? True the dry goods clerk of the bookkeeper may have clean hands and wear fine linen while the farmed boy begrimes his fingers and wears a hickory shirt. But at the end of the day the city chap will be mentally and physically more fatigued than his country compeer, and he will have missed besides the life in the open, the pure air, the sound sleep the wholesome food and the appetite to eat it which the other enjoys.

Farmers are today as a class the most independent people in the world. This for the reason that they produce so many of the things they need, and what they themselves can not use their neighbors either near or farmust have. They neither have to create a demand for what they produce nor resort to the arts of the trades man to sell it. And as the years go by, and population increases, the demand for the products of the soil will necessarily be augmented and this is dependence will grow.

Add to this the fact that free land has disappeared, that the tillable sol of the country is practically all now is the hands of private owners, with more to be had except at steadily increasing prices, and we see at one that not only is the independence of the farmer constantly growing, but that with the density of population ever increasing and the amount of land forever fixed the average return to the owner from each acre must be greater with each succeeding year From the standpoint of financial reward then, there never was a time since history began when agriculture offered such inducements as it does today. Indeed if our laws remain essentially unchanged the owners of our land will become the only real monoi olists of the future, and all the work will pay them tribute.

With the advent of rural free delicities, the telephone and the automout bile the isolation and loneliness of the farm have disappeared and with most ern means of light, heat and wate service there may be added to the luries of the farm all the convenience of the city.

When our schools begin the system that the convenience of the city.

when our schools begin the systematic training of farmers and farmer wives they wil undertake a service rich in promise and in possibilite farm life offers health, independent financial reward, comfort and pease of mind to a greater number greater degree than any other occup tion can approximate. To education can approximate. To educate the same time shortens the bread it the same time shortens the bread with ends and thus serves societ at both ends and thus serves societ what better things can any systematic for the farmer in the same time shortens the bread it what better things can any systematic for the farmer in the same time shortens the bread it what better things can any systematic for the farmer in the same time shortens the bread it what better things can any systematic for the farmer in the same time shortens the bread it what better things can any systematic for the farmer in the same time shortens.

WHAT KIND OF A TRAINING

By ERNEST PHILBLAD.

The American public of the present is thoroughly alive to the importance of an education as an efficient equipment for life. In recent years the state as well as high minded individuals have given lavishly of their treasure toward the founding and support of educational institutions of all kinds, the purpose of which is to train the coming generation for life's great work. The general prosperity of the country has made it possible for a large proportion of the youth of the country to avail themselves of the opportunities offered by these institutions.

The young man or woman to whom

The young man or woman to whom the opportunity of advanced training beyond the high school comes finds himself in a dilemma as to what choice to make. He asks himself what kind of training will give him the best

equipment for his work.

Caught by the spirit that asks quick results, the short course and the technical training school are apt to appeal to him. This will bring him into active life earlier and thereby he imagines that he is saving valuable years for the real work of his life.

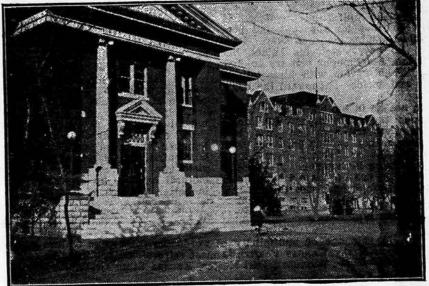
President Stryker has aptly compared the liberal training of the college with the specific work of the technical school thus: "The one process should make iron into steel and the other makes steel into tools. Specialization which is not based on liberal culture attempts to put an edge on pot iron."

In spite of the liberal expenditure of treasure by the state upon its institutions, the denominational school still retains its pre-eminence for the strong men which it has sent forth.

Recently a memorial was sent by the class of 1885 of Amherst College to the trustees of the institution. The document pleaded for the classical training of the past and urged that the number of students of the institution be not allowed to exceed 500; that teachers of recognized merit and not only scholars and investigators be retained on the faculty. The memorial emphasized the ideal of liberal culture as an asset for life and as represented by the small college. When we remember that the personnel of the class was made up of business men and professional men from all walks of life, and that it was written long after their graduation, during which time they had ample opportunity to make the test, it becomes all the more significant.

The classes in the denominational institutions are in the nature of the case smaller, a fact that guarantees the student more personal attention on the part of the teacher. Their influence for the building of character, which, after all, is the only thing that counts, is more positive. They represent the devotion of people who voluntarily sacrifice for their upkeep and the spirit of devotion prompts those who labor in them. They are in a better position to insist upon high moral ideals and eliminate vicious tendencies because of a closer supervision they can exercise over their student body.

The students come into a more intimate contact with each other and thus derive that fine training that comes from the co-operation of young people interested in high pursuits.



BETHANY COLLEGE, LINDSBORG, KAN.

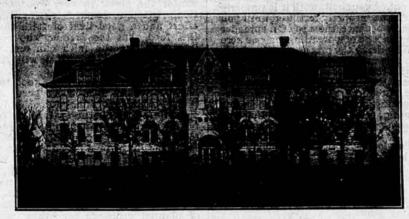
KANSAS' CHRISTIAN COLLEGES

There are fourteen of them in Kan-They have been established in every state in the union, in fact, Harard, Yale, Princeton, and Chicago ard, all founded as denominational Almost every institution in tolleges. Almost every institution in his country, aside from the tax-supported institutions, were established and for many years maintained by some branch of the Christian Church. In Kansas about half of the young people attend institutions of higher chips are in this class of college. earning are in this class of colleges. their existence and the fact that so nany of our choice young people are ttending them implies that there are me points of advantage in this class of institutions. These ought to be considered very carefully by parents and young people. Let me point out ome of these advantages.

These institutions are usually small and therefore possess all the advant-iges of the small college. It is generally conceded by educators that the mall, well equipped college is the best place for the student during his college course. The large university is preferable for his professional and technical work. In the small college the student comes into personal touch with the head of each department and is looked after personally. If he is not keeping his work up in good shape the professor has a personal conference with him and finds out what is the matter. Then the difficulty is remedied if possible. The result is that there is a smaller percentage of failures in small colleges than in the large. An education is not the result of hearing lectures by learned men, ut it is the personal touch with men of high ideals. It is inspiration quite s much as information.

There is a democarcy in a student body of three or four hundred that rarely exists in a student body of two or three thousand. Every student finds his place by his merits in the class room and the various student There is less room for cliques, fraternity factions, student politics, etc., that mar the unity and spirit of the student body. Institutions Where Culture and Refinement Are The Students Aim

By S. E. PRICE President, Ottawa University



OTTAWA (KANSAS) UNIVERSITY.

There is a better opportunity for the development of elements of lead-ership because the competition is not ership because the competition is not so keen. It is easier for a student to come to the front in debates, oratory and athletics in the small student body than in the large. Powers will be developed there that would be forever latent if the student belonged to the large student body. This is suggested by the feet that a large number gested by the fact that a large number of our public men are from the de-nominational colleges. Young people are obliged to assume leadership. In that way they discover themselves, or they are discovered by their teachers and pushed to the front. It is not always true that the one who pushes himself to the front has the strongest powers of leadership.

Again, our denominational schools must of necessity be conducted on an economical basis. I do not think that any of the tax supported institutions in Kansas are extravagant. But the whole tendency in the denominational colleges is toward economy. This is of vital importance in these times. The young person who goes out into practical life having acquired extravagant habits while in college is handicapped in a manner that will endanger his success. If he is accustomed to live within his means, to be economical, his changes for success are great-

One of the strongest advantages is in the moral and religious element. Founded by Christians, maintained by Christians, governed and controlled by Christians, the school has a religious atmosphere that cannot be created in amy other fashion. There is larger emphasis being placed upon the moral and religious element in education to-day than ever before. The true man must be moral. His morality must have a basis. The teachings of Jesus Christ will furnish him the only ade-Christ will furnish him the only adequate basis for his morality. These denominational schools teach the Bible, the pholisophy of religion, and kindred topics. One of the results is that almost all of our ministers are

from our denominational colleges.
But there are some things that
these institutions must keep constantly in mind. They ought to confine their work as a general rule to what is known as strictly college subjects as distinct from advanced professional or technical subjects. That is, they ought not to undertake post graduate work. There is a temptation to attempt more work than can be handled with good results. Leave the advanceo work to the graduate schools and do the fundamental work that properly belongs to the college. For this work teachers can be secured who have had adequate preparation. They may not have had the extended preparation that would be required in a university. But graduate work for the degree of A. M. or M. S. is sufficient, other things being equal, for the teacher of college subjects

Another vital matter in these times is that the laboratory and library equipment of the denominational college shall be such that the subjects offered can be pursued as thoroughly as in any other institution. This does not mean an outlay as large as a great university. It is research work that costs in laboratory and library equipment. This is the expensive part of the great school. But for the fundamental courses in science or history. mental courses in science or history or literature no larger equipment is required in the large institution than in the small one.

college subjects.

The denominational colleges in Kansas have recently presented to the State Board of Education articles of standardization by which each one of them is to be measured. The pur-pose of this action is to so provide that the public might be assured that any course of study offered by these institutions could be pursued just as

thoroughly as anywhere else.

Mr. Guy Morrison Walker in an address "The Source of Successful Men" points out by many facts, figures, and proofs that the small Christian address and proofs that the small Christian address head the list in production. tian colleges head the list in produc-ing the men who do things. Here is food for thought on the part of parents and young people.

The Demand for a Business Education. BY PRES. L. W. NUTTER, MANHATTAN BUSINESS COLLEGE,

We have read much concerning our areat state educational institutions, for they are great. For instance the Kansas State Agricultural College, located at Manhattan, Kansas, is the largest of its kind in the world. Likewise the other state educational institutions of the state rank among the very best.

The State Legislature two years ago appropriated over \$2,579,000, and this year over \$2,318,000, to the support of these institutions. This is fitting and proper, and is certainly much wiser and more sensible than to be combilled. pelled to pay out double that amount or the prosecution and imprisonment of those who have suffered through the neglect of the state to furnish them proper school priviliges.

Yet knowing how great these in-

tiliutions are and their enormous cost and large enrollment, State Superingedent E. T. Fairchild in his report makes the statement that more money is expended each year in private and denominational schools in the state than is expended on these great institutions we have just mentioned.

If this be true, then it is time to sit p and take notice. Look what a vast lumber of young people of our state attend business colleges every year.
Of course not all of these private and denominational schools are business colleges, but a large number are.

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You can see from the above that not only a technical education is required, but also that thousands upon thousands of our citizens see the neessity of giving their boys and girls a practical business training to fit em to take up and cope successfully

with the business world.

"If a father wishes to give his son houses, lands, legacy, better than houses, lands, hastitution where he can obtain a practical business education."— Horace

"No young lady could have a better safeguard against the adversities of forting fortune, or a better resource in time of need, than a knowledge of book-keeping and business affairs."—Harriet Beecher Stowe.

"Eighty Acres and a Home"

Contest Extended to August 1

ANY readers request more time to complete their articles and plans and the extension is granted. The contest will positively close on this date. Here are the conditions:

If you had a bank account upon which you could draw to fit up an eighty farm as a profit making proposition and a comfortable and convenient home, just how would you spend the money?

This little farm is to be your home where you can live in comfort but at the same time it must be made to pay. Put up all the buildings and fences you need, buy all the neces-sary machinery and live-stock, plant orchards and wind-breaks and make a complete home but do it all as an investment that will bring profits.

Here are the prizes:

For the best articles descriptive of how you would accomplish these results, accompanied by drawings or photographs, KANSAS FARMER will give the following prizes to be awarded by expert judges.

For the best article with illustrations, \$15 in cash.

For the second best article, \$10 in cash.

For the third and fourth best articles each a five years' subscription to KANSAS FARMER.

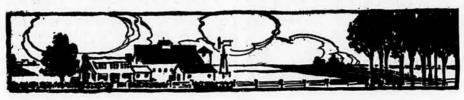
For each of the next five best articles, a three year's subscription to KANSAS FARMER. For each of the next fifteen best articles, one years' sub-

scription to KANSAS FARMER.

The articles and illustrations submitted are to become the property of KANSAS EARMER to be used as desired.

This competition will close on August 1.

All articles and illustrations must be personally addressed to Albert T. Reid, President KANSAS FARMER, Topeka,



Business Training Leads to Success. PRES. W. H. QUACKENBUSH, LAW-RENCE BUSINESS COLLEGE.

The dominant note of the twentieth century is undoubtedly industrialism. The development and perfection of telephone and telegraph systems, water and rail transportation has brought every corner of the world into intimate contact in the exchange of commodities of commerce.

This great movement has made necessary a veritable army of men and women throughout the world possessed of a special training for all the multitudinous divisions of industry. For such a man or such a woman with the ability to do a definite specific thing there never was in history the opportunity that exists today.

This is particularly true in the case of those possessing a business education. The stenographer, for example, has before him possibilities of promotion that seldom come to employes in any other capacity. Beginning at a comparatively small salary in a humble position, he quickly acquires a general knowledge of the business through his correspondence. He comes into intimate contact with the heads of departments and has an opportunity to use that knowledge in the advancement of the interest of the business and thereby secure promotion.

In every line of business the ceaseless quest goes on for better help, for men of exact knowledge who can deliver the merchant and manufacturer from the slow and wasteless process of education over which his helpers must pass. Every man in business knows that the problem most difficult of solution is the procurement of com-

The stories of men who have risen to positions of power and wealth through the medium of stenography reads like a tale from the Arabian Nights. Cortelyou, but a few years ago a stenographer in the post office department at Washington, has been successively chairman of the Republican Committee, Secretary of Commerce and Labor, Postmaster General, (Continued on page 14.)

The First Step In Scientific Farming Is An IHC Manure Spreader

YOU will never get the most out of your soil, until it is properly fertilized. And it will never be properly fertilized until you use a good manure spreader, because the use of a spreader will enable you to overcome the practice of spreading on one acrewhat should be used on two. Why delay the profits that are rightfully yours? Why not look into this manure spreader proposition at once? Learn the many reasons why thousands of other progressive farmers are having such great success with I H C Manure Spreaders.

When you examine one of these spreaders, note the extreme sim-When you examine one of these spreaders, note the extreme simplicity and great strength of the working parts; note that the beater driving gear is held in a single casting, thus there is no binding nor cutting of parts caused by the gearing springing out of alignment. Notice the roller bearing support for the apron which reduces the draft of the machine; operate the convenient levers; notice how quickly and easily the feed changing device can be shifted, and the wide range of adjustment. adjustment.

Corn King Cloverleaf Kemp 20th Century IHC

Each of these famous I H C Spreaders is simple, strong, and durable in every part. Each is instantly adjustable to spread light or heavy as your judgment tells you is best for the soil. Whether you have a large or small farm, or whether you want a spreader for orchard use-there is an I H C that will suit your requirements.

Why not see the I H C local dealer at once? Let him tell you why I H C Spreaders are so remarkably successful. Get catalogues from him, or, if you prefer, write direct for any information you

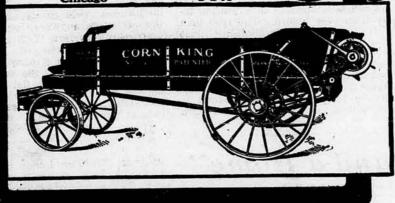
INTERNATIONAL HARVESTER COMPANY
OF AMERICA
(Incorporated)

Chicago



Service Bureau

The Bureau is a clearing house of agricultural data. It aims to learn the best ways of doing things on the farm, and then distribute the information. Your individual experience may help others. Send your problems to the I H C Service Bureau.



Mention Kansas Farmer When You Write

Better Feed=Better Stock!

-And Bigger Cash Receipts When Your Alfalfa Is Cut By

THE POWERFUL "SMALLEY!"

Saves Time, Cash and Labor! Feeds Stock RIGHT-With Properly-Cut Alfalfa! Put the WHOLE Job Up to the Wonder-Working SMALLEY Force-Feed Alfalfa Cutter!

Alfalfa mills cut alfalfa 1/8 of an inch for stock feed mixtures with the amazing "Smalley" Cutter! Alfalfa cut in short lengths is a wonderful ration for feeding hogs!

Allows tremendous economy in feeding alfalfa rations!

This machine does it many times faster than human labor, cuts it into a BETTER feed and saves enormous sums doing the job!

The "SMALLEY" handles the Wilole job alone! You just toss the alfalfa onto the powerful force-feed table. The wonderful chain feed with grip hooks shoots it along—without shoving—until it hits the roller and ZIP! the alfalfa's ready for the stock!

MALLEY ENDOE EEED



THE FEED QUESTION

For 25 years I farmed in central Kansas and was often compelled to solve the same feed problem as now confronts many Kansas farmers. I have not yet seen the year when, with due diligence, a sufficient amount of roughage could not be grown to winter the stock in very good condition. Often it requires extraordinary effort and a good deal of faith to get this feed,, but the farmer who really tries and has the faith can and will Where there's a will there

is usually a way.

During the last few days good rains have fallen in localities here and there—other spots have had only a sprinkle. If it has not rained on your farm, the safe thing is to be ready for the rain which surely will come soon. Have the extra feed crops planted and ready to start with the first rain. Don't wait for a rain before planting, but have the seed in the ground ready to grow when the first drop falls.,

The chances are very much in favor of planted crops rather than sown crops. The crops to plant are kaffir corn, sorghum, milo maize and early varieties of sweet or Indian corn. Start the lister at once listing some one or several of these crops into any ground which may be fit for planting. Don't run the lister too deep. Don't plant too much seed. Plant thin and the crop will grow the faster and will not require so much moisture.

It would be a big help if the ground could be disked and cross disked before listing. So soon as the rains come, whether the crop is up or not, tegin harrowing. Slant the harrow teeth. The object is to keep a surface muich, thereby conserving as much as possible the moisture in the ground as well as that which may fall. So soon as the seed is up, harrow again and keep harrowing until the plants are too large, then cultivate. The growth of a feed crop can by this method be torced to a considerable extent.

If kaffir corn, sorghum, milo maize, early Indian corn or sweet corn is planted as above directed, at this time and only limited rains should fall between now and August 10, a lot of feed will be grown and you will have saved the day.

In planting feed now, don't be sparing in number of acres. Plant as many acres as you can. At best you cannot get heavy crops. Figure that turee acres under present conditions will be required to furnish as much feed as one acre under normal conditions.

An effort should also be made to shorten the feeding season just as much as possible and one way to do this is to provide fall pasture and early spring pasture by seeding lasture grains right now. Rye and oats or rye and barley sown into disked ground now may, by the middle of September, or the first of October, and continuing up until cold weather, farnish a lot of pasture, and that same rye will furnish pasture next spring, thus relieving the rough feed situation a month or six weeks at each end. The oats or barley with the rye will help the early fall pas-ture. The oats, of course, will kill out during the winter, but the rye will be

Crops suggested above and planted now will not, of course, mature grain, unless the fall should be unusually favorable. It is not grain you need favorable. It is not grain , lenty of row so much as roughage. Plenty of it what you need. If good roughage is what you need. you succeed in growing the roughage, give it good care in harvesting. The usual loss in harvesting roughage in this state is tremendous. A short year will not permit such loss. The scarcer feed is, the greater the necessity for taking good care of it.

left for pasture next spring.

It is well worth while to exert every energy possible to keep your present supply of live stock. You have to sell off some surplus stock, but don't sell the mature animals. It is a whole lot easier to get out of stock than it is to get into stock. If you dispose of your cattle now you will do so at a sacrifice; it will be two or three years before you can restock your farm, and then at a greatly increased price.

There is one other thing in connection with the feed condition which deserves your careful attention and that is the sile. Should you grow a reasonable quantity of green feed this year, that roughage put into a silo and every spear of it preserved in its

natural green condition will result in giving you, not only better feed, but more feed. You yet have time to buy and erect a silo and have it ready for the feed which you hope to grow and which I believe you will grow if you exercise the necessary diligence

while thinking about the silo don't thing of it for this year only, but think of it for next year. If you should have a good corn crop next year and should fill two silos, putting up just double the amount of ensilage you will need the amount of ensilage you will need the silos. next year, you would have one siloful for use the following year in case of short pasture or in case of short roughage crops. The silo is a great thing any year. Properly handled it will absolutely insure feed.

The corn crop now growing, even though it does not ear, will make a whole lot of good feed if placed in a silo. I am daily receiving inquiries asking if immature corn can be successfully siloed. The immature com will make ensilage. My own experience in handling immature corn justifies this conclusion. However, I wanted a verification and telephone the Kansas Experiment Station and Professor Reed advised me that by all means the immature corn should be placed in the silo, that by so doing its fullest feeding value would be re arized and that all fodder could in this way be saved. Professor Reed also stated that the silo provides the best means for saving immature kaffir corn, sorghum or milo maize. Let these immature crops partially cure on the ground before being cut. If these crops are cut when the lower blades begin to burn a little, they will make the best ensilage. The ensilage should be well tramped and thorough ly packed. Mature ensilage is heavier and, while it should be tramped it wil settle much as a result of its own weight.

The forage crops now growing will make a lot of good feed and the slo furnishes the best and about the only means of saving everything and give ing you the greatest feeding value they have. Remember that the silo will enable you to feed these crops in a condition almost identical with the green fodder. You know what an armful of green corn will do for

the old cow.
The New York Experiment Station reports that almost anything green can be successfully placed in the silo. That station says it pays to silo green wheat, oats, barley, cane, kaffir corn, peas, immature corn or even foxtail.

If you cannot get kaffir corn, sorghum or milo maize seed, you can use oats, barley or cow peas. Reasonably favorable conditions will grow a crop of either before frost. It is a good idea not to depend upon any one of these crops, but to plant several.

Keep in mind that if your sile is partly filled with Indian corn or any other one crop, you can later finish filling it with any other crop or crops which you may grow, and in this manner get your silo full.

You can well afford to stake your labor and money for seed against the weather. It's the man who never quits who gets there. The fellow who lies down after a single trial is too much of a quitter to deserve much success, and as a rule success does not come to him.

The conditions of this season should impress upon every farmer the value of the silo. You need the silo now. The chances are nine to one that if you try you can grow the crops to fill the silo. If you buy a silo this year you will have it and it will have done you good service in an emergence.
Then, when feed grows more plentifully, you would not for the world dis pense with it.

At the Kansas State Agricultural College the pastures are dried up as are your pastures, but the dairy herd is being well feet and the college that the dairy herd is being well feet and the college that the dairy herd is being well feet and the college that th is being well fed and is not even fall ing in its milk flow, because of an ex-tra silo having been filled with corn ensulage last ensilage last year, and that ensilage is now being fed and the college has enough of it to feed the dairy herd until grass comes. What a boon it would be to the farmers of Kansas if every man had shall full of last year's every man had a silo full of last year's corn!—T. A. Borman.

If you are a little dry in your local ity do not play the part of a quitter. Hang on. Success comes from ever lasting staving lasting staying at it.

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not sell the stock because feed no not sell the stock because feed oppects do not look good. Try to we the feed. You can do it. That ck of old alfalfa hay is worth more ney fed to the live stock than any in prize you can get for it. Likese the old corn. Live stock makes farm pay. If you sell your stock a low figure and buy again at a the price you can't help but be a any loser.

The Ohio Experiment Station found could produce butter fat 9 cents could produce butter fat 9 cents caper per pound by using corn enage than it could when using hay me. A like difference was found in the production. The Nebraska Eximent Station found that a balced ration of corn ensilage and alfa or clover produced butter fat d milk at the lowest cost.

The Irrigation Farmer.

The three principal causes of failure farming by irrigation are overinting, under-cultivation, improper plication of water, and these apply all classes of irrigation.

all classes of irrigation.

Many people make grave mistakes assuming that by the use of large antities of water in irrigation, it is t necessary to cultivate as carelly as when the water is applied rough rain fall. This is a mistake done that the beginner is liable make. make.

First, one must use good judgment applying the water so as not to ald the plants and cause the ground hake or become hard and packed, us damaging the crop instead of nefiting same by irrigation, losing or time, cost of producing the water id damaging the land, losing interton the investment and deteriora-

on of your plant. Water should be applied in deep frow farrows between the rows of uck or trees (preferable by sub-irri-tion, permitting the water to sub-tigate as much as possible. Never low the water to flood the surface of e ground, excepting on rice and, posby, alialfa or small grain crops, if can be avoided. As soon as the ater has been taken up by the soil at the ground is in good tillable contion, you should cultivate, filling the rrows, keeping at all times a good ose mulch, such as advocated in the ose mulch, such as advocated in the ampheil system of dry farming. This ill prevent evaporation, leaving the oil in a good productive condition. It is best, when possible to do so, to pply the water in the evening or any in the morning, especially on mole

You will remember when nature ap lies the water, the clouds usually hade the earth, cooling same after he rain, and the clouds usually con-nue to shade the earth until the soil as properly absorbed the moisture; therwise, scalded crops are the re-

Always follow watering with careful ultivation, as soon as the soil is in avorable condition, bearing in mind hat weeds consume water and sap the trength of the soil and that the sun till absorb the water unless the loose hulch is retained. In other words, se as little water as possible and much cultivation and then good re-ults will follow. In this way you will educe the cost of irrigation, owing the less amount of water used, and our land will remain in excellent ondition.

The usual method of applying later: Flood the ground with too much water, little cultivation and some-imes none. The result is baked and Racked soil, plenty of weeds, yellow and dwarfed plants, and irrigation ronounced a failure when it is the irrigation of the results igator and his methods, or a lack of

method, that is the failure. in order that it may be clear, you vill see that a reasonable amount of water, properly applied, keeping a good moist sub-soil, gives the desired results; while much water improperly applied at an increased cost means no cron but a land crop but plenty of weeds and land left in poor condition.

By pumping water from wells or streams, where the lift is from 50 to 100 feet, and the careful use of same, a handsome the wealiged, dea handsome profit can be realized, deending, of course, upon the local conlitions, kind and number of crops prodeed per annum and prices received Don't Wait for the LIGHTNING to Strike your Home.

It means death and destruction when it comes. Why take chances? You owe it as a sacred duty to your family to guard them and their home from the fateful and terrible lightning. Don't delay. There is certain, absolute protection in

DODD SYSTEM of Lightning Control

Lightning causes three out of four fires in the country. Proven by statistics of fire insurance companies.

Insurance companies urge you to protect your home with the Dodd System of lightning protection. It is a matter of business with them. It saves them three-fourths of all their fire losses.

Benjamin Franklin, Originator of Lightning Control

Tens of thousands of buildings are protected by D.-S. Lightning Rods. Not a one ever destroyed. It should be a matter of love and duty, as well as business, with you to protect your home. Over 2000 insurance companies (Mutual and Old Line) grant reduced insurance rates on buildings protected with D.-S. rods.

Delay May Be Fatal! Act Now!!

Start by writing us. You will be serving your own best interests. Protection costs but a small fraction of what you have at stake. The rods are erected once for all. It is a permanent investment, adds but slightly to the cost of your buildings, and the reduced rates of insurance quickly repay the cost. See to it that you get the Dodd System, the one which affords unquestioned protection, the system which has universal endorsement. It is installed under a personal, binding guarantee to refund all money or make good your damage, if damage occurs. Note the Trade Mark below. You will find it on all genuine D.-S. rods. See that it is on the system you buy.

It will pay you to read our great Lightning Book, a book you can understand. Makes everything plain. Large pages, many striking lightning pictures from photographs. Contains Prof. Dodd's great Lecture on Lightning. Your free copy is waiting. Write for it to-day.

DODD & STRUTHERS,

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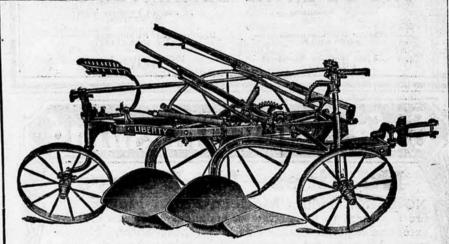




We can assure you that, in our opinion, backed by years of actual field work, the American people are just entering the greatest development in the irrigation line the world her ever known and much of the has ever known, and much of the water used for same is being obtained from the underflows, subterranean rivers, sheet or ground water, all of which are supplied by the rain, or snow from the mountains. In many instances, the rain falls upon porous formations, such as sand or gravel. formations, such as sand or gravel, porous rock or boulders, disappearing beneath the earth's surface in said formations, passing through the earth, and in some instances the water appears miles away at the earth's surface in the form of a spring or an artesian well that flows of its own accord and pressure. In many more instances the same water is being lifted to the surface by the use of two or. three stage centrifugal pumps, operated by electricity where it is available, gasoline, or solar oil engines where this class of fuel can be se-cured. Especially is the internal combustion engine to be desired where the lift is high and a medium amount of water is desired with long pumping seasons. Steam plants are sometimes preferable where large volumes of water are secured and the pumping seasons are short, and where the fuel is cheap and close to the plant.

One or two acres of truck at all times means a good living for the entire family upon the most healthful and desirable food to be obtained, instead of living out of a tin can and borrowing money at the bank to pay for same. A reasonable acreage of corn, properly fertilized, drained and watered, and being cultivated as it should be, will mean a feed crop sufficient to make the crop, thus saving ficient to make the crop, thus saving the expensibe feed bills and, to some extent, gives the farmer a diversified crop, which, if put in practice will put the balance wheel in the industry and place same on a banking basis. Add to this a sufficient number of chickens, cows and the producing of your mules and horses, all of which requires much patience, some work and a small amount of investment profits in proportion to the invest-

Most of the readers of this article will realize that the foregoing state-ments are correct, but the way to forcibly impress these facts upon the producer's mind, and to get them to act, we are unable to find. In the fall he realizes what he ought to have In the done but it is too late, and in the winter and spring he is too busy preparing his large acres of for crops, forgetting the foregoing facts, which seem to him of little importance, but, in reality, means the farming industry placed upon a banking basis, as each locality is rated in keeping with value received for crops produced over and above the cost of production.—M. E. Layne, Houston, Tex.



Rock Island Liberty Cang with Universal (CTX) Bottoms

ROCK ISLAND

Universal (CTX) Bottoms

Our Sulkies and Gangs have the only Universal bottoms ever made—the CTX.

Two years of triumphant success have proved them without a rival.

We have been making high-grade Plows since 1855, and our Sulkies and Gangs have always been at the head of the class.

But until two years ago just one thing was lacking—

An All-Purpose Bottom

All plow manufacturers had dreamed of this, but given it up as impossible.

When we brought out our CTX bottom the other plow makers admitted it was a good thing, but said we claimed too much for it.

It Has Made Good

Every claim we have made for this wonderful plow bottom has been made good by the work of the plows in the field.

Our Claims

The Universal (CTX) bottom works perfectly in corn-stalk land, stubble or in sod.

It makes no difference whether the plow is set to run two inches deep or eight inches deep, or whether it is worked in sand, clay, light loam or waxy land. It will scour wherever any plow can be made to scour, covers all trash and won't kink sod.

Prove it Yourself

Buy a Rock Island Sulky or Gang and prove these claims for yourself.

You can't make a mistake in buying our Plows. Ask the nearest Rock Island dealer. If you don't know who he is, write us for his name and free Plow booklet.

ROCK ISLAND IMPLEMENT CO.

Kansas City, Mo.

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Prof. O. E. Reid, formerly Assistant Professor of Dairy Husbandry at the Kansas Agricultural College, has been made full professor in charge. No better appointment could have been

D. H. Otis, formerly professor of Dairy Husbandry at the Kansas Agri-cultural College and lately Professor of Farm Management in the Wisconsin College, has lately been made Assistant Dea of the College of Agriculture. Few men have left the impress of good work that Prof. Otis left in the Kansas institution when he left for Wisconsin. Since his work began there he has done a notable service for the dairy industry.

Testing Kansas Dairy Cows.

It is announced that all of the dairy cows in the State of Kansas will be tested for tuberculosis this summer, under the direction of J. H. Mercer, State Live Stock Sanitary Commis-sioner. By fall it will be known just how many dairy cows there are in the State that are afflicted with tuberculo-sis. Upon the request of Mr. Mercer, the government Bureau of Animal Industry will assist in making the tests. The promise has been secured from James Wilson, Secretary of Agriculture that his department will help during the new fiscal year, which

will begin on June 30th.
Up to the present time the only tests for tuberculosis that have been made have been upon request. A recent resolution adopted by the Kansas City council has brought about a demand for tests in the eastern part of the State from which milk has been shipped to Kansas City for local consumption. The council has passed a resolution prohibiting the shipment of milk to that city if the milk comes from tuberculosis cattle. The State has only a small fund for this purpose and the demand for tests has over-taxed the fund. Throughout the east-ern part of the State are dairy herds furnishing Kansas City with its milk supply, and these herds are being

tested as rapidly as possibly.

If the government can help this summer, as it has promised to do, it will probably spend as much as the State will, and the combined funds will test all of the cattle used for cairy purposes in the State. This will not apply to individual cows used for individudal families. Only the dairy herds will be tested.

Up to the present time 3,500 cows have been tested in Kansas, and of that number less than 200 have been found to be tubercular. Not a cow tested in the western part of the State indicated the presence of the disease. What bovine tuberculosis there is is in the eastern part of the

What Dairying Does.

The Ice Cream Trade Journal in a recent issue gives the following interesting information in favor of dairying:

Iowa, Georgia and Mississippi had, in 1900, approximately the same number of farm families. Their total value of domestic animals was, in million: Georgia 33, Mississippi 41, and Iowa 272. For each family their value was: Georgia \$108; Mississippi \$185; Iowa

Now look at the value of the farm products, for 1909, in millions: Georgia 104 and Mississippi 102, while the Iowa farms produced \$1,000,000 for every day in the year. Every farmer's family in Iowa produced nearly four times as much as a farmer's family in Mississippi or Georgia.

But here's the staggerer: Iowa spent \$337,190 for fertilizers; Missis-sippi \$932,000; while Georgia's fertil-izer bill ran up to \$5,700,000.

Why did Georgia pay nearly sixty times as much as Iowa to raise each dollar's worth of produce? You think there must be a reason? You are wrong. That's exactly why it hurts-there is no reason.

But there is an answer . The answer

is in the cow—just where the fertilizer is. The Iowa farmer returns the richness to his land; the other farmers ship it away.

The entire South has a climate where it is rarely necessary to protect cattle from the winter. There is an abundance of forage and plenty of water. Then also the cotton-sed, taken in connection with cattle-raising, is the surest of all wealth-producer.
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directly upon the ground, which utilities the sure of the su izes only a small part of its value. If the same ton of cottonseed meal were filtered through a cow, the droppings would contain from ninety to ninety, five per cent of the original fertilizing value, while the farmer would have his dairy products, his cow, and a calf by way of lagnappe.

Cattle thrive upon those elements of cottonseed meal that are useless as plant food. Those elements produce meat and milk. The cow compels the farmer to raise forage, and enable him to raise it. She is the mother of diversification—enemy to the single crop and fertilizer bills.

Raise Calves Without Milk.

Thousands of farmers and dairymen have been raising calves without milk, for many years. Don't feed butter-fat to the calves. It is worth more to sell it as cream or butter. It is cheaper to raise the calves on the excellent milk substitute, "Big B" call meal, manufactured and sold by the Brooks Wholesale Co., Fort Scott

This calf meal contains no cheep mill-feeds, but is made of ten of the finest ingredients obtainable for the necessary quick and healthy growth of young calves. It has been proven thoroughly satisfactory for raising calves; also for young pigs. It can be had by ordering from the company above named. Prices: 100-lb. sack, \$3; 500 lbs., \$13.75. Prices are freight prepaid. Full directions are sent with each sack. Order a trial shipment.

Sowing Grain in Standing Corn.

The advantages of sowing wheat be tween rows of standing corn are many and is constantly gaining in popular ity. It permits the corn to stand until fully matured, and at the same time the fall seeding is not interfered with because the seed can be put in the ground at the proper time. Hossier One-Horse Five Disk or Five Hoe Drills with and without Force Feed Fertilizer Attachments will be found admirable for this purpose. They possess many features not found in other machines of this class. They are made with adjustments enabling the user to employ them between different width rows. These machines are width rows. These machines are manufactured by The American Seeding-Machine Co., Incorporated, Richmond, Ind., who sell Hoosier Drills under such a fair and liberal guarantees. tee that no risks are run in purchasing. Send to the manufacturers for a Hoosier One-Horse Grain Drill catalogue. Go to your implement dealer and insist on seeing the Hoosier.

Caked Teats.

We have a Jersey cow which came fresh this spring and at that time of the teats seemed to cake. We so plied hot lard and turpentine and seemed to be all right, but the milk never came back in that side. The cow has been giving five gallons a day, but now another teat is caked slightly and has no milk in it at all. She is a valuable cow and has the clover pasture and a small feed of charter bross are a small feed of the charter b shorts, bran and chop.—G. M. S., Mer win, Mo.

Ans.—Have a veterinarian pass a long milk tube and pump up the quarters with oxygen, the same as for milk fever and research to the same as for milk fever, and repeat it in about three days. Give her a good purgative Epsom salts and repeat it in three days. Cut her feed down and keep her in a dark stable in daytime and her in a dark stable in daytime and out at night. If her bag is heavy milk three times a day.



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Bladder Deposit.

I would like some information about a deposit found in the bladder of a horse. It was about the size of an ordinary man's head. What are the symptoms and causes? What medicine should be used to dissolve the ob-

struction?—A. B. J., Ault, Colo.
Ans.—It is a cystic calculus and is composed mostly of carbonate of lime and some other forms of lime. It is very hard to give medicine to dissolve it and the best way is to operate. Crush it in the bladder and wash out.

Stiff Shoulder.

I have a mare mule, 8 years old, weighing 1,400 pounds. She is stiff in her shoulder and walks as though her feet were sore. When she stands she lifts first one foot and then the other. She also lies down a great deal. She seems worse at times, depending on the weather.—C. E. S., Bucklin, Kan. Ans.—This is a case of navicular

disease and is sown at the coffin joint, just in the top of the hoof. Have the shoes taken off and her feet dressed down all they will stand and poultice them good for two days with oil meal. Then wash and when dry clip off the hair and apply cerate of canthardies from the top of the hoof up two inches and repeat it in eight days. Give her a rest on grass and if she does not entirely recover she will have to have the branch of a nerve cut that goes to the coffin joint.

The Pure Bred Sire.

Many people recognize the value of a pure bred sire but comparatively few stop to think just how valuable he is. In building up a herd the sire is more important than all the females in the herd and if he is consistently used, it will be only a very short time until the herd is practically pure

When this is true the owner gets many of the benefits that he would derive from pure bred animals but not all. He cannot sell the surplus stock for breeding purposes because he cannot give pedigrees and then the individuals in the herd are not sure to breed true because of the small amount of cold blood which still re-

Suppose the breeder were to begin with a common herd of hogs, for illustration, and were to buy a pure bred boar. The first generation would be half bloods, of course, but if he keeps on using pure bred sires the second generation would be three-quarter bloods, the third would be seven-eighths, the fourth, fifteen-six teenths, the fifth, thirty-one-thirty-seconds and the sixth, sirty-three sixty-fourths fourths.

In other words, the first crop of pigs from a pure bred sire would be 50 per cent improved and 50 per cent unimproved while the 6th crop would be 98.43 per cent pure and 1.56 per cent unimproved.

It does not take long to raise six generations of pigs and when done the results are practically pure bred animals, though they would still lack the pedigree and would still have the tendency to "throw back" to the orginal type of the dam.

For pork production this scheme is practicable and a money maker, as was shown by Mr. J. G. Arbuthnot in his recent article in Kansas Farmer. It is an especially valuable idea in dairy farming provided it is carried out with proper tests of the cows and the good ones only retained in the herd and their heifer calves kept for its perpetuation.

It does not cost much to get a pure bred sire when the benefits to be derived from his use are considered and the ownership of a good animal has an educational value which is practically sure to lead to a desire to own a good herd.



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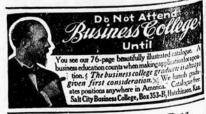
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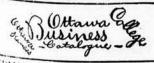
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Excerpts From Uncle Sam's Bulletin On Growing Late Seed

The situation in the central west calls for the immediate planting of emergency crops to round out the shortage of both hay and pasture. There is still time to plant half a dozen kinds of quick-growing crops that may be used as substitutes for the regular hay and pasture crops i' the seed is secured and the land at once put into condition.

For hay there may be planted millet, cowpeas, sorghum, soy beans, and Canada field peas and barley. These same crops are suitable for pasture purposes, and, in addition, rape, rye, and winter varieties of wheat. The and winter varieties of wheat.

whole corn plant may also be used. The aim is to state briefly enough essential facts relative to each of these crops to enable intelligent selec-The vital point now is the recognition of the situation and the prompt planting with least possible delay of some crop that will supplement the pastures as quickly as possible and fill empty barns with hay for winter.

MILLET.

Common millet is one of the best varieties of millet to sow as an emergency hay or pasture crop, since it yields well under trying conditions of soil and climate. It matures for hay in 50 to 80 days from the date of sowing. As a pasture, stock can be turned on it within a month after seeding. Use one-half to three-fourths of a bushel of seed per acre. If seeded for an early grain crop or on corn land burned up by drought, disk the land thoroughly and harrow the seed in or sow on shallow plowed land well harrowed down. Other good varieties of millet are Hungarian and German.

SORGHUM.

For fodder sorghum should be sown as early in July as possible. Early Amber, one of the best varieties, requires 70 to 100 days to mature for fodder, and the Orange varieties about 10 days longer. In some sections cowpeas and sorghum are sown together at the rate of one-half to 1 bushel of cowpeas and 1 bushel of sorghum. This makes better hay or pasture than sorghum alone. As a summer pasture the mixture is especially relished by sheep, cattle, and hogs. COWPEAS.

Cowpeas and soy beans may be successfully sown for hay or pasture as late as July 20. Both crops are equal or superior to clover in feeding value and are relished by every class of stock on the farm. Cowpeas will give from 1 to 3 tons of hay per acre. New Era is one of the earliest varieties, maturing seed in 60 to 80 days after sowing. Other early varieties are Early Blackeye and Michigan Favor-ite. Whipporwill, while a little later, is a more vigorous grower and a general favorite for hay or pasture. In Missouri and Kansas a cowpea hay crop can be grown after an early grain crop has been removed. New Era is one of the best varieties for this purpose. The most satisfactory results are likely to be secured by seeding on well-prepared ground in rows 27 to 30 inches apart, at the rate of about half a bushel per acre, keeping the rows cultivated. If seeded broadcast at least 1 bushel should be sown and the crop har-rowed in. Cowpeas swon in standing corn at the last cultivation will furnish a large amount of pasturage, and this method of handling the crop is recommended.

BARLEY AND PEAS.

Barley and Canada field peas seeded together at the rate of about 1 bushel of each make an excellent pasture and soiling crop, and if seeded by July 15 will mature for hay. The hay is relished by sheep, horses, and cattle and is a rich protein forage for dairy cows, while the pasture is especially valuable for hogs and lambs. The yield varies from 2 to 3 tons of cured hay per acre and the hay is fully equal in feeding value on the farm to the best mixtures of clover and timothy. Oats are frequently seeded with Canada field peas for forage, but after July barley makes a more rapid growth than oats and is less subject to rust. A mixture of

barley and peas may be seeded to-gether with a grain drill on well-pre-pared, fertile soil, preferably clay loam, or broadcasted and harrowed in, covering 2 to 3 inches deep. RAPE.

This is strictly a succulent pasture crop of especial value for hogs, growing lambs, and fattening sheep. It may be sown in corn at the last cul-tivation, using about 3 pounds of seed per acre and lightly harrowing it in. Much better results will be obtained by seeding the crop alone on fertile clay loam or black soil, sowing either in drills 30 inches apart and at the rate of 2 pounds per acre, or broadcasting at the rate of 3 pounds per acre, covering about half an inch deep. The crop will be ready for pas-turage within 50 to 60 days from seeding, and on good soils will furnish 20 to 30 tons of green forage. An acre of rape on good land will furnish pasture two or three months for about 20 hogs or as many lambs fed light grain rations in addition. Dwarf Es-sex rape is the variety to grow. Cattle and sheep should be gradually accustomed to rape, and well filled up on other feed before turning in to graze, otherwise they may bloat. RYE.

This crop can be sown in the standing corn at the last cultivation in July and will afford considerable pasturage for all stock. It is often thus sown either alone or mixed with rape for lambs or sheep being fattened for market. If seeded on especially prepared ground the crop will come on much earlier and give considerably more fall feed. Seed at the rate of 11/2 bushels per acre. Winter varie-11/2 bushels per acre. Winter varieties of wheat if sown at once will also afford a large amount of fall pasture. CORN.

Every farmer knows the value of corn as a supplement to a pasture crop late in summer, for which pur-pose it may be used for cattle as soon as it is tasseled out and for hogs as soon as the ears have reached the roasting stage. Not so many realize that an acre of corn stover—the crop left standing after the ears have been taken—is as valuable for feeding to cattle and horses as an acre of timothy. With a short hay crop, therefore, every effort should be made to carefully handle the corn crop. The feeding value in the stalk and leaves of the corn plant increases up to maturity, but if the stalks are allowed to stand in the field after ripening there is considerable loss. This loss at the Iowa Experiment Station two months after ripening amounted to more than one-half of the value of the

Investigations show that of the feeding value of corn stover about 27 per cent is in the stalk and leaves above the ear, 26 per cent in the husks, and 47 per cent in the stalk and blades below the ear. When lef standing in the field many of the lower leaves dry up and are blown lower leaves dry up and are blown away or beaten down by rains into the ground and lost. Farmers are urged to cut corn for grain as soon as the ears are well dented and a few dry blades appear. Thus handled the maximum feeding value of the cros with reference both to grain and stover will be secured. Put the corn in good-sized shocks and after husking out the ears put a number of shocks together. Large shocks lose less food constituents by weather and fermentation than small shocks. If the stover is put into the barn it must be thoroughly dry to prevent mold-Except for convenience of handling it is not necessary to shred corn stover, as apparently its feeding value is little if any increased thereby. cutting and shocking the feed value of stover is increased one-third to onehalf over what it would be if left standing in the field. With a short hay crop this loss should be obviated by gathering and shocking the corn. SUMMER PASTURES.

An excellent plan in providing against shortage of pastures is to grow each year some of the supplementary crops, such as rye, millet, cowpeas, rape, or sorghum, mentioned above to be used during the dry season. An excellent annual pasture can



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1, 1911

EL.

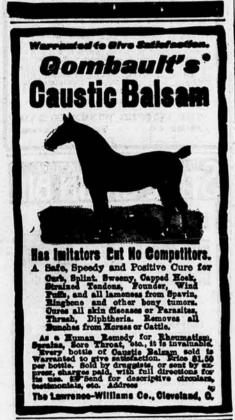
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It would be a good plan to count your chicks quite frequently, so as to know when the numbers are being diminished by vermin such as rats, skunks and weasels.

Chicken feed has advanced in price from 40 to 50 per cent during the last month and it is a waste of money to feed this grain to any but the producers, such as laying hens and growing chicks. All non-productive stock should be marketed at once.

You can save on your grain bill by feeding alfalfa leaves or cut alfalfa as part of the daily ration. In every mow where alfalfa is stored will be found a great quantity of leaves that the cattle cannot use, but would be greedily devoured by the hens.

Crowd the young stock; feed them all they will eat; there is nothing made by being stingy; they require and must have plenty of good, wholesome food in order that they may mature strong and vigorous. This is what you want, provided you have the plumage to win at the shows and fall fairs. age, to win at the shows and fall fairs. Remember that the woods will be full of them and the man who gets there must have good stock. So if you don't want to be defeated, don't spare the

With eggs representing in the neighborhood of two-thirds of the total value of poultry products, which last year were estimated at \$650,000,000, the campaign which has been undertaken by the agricultural department with a view to stopping the average loss of 10 per cent of all eggs between the nest and the consumer, through spoiling, has much to justify it. Sat-isfactory results can only be had through the co-operation of all poultry raisers along the line of providing better nesting places, more frequent gathering of eggs and keeping them in cooler places. They should be mar-keted as frequently as possible to prevent them getting stale.

Between Times.

The breeding season is now over for this year, and yet there are the coops standing out exposed to the damaging effects of wind and storm. Take care of them, for you will need them next year. Choose a clear, sunshiny day and give them a good cleaning, both inside and outside, using a good, both inside and outside, using a good, stiff brush for the purpose, and then put them away in some convenient shed, or in one of the unused compartments of your poultry house, till they are dry. When they are dry and in good condition to do it, give them a good coat of whitewash, especially of they have been made wholly cially of they have been made wholly or in part with unplaned lumber. If planed lumber has been used in their construction and they have been made tasty and neat in appearance and sub-stantial in build, paint them in place of whitewashing them, as it will adhere better. If there was a scarcity of coops last season, whenever you have not much to do, take your time nave not much to do, take your time for it and make enough to supply your necessities for the next season. By not being pushed for time, you can make a more tasty, neater and better coop than you could if you left it till the last moment and then rushed to work with hammer, saw and nails and patched up your job in a hurry. Keep everything neat, cleanly and in order around your poultry house and it will go far toward attracting customers for your birds, to say nothing of the satisfaction you will feel on your own account. If some of your chickens still country the coops there hickens still occupy the coops they were raised in, they should be moved into the poultry house, for they are certain to be crowded in the small, stuffy coops. You may have to carry them for several nights to the poultry house so as to get them used to the new place, but they will get accustomed to the new quarters after a while and the they will give you no more trouble in this respect.

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Wonder This promising young boar

of one of the best brood sows on the

Lay Clumbia 1st. Mr. Spangler has

Spigs sired by Spangler's Hollow

Spangler's Hollowing

Spigs sired by Spangler's Hollow

Spangler's Hollowing

Spigs sired by Spangler's Hollow

50 head of the very best will be offered to the highest bidder. Keep the date in mind and watch for further mention in Kansas Farmer. Don't fail to send for a catalogue; study it carefully. The blood lines and matings of this herd are worth your time and if you can arrange to visit the Spangler herd ar attend the sale, Please mention Kansas Farmer when you write.

Schmitt & Sons' Polands.

C. C. Schmitt & Sons of Savannah, Mo., are the owners of one of Missourt's good herds of big Pland Chinas. Although they have been breeding the big Polands only a few years, they have built up a splendid herd, composed of representatives of the best big-type herds in the country. The head of this herd is Hadley's Wonder 50329, sired by Big Hadley's Wonder 5328, dam lady Wonder 6th 37761. Hadley's Wonder is one of the big, high-class boars with a splendid breeding record. Schmitt & Son have a very fine sow herd bred right and all with fine records for prolific qualities. Altong the Sows are Odessa 2d, sired by Pawnee Allerton 49909; Savannah Giantess, sired by John L's Ex, dam Black Giantess 163289, and others equally good.

Caldwell Couunty's O. I. C. Herd.
Attention is called to the card of L. L.
Frost of Mirabile, Mo., in this issue of Kansas Farmer. Mr. Frost is the owner of the famous Caldwell County O. I. C. herd, established 25 years ago, with breeding stock from the O. I. C. fountain Head. The remarkable winning record of this herd at the world's fair in St. Louis in 1904 will be remembered by every breeder of pure-bred hogs. The herd won 71 ribbons and \$5.107 in cash. Jackson Chief 4759, Mr. Frost's herd boar at that time, was the winner of two championships and two grand championships. He won seven first place ribbons and \$758 in cash. Mr. Frost has maintained the standard of excellence of his herd until the present time and has at this time one of the best O. I. C. herds in the country. All breeders interested in high-class O. I. C. hogs should investigate the Caldwell County herd, as Mr. Frost has one of the finest lots of spring pigs that he has raised for years. Kindly mention Kansas Farmer when writing.

J. D. Gates' Big-Type Polands.

raised for years, Kindly mention Kansas Farmer when writing.

J. D. Gates' Big-Type Polands.

J. D. Gates of Ravenwood, Mo., announces Oct. 17 as the date of his annual fall sale of big-type Poland China hogs. Mr. Gates is known all over the country as a pioneer breeder of the big, smooth Poland Chinas with the feeding qualities and at present he is the owner of one of the biggest and best herds of hogs in that class to be found in the country. This year Mr. Gates has the best lot of early farrowed spring pigs he has ever owned. Among the lot he has two litters sired by the famous A Wonder and from two of his famous sows, Miss Gates Uptodate and Miss Giantess. In one of the litters there are three boars and six sows and in the other one boar and seven sows, and all of them are great big high-class pigs that will have to be seen to be fully appreciated. Mr. Gates also has a large number of pigs sired by his two famous herd boars, 1,000-pound Expansion and Big Hadley Jr., both classed among the very best high-class big-type Poland China hoars in the country, and both noted for their fine breeding records. The pigs sired by these two boars are not only big and growthy, but are high class and a more uniform lot can hardly be found. Mr. Gates cwns one of the best herds of big-type Poland China sows in the country and has won many ribbons during the past five years. In building up his sow herd he has selected the hest blood of the big type, always keeping size and quality in view and his herd is noted for their headen.

Dean's Mastodon Polands.

Mention is made of the change in the card of Clarence Dean of Weston, Mo. 'Mr. Dean has one of the best big-type Poland China herds in the west and his Mastodon Polands have become famous throughout the corn belt. His herd is headed by Mastodon Price, sired by the famous A Wonder, Mastodon Price, sired by the famous A Wonder, Mastodon Price is a big-boned, great, massive boar and is a true representative of the best big-boned Poland blood and the young breeding stock now on Quality Ridge Farm is a choice lot. At present Mr. Dean is offering a select lot of fall boars and a toppy lot of spring boars. They have been carefully selected, and breeders will make no mistake in selecting boars from this herd. They can be bought worth the money and description of stock guaranteed. Mr. Dean now has a herd of 150 Polands and also a select herd of Hereford cattle. If in need of a high-class Hereford bull or a Poland China boar of the real big type, write him at Westen, Mo., and kindly mention Kansas Farmer when writing.

Winning Success.

There is no better business college than that managed by H. S. Miller, president Miller's Business College, Wichita, Kan, Here's a college which has stood the test, which is sending men and women into the business world who are doing what you would like to do. These graduates had no special ability when they first entered the Miller Business College, but they have it now, and what Pits, Miller has done for them he'll do for you. Do you want to succeed? If you do, write the Miller Business College, Wichita, Kan., for their free booklet, "Success." It tells you how to win.

The Age of Specialists.

By H. S. Miller, President Miller's Business College, Wichita, Kan.

There was a time when a person could, by hard work and close attention to business, enjoy an average measure of success in everything. They could be a fair bookkeeper. lawyer, farmer and dabble into all lines to a certain extent and still be considered a great success.

But that time is past. The men and women of this day who are successful in the fullest sense of the word are those who can do some particular thing well, who thoroughly understand a certain line of work, give it their entire time and make of it

oughly understand a certain line of work, give it their entire time and make of it their life's vocation.

"The age of specialists" is a phrass which applies more to the business world than to any profession. Competition is becoming keener every day, therefore the demand for skilled men and women naturally become greater. More young men and women are entering the marts of trade today than ever before—that makes competition harder for you, and that's the one great reason why you should be fully prepared and equipped before you enter your life's work.

If you will stop and think for a moment

life's work.

If you will stop and think for a moment your common sense will tell you that you if untrained cannot hope to compete with

the skilled man or woman. You wouldn't expect a plow horse to win in a race against a thoroughbred. Why? Because the thoroughbred is trained, in other words is a skilled worker; he knows how to run; he understands the course, knows the fine parts of racing and consequently has only to canter along without an effort to win, while the polw horse is left behind doing all that's in him, only to lose.

The moral of this is that the plow horse didn't know how, consequently his efforts were in vain and he received nothing whatever for his efforts.

So it is with the young man or woman entering business. If they have not the advantage of an education gained in some good business college they fall behind, are unable to keep up with the thoroughbreds—they become the plow horses, fall to be promoted and are able to make nothing more than a bare living.

The question which naturally arises is, where am I to get this training? Why not enter business now and learn by the hard knocks route? There is where you will be making your mistake, for experience is a hard teacher. Wouldn't it be showing good judgment on your part to learn from the experience of others, to get in touch with someone who has been through the "mill and leerned it from the ground up?

By following this plan you will accomplish more in a few months than you would in years by going about it blindly. If you enter business without the necessary training for a long time you are simply groping in the darkness. You do not know what is to be done or how to do it. You are lost; you are losing time, and in this day time is money.

Select some business college that's stood the test of time, that's backed up with years

are losing time, and in this day time is money.
Select some business college that's stood the test of time, that's backed up with years of experience and success, that's turning out men and women who are successful and making their marks in the world; that's managed by men who know how, who have the experience and the ability to impart the results and benefits of rheir experience to you. Get acquainted with these men, take a few months' course under their personal directions, and then you'll be prepared to fight the struggle of this old world and win.

Denominational Colleges. Pres. T. D. CRITES, Campbell College, Holton, Kan.

Denominational colleges are distinctly Christian institutions. The work done in their halls produces both character and culture. They belong to that class of colleges having an enrollment of between 400 and 500 students, a condition which produces the best educational, social, moral and religious conditions known in our educational system. The students have splendid social advantages, the personal contact with the teacher is a reality and it goes without argument that the moral and religious element is the best to be found.

Fully three-fourths of the students attending these colleges from year to year come from the farms, small towns and villages of Kansas. It is the purpose of the faculties to place



T. D. CRITES, D. D., PRESIDENT CAMPBELL COLLEGE.

standard instruction within the reach of the most deserving young men and women. They invite only such students as seek to improve themselves in character and culture by close application and hard work. The discouragement of social extravagances, the a large number of the students who are working their way and the low cost of living keeps the expense down to a minimum.

The course of instruction varies, but generally covers literary, Christian, musical, athletic, oratorical and debating branches. In a college of this character there is no snobbishness, foolish extravagance and unreasonable social demands. They are colleges where character and culture set the standards.

A Graduating Class of 158 Men.
The graduating class of the Kansas City Veterinary College this year, numbering 158 men—the largest class in the 20 years the college has been in existence—proves that the law of compensation applies to the growth of colleges the same as to other branches of business.

The college that grows more useful each year must give more than it receives. It must be of life-long benefit to its students. In that respect the Kansas City Veterinary College is certainly fulfilling its mission.

If you contemplate becoming a veterinarian or know of some one else who desires

WHY BUY A WICHITA "Pig in a BUSINESS COLLEGE

by signing a note or contract to attend some school before you have visited the school? The best school always urges an investigation before the "tying up." Investigate us.

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to educate himself for this useful profession, write or have him write, to Sesco Stewart, secretary of the college, for the 1911-12 catalogue and any other information that may be desired. Fall term commences September 11, when examination for admission will be held.

MOIN LAND BARGAINS

FARMS FOR 61 FARMERS IN COLORADO

Out of that level strip of alfalfa, between Colorado Springs and Pueblo, along that beautiful stream which flows from the mountains, called the Fountain and skirted by a heavy growth of timber and paralleled by the Rio Grande, Santa Fe and Southern Railroads, also that beautiful auto boulevard from Kansas to Denver,

Write me today for a map of this land and full particulars which will cost nothing. Do it now. O. W. LOVAN, Room 26, Independence Bldg, Colorado Springs, Colorado.

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Write for our list of Special Bargains. We have some prices that will surprise you, Remember that Ness County adjoins the banner wheat county of Kansas for 1910. County map and literature mailed on request.

FLOYD & FLOYD, Ness City, Kansas.

WHAT have you to trade for lands or city property? Hale, Coffeyville, Kan.

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FARMS FOR SALE IN CLOUD AND mirrounding counties in Kansas. All prices, rom \$30 to \$100 per acre. Glad to send you he list. Concordia Land Co., Concordia,

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DOLLARS PER ACRE UP TO \$25 buys best improved farms in Wichita county, Kansas, WHEAT BELT LAND CO., LEOTI, KAN.

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in Ford county at \$25 per acre up; near R.
F. D. and telephones and schools.
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160 ACRES, 3 miles of Towarda. A snap at \$7500. Other good farms in western But-ler county. Write for particulars. G. W. MOORE, Towarda, Kansas.

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catile, horse and sheep ranches. I have im-proved farms worth the money on terms to suit in the sure wheat belt. Agents wanted

J. C. WHARTON, McCracken, Kansas.

FINE HOME, 48 a., one mile of this city, about 38 a, now in cultivation, bal. pasture, 6 room house, new barn 31x60 and hay loft two wells and mill and other outbuildings; good orchard and all second bottom land, Priced to sell at \$5,500 cash. E. F. Dewey, Blue Rapids. Kan.

15,000 ACRES CHEAP LAND, Kit Carson County, Colorado for sale or exchange. Good relinquishments cheap. This is the rain belt of Colorado, Good soil, good water, good crops, everything prosperous. Write for particulars, GIBSON & NELSON, Flagler, Colo.

EUREKA-400 acres improved 5 miles of Spearville, ½ in cultivation, 100 a. pasture, arge b room stone nouse, stable, granary, 2 wells, windmill, tanks, 2 hen house, school 1 mile, phone, a dandy farm. Only \$22,50 per acre; good terms. Send for big list. Address STINSON & SHELDON, Spearville, Kansas.

RENTING STOP

Here are 160 acres 8 miles Fall River, Kansas, 85 acres cultivation, balance native grass; 3-room house, common stables, orchard, good water, close school; this farm lies in nice valley; cash price \$4,000; will take \$1,000 in good work and driving teams ag part pay, W. A. Nelson, Fall River, Greenwood County, Kansas.

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First-class, level wheat land in cultivation, situated 4½ miles from Plains, Kan, I offer this farm at \$25 per acre on terms, \$4,800 cash, balance, \$3,200, secured by first mortgage on the premises for term of 5 years, with interest at the rate of 7 per cent per annum, payable semi-annually; many other attractive propositions in southwest Kansas. Write for my land list.

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Plenty of rain and everything looking fine. Come and pick out your farm on next March settlement, All kinds of exchanges. Send for new list. Send for new list. EBERHART & MELLOR, Whitewater, Kan.

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FARMS—100

80 acres 3 miles from town, 70 a. under rlow, alfalfa land, 20 pasture and meadow, 5 room house, good well, barn and other buildings, \$200C cash; rest to sult; 25 a wheat included, Write for list, J. J. Bishop, Wakefield, Kan.

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560 a., 100 a. in cultivation, 150 a. in meadow, remainder in good pasture; 5 room house; nice barn 106 ft, long, 30 ft, wide; other buildings; good well; orchard; on rural route 3 miles to shipping point and 5½ miles of Fredonia, the county seat, a flourishing city of 3 railroads and abundance of natural gas; very healthy and nicely located. Will take \$32.50 per a. if sold by August 1. Good terms. Address OWNER, Lock Box 926. Fredonia, Kansas.

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m \$3.00 to \$15.00 per acre, write GEO. J. DOWNER, Syracuse, Kans.

210 IMPROVED, Woodson Co.—timothy, clover, alfalfa on farm, Wants mdse, or income property. Write for description.
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A FINE NESS COUNTY FARM—240 acres 1½ miles from town, ½ mile to school, 160 acres perfectly smooth, 80 acres pasture land not rough, good well, NEVER DRY, all fenced and cross fenced. Price \$25 per acre, Will trade for good clean stock of mdse, wroceries preferred. If interested write for list.. Rutherford & Oliver, Utlca, Kan.

160 ACRES, 3 miles from town, one 4-room and one 2-room house, barn with mow 14x24, cattle shed 14x50, 85 acres cuit., 4 acres alfalfa, 15 a, alfalfa land, all tillable school ½ ml., telephone, young orchard and grove of forest trees. Price \$4,500. Trade for good clean stock general merchandise or hardware. F. T. McNinch, Ransom, Kansas, Land list free.

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Of 160 acres; 80 acres in a high state of cultivation; 25 acres fine meadow, balance pasture; all fenced and cross fenced; watered by creek in pasture and well at residence; orchard, 3-room cottage, barn, granary and corn crib; this place is located 5 miles from court house and 3 miles from paved street and car lines in Wichita; price \$9,000, terms to suit purchaser.

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MEETING OF KANSAS GRADING (IN MISSION,

Notice is hereby given that under the visions of Chapter No. 222, the Grain of ing Commission will meet at the offer the Governor in Topeka, Kansas, on the day of July, 1911, at 10 o'clock a. m., to tablish the grades of grain to be known Kansas grades, to be in effect on and at the 1st day of August. 1911.

THOMAS PAGE,

J. G. MAXWELL,

A. T. ROGERS,

Grain Grading Commissions

Business Training Leads to Succe (Continued, from page 5.)

Secretary of the Treasury and is a the head of one of the largest corrations in the world at a salary \$35,000 a year. Shorthand made career possible.

Some of the most prominent b ness men and statesmen have read ness men and statesmen have read their high positions of wealth and fluence because of their having be competent stenographers and to writers. Some of these men are Ja K. M. Landis; Chas. Smith, Presid of the Westinghouse Company; late Secretary of State, John Hay; Postmaster General Robert J. We Samuel Galloway, president of Samuel Galloway, president of American Locomotive Company.

The salaries of competent ste graphers varies from \$900 to \$2,59 year. It is said that the stenograp of the late Henry H. Rogers received a salary of \$25,000 a year. The bases world would be crippled of night and ruined were it suddenly prived of its stenographers and to writers. They are as indispensable



W. H. QUACKENBUSH, LAWRENCE NESS COLLEGE, LAWRENCE, KAN the modern business world as foot to plant or animal life. A study commercial subjects, therefore, it ishes just that commodity which ness men are constantly in need and the business colleges of the O and the business colleges of the d try are called upon to supply this mand. The boy or girl who goes a business office with a knowledge the elements of bookkeeping, methods, correspondence, is able spell correctly, write a good letter, ure rapidly and accurately, need no fear of finding employment will be remunerative and make po ble unlimited advancement. colleges and commercial schools erally, are requested often to red mend students who have comple their courses to positions that pay a year and upward. The roster a year and upward. The roster some of the older business college a striking comment on the value commercial education. The names of these men figure

some of our most important en prises in the United States, and are always frank to admit that best preparations. best preparation in an educational which they have had, the thing where has been most instrumental in seing their promotion, has been the lines a collection.

ness college training.

OLAND CHINAS

POLAND CHINAS

LONE ELM POLAND CHINA HERD

J. M. PEMBERTON.

FAYETTE, MISSOURI.

Big Boned, High Class, Poland China Hogs. A number of high class fail

bred for September farrow for sale.

Will also book orders for spring pigs. All

guaranteed as represented; also safe delivery at your station. If you want big

d, high class Polands, write me at Fayette, Mo.

GILDOW'S BIG TYPE POLAND CHINAS

d headed by Big Bill Taft and Pawnee Chief Hadley. Choice lot of spring pigs for pairs or trios no kin, also a few extra good sows and glits either bred or open.

BRED GILTS \$25 to \$30 EACH, fall slits, big and smooth. Big type. time to start herd. Write quick, F. D. YOUNG, Winchester, Kans.

ME fine fall gilts at a bargain, either or bred to my mammoth young boar. By pigs by five great boars. Orders and pigs shipped after weaning, ed low to move. Write your wants. C. MILLIGAN, Clay Center, Kansas, one idana 68-22.

G BONED POLAND CHINA HERD— nasion and Hadley sows, headed by M's I Wonder by Prince Wonder, dam by see Chief; choice spring pigs, botx sexes, mable. John T.Curry, Winchester, Kansas.

ILDWEIN'S BIG TYPE POLANDS. led by Kansas Leader by Union Leader, ted by a grandson of Hell Metal; sows typansion, Hadley, Tecumseh and other type breeding; choice lot of spring pigs. LTER HILDWEIN, Fairview, Kansas.

BIG POLANDS.

hn B. Lawson's Herd, Clarinds, Iowa.
big. smooth kind. Pigs for sale sired
Long King's Equal. Book you order,
Pigs farrowed in February and early

ROSE LAWN POLAND CHINAS, ag Darkness by Meddler 2d, assisted horgrass Meddler by Meddler 2d head herd of richly bred Poland China sows. we spring gilts by On the Spot for sale, MANDERSCHEID, R. 3, St. John, Kan,

RYESTEAD'S BIG KIND POLAND
OHINAS
ains the breeding of about all leading
type sires. Herd boars O. K. Hutch by
rb Jr, and Commander B. by Big Comdet. 75 choice pigs to date. Visitors
ome.

R. RYESTEAD, Mankato, Kansas.

sner's Big Smooth Poland Chinas ied by Metal's Choice by Mo, Metal, he Pell Metal. Eighty early spring pigs by this hoar, Expansive, Big Price, Themas and other good sires. Dams trid are big and motherty and have the kind of big type podigrees. Visitors ome.

T. J. MEISNER, Sabetha, Kansas.

STRYKER BROS.' HERD POLAND

chinas,
be greatest show and breeding herd in
West. Write your wants and they will
ke you. Buy the best and make the
t. They breed the kind that win; the
that you want. Address
STRYKER PROS. Predonic Mon. STRYKER PROS., Fredonia, Kan.

Alicoats Big Poland Chinas.

ed headed by the line bred Expansion
Bell Expand by Bell Metal, 50 of the
Pigs we have ever raised now ready
dect from. All but one litter by boar
mentioned and out of mature sows
I along popular lines and strictly big
Buy early and save heavy express
Will also sell Bell Expand.

B. AMCOATS, Clay Center, Kansas.

IRVIEW POLAND CHINAS

OR SALE - 50 extra fall pigs, both sexes, size and quality; priced to sell; de-disons maranteed. Write us. L. WARE & SON, Paola, Kansas.

NDERSON'S BIG TYPE POLANDS. aded by Clay Jumbo 54925, one of the and biggest boars in Kansas; sows of il merit: 70 good spring pigs to choose with Write quick,

W. ANDERSON. Leonardville. Kan.

6-BIG TYPE POLAND BOARS-6 st and September farrow; \$25 each if

L. E. KLEIN, Zeandale, Kansas.



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ional ing wi in se the b

KING DARKNESS
No. 149999 heads my
herd of richly bred
Poland Chinas; a
few choice pigs sired
by him for sale;
also a few sows and
glits bred for fall
litters, Write at
once,
F. J. Milly 1975

F. J. MILLER. St. John, Kan.

HADLEY, BIG HUTCH AND EXPANSION BLOOD

ston BLOOD

dominate in my herd. Herd boars:
tch Jr. by Pig Hutch and King Hadley
by Big Hadley. Among sows are Granta, litter sister to Bell Metal; Pan Print, weight 725 lbs.; Moilie S., 750 lbs., and
set Corwin, the dam of Expansion See, the
sets boar ever owned in the West. 90
be pigs farrowed to date. Visitors al-

C. W. JONES, Solomon, Kansas.

iddle Creek Poland Chinas

The large type fall boars sired to Mogul out of my best sows. herd headers and priced to sell.

W. H. EMENS, Elmdale, Kansas.

Big Boned oland Chinas

tly big, stretchy boars and glits for sired by the most noted boars. Big Had-John Ex., King Hadley and John Long and out of strictly big type sows. Write Chas

CHAS, Z. BAKER, Butler, Mo.

Choice Fall Boars For Sale

Good ones sired by Captain Hutch 39068. Barred Plymouth Rock eggs from farm range birds. Visitors welcome. J. H. HARTER, Westmoreland, Kansas.

FALL BOARS BY HADLEY BOY 48009

Out of strictly big type sows. Prices right, GEO, M. HULL, Route 1, Garnett, Kansas.

A few choice sows bred to **EXPANSIVE 34723** For fall litters for sale now. Prices right.

H. B. WALTER, Effingham, Kansas.

Albright's Big Polands

Headed by A. L. Hadley. Sows of Expansion, Skybo, L. & W. and S. P.'s Perfection breeding. Visitors welcome.
A. L. ALBRIGHT, Waterville, Kansas.

Graner Has Fall Boars For Sale sired by Guy's Monarch and out of great, big sows. The tops saved from a big crop, Out of sows noted for their size and breed-ing. Mention this paper when writing. H. C. GRANER, Lancaster, Kansas.

MADISON CREEK POLAND CHINA HERD Headed by Big Boned Pete. Sows of Mastadon and Wonder breeding, Stock raised under natural conditions; 70 pigs ready to ship, all out of mature sows, J. L. GRIFFITHS, Riley. Kan.

STONE'S BIG TYPE POLAND CHINAS.
Headed by Smith's Hadley by Mammoth
Hadley, he by Big Hadley. Sows of Moguls
Monarch, Expansion, etc., breeding, Herd
established ? years. Choice spring pigs for
sale. Sam Stone, Leonardville, Kansas.

HICKORY GROVE FARM, the home of he big boned black and spotted Poland hina hogs, the farmers' hog, and the kind hat makes the most pork. Choice males or sale, Address MAYAOR CONTROL MA GEORGE & OLLIE TAYLOR, Cameron, Mo.

WILLFOUNG'S POLAND CHINAS LEAD. Breed both big and medium type. Herd boars Big Mogul by Moguls Monarch and Fillibuster by Meddler 2nd. Over 100 choice spring pigs to select from. Also summer and fall gilts. Write for what you want. J. D. WILLFOUNG, Zeendale (Riley Co.), Kans.

S. P. CHILES POLAND CHINAS, For sale, a choice lot of spring pigs, sired Sentinel by 2nd Independence, out of S. Perfection sows and Perfect Louise and P. Louise. The dam of the Iowa chamon and junior champion last year, Writer prices. S. P. CHILES, Jefferson, Kans.

CRESCENT HERD BIG TYPE POLAND CHINAS, headed by R. B.'s Hadley, a grandson of Big Hadley. Sows large and motherly and carrying the blood of noted big sires, choice lot of spring pigs by different boars. Farm 5 miles N. W. of town, R. M. BUNNEYL. Atchison Kanses. NELL, Atchison, Kansas.

BIG POLAND CHINA HOGS.

Limestone Farm Herd, Clarksville, Mo., M. Gottswiller, Frop., breeder of big Poland Hogs, Shropshire sheep, Buff Orpingtons and Single Comb Brown Leghorn chickens, Fekin and Indian Runner ducks and Chinese geese. Breeding stock for sale.

12 Strictly Big Type Boars

Sired by King Elmo, one of the biggest and smoothest Poland China boars living. Want to make room and will price these fall boars reasonable. Fall sale October 19.

J. J. HARTMAN, Elmo, Kansas.

HOLSTEIN CATTLE

Rock Brook Holsteins

20 bulls ready for service at \$75 to \$100. Buil celves \$40 to \$75. Pedigreed and tu-berculin tested.

ROCK BROOK FARMS, Station B., Omaha, Neb.

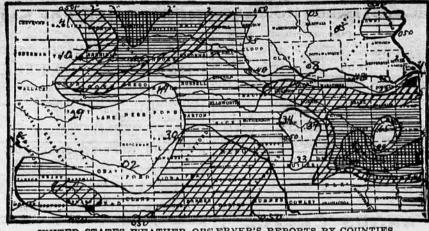
FIELD NOTES.

W. E. Long's Big Polands.
One of the good breeders of big-type Poland Chinas who has reported recently is W. E. Long of Meriden, Kan, Mr. Long writes that the season has been unusually dry and it will take rain very soon to insure much of a crin crop. The pigs are doing fine, however, and there is little, if anything, to be discovered about discouraged about.

Colonel Lafe Berger Booking Sales.
We had the pleasure of calling on Colonel
Lafe Berger last week. We found him a
very busy man looking after his farm and
alfalfa. While the colonel has a number
of fall sales booked, he still has a few open
dates. If you are planning for a fall or
spring sale, better write Colonel Burger for
a date. Please mention Kansas Farmer.

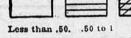
R. M. Finch's Poland Chinas.
R. M. Finch of Sheridan, Mo., is the owner of one of North Missouri's very fine herds of big-type Poland China hogs. Mr. Finch has been breeding the big type for several years and has at the head of his herd some of the best big-type boars of the breed. Among them was Sunshine Pete 42724, sired by Standard Sunshine by Standard Chief, Sunshine Pete was a massive hog of the high class big type and has a record as a breeder. His present herd header is Gay

KANSAS CROP REPORT



UNITED STATES WEATHER ORS ERVER'S REPORTS BY COUNTIES.

INCHES: SCALE IN



Allen—Recent rains have greatly benefted growing vegetation and a good corn crop seems assured. The stage of water has risen two feet in the Neosho river in the past two weeks.

Anderson—Local showers over the county.

Anderson—Local showers over the county.

Pastures starving. People making garden.

Barber—Good rain on 11 and 13 has put the ground in fine condition over this county. All growing crops have been greatly benefited.

benefited.

Barton—Wheat ground too dry to plow. Thrashing making good progress. Average yield per acre about 12 bushels.

Butler—On account of cooler and cloudy weather the corn is looking better. Have had two light showers this week and threatening, showery weather every day.

Bourbon—Rain just in time to save the corn in this district. Beans, sweet corn and rotatoes are being planted.

Chase—Some pasture cattle being shipped to market. Pastures and crops needing more rain.

Clark—Early corn damaged by hot winds. Late corn, kaffir corn and other feed crops coming on fine.

Coffey—Conditions much improved over a small area near the station, while but a few miles distant only light showers have fallen.

Decatur—Much of the corn and forage

few miles distant only fallen.

Decatur—Much of the corn and forace crops still in fair condition. Fastures about dried up, but the rain of last night will again start retarded vegetation. Pastures getting good start.

Dickinsen—Dry weather is again damaging corn.

aging corn. Doniphan-

-Showers beneficial, but more rain needed.

Douglas—Thrashing progressing fine.

Wheat yielding from 10 to 40 bushels to
the acre. Oats yield 15 to 30 bushels. Corn

Wheat yields the acre. Oats yield 15 to so the control of the cont

2 to 3 Over 3.

Much corn dead, Forage crops still thrifty, Too dry for plowing, Gove—Rain, Will help forage crops and

Gove—Rain. Will help forage crops and cern.

Greenwood—Late corn improved the past week. Pasture improved.

Harper—Week closed with rain and cooler. Some corn damaged.

Jewell—Two inches of rain on 12th, Corn looks well. Millet coming up. Alfalfa making a fine start.

Johnson—Dry and warm. Rain on 12th cooled the air. Corn benefited.

Lane—Drouth broken by local showers.

More rain needed to make forage.

Leavenworth—Conditions improved. Corn threatened unless drouth breaks.

Marshall—Light showers over county. Too dry to plow. Very little alfalfa or hay in sight.

Marion—Few light showers. No material

Marion-Few light showers. No material

Marion—Few light snowers, No material change.

Nomaha—Wheat averaging about 14 bushels. No heavy rain yet.

Norton—Rain.

Ottawa—Corn still looking well, More rain needed for pastures, corn and forage.

Pawnee—Thrashing going on. Wheat making from 6 to 16 bushels. Corn needs rain badly.

Phillips—Some showers. Alfalfa started.

Rawlins—Ehowers. More rain needed.

Corn still growing.

Rawlins—Stone snowers, Alfaira starfed.
Rawlins—Showers. More rain needed.
Corn still growing.
Rice—Fore part of week very dry and hot.
Corn damaged slightly. Feed very scarce.
Riley—No rain in past week. Late corn holding out fairly well.
Scott—Two light showers. Still dry, but cooler. Two cuttings of alfaifa.
Sedgwick—Rain during week 1 inch. Oats yield fair.
Smith—Rain July 13 broke drought. Corn fine. Gardens fair. Alfaifa reviving.
Summer—Fall plowing begun. Ground in good condition. Corn improving. Pastures getting green.
Wallace—Still needing rain. Corn doing well. Range grass short.
Wyandotte—Soil very dry. All vegetation suffering.



The above shows a group of the fine Shorthorns owned by H. H. Holmes of Great Bend, Barton County, Kansas. They are a well-bred lot and a few choice cows and heifers are offered for sale. Write Mr. Holmes for prices.

Keep On 51759, sired by Keep On Jr. 37716, he by Keep On 28553. This is am extra high-class big-type boar with extra heavy lone, great length of body and will weigh sof pounds. Grand Sunshine 57775, a yearling boar sired by Dakota Sunshine, is another of Mr Finch's herd boars that is a very promising youngster. He is a very heavy-boned, well-finished hog weighing 550 pounds at this time. A number of high-class Standard Sunshine, Keep On and Misseuri Tecumsch sows and an extra good lot of early fairowed pigs are also good feaof early fairowed pigs are also good fea-tures of this herd.

The O. M. Furnas Poland Chinas,

The O. M. Furnas Poland Chinas,

The writer called on O. M. Furnas at Oxford, Kan., last week and found as good a herd of Poland Chinas as we have looked at this year. At the head of this herd is the noted boar Master Stroke by Meddler 2d and a full brother to Master Meddler, now at the head of F. D. Winn's herd. A full brother to Master Stroke heads the herd of, Chas. Sparks at Marshall, Mo., and also Mr. Findley's herd at Smithton, Mo. Mr. Furnas will hold a sale November 20 and sell a draft of his Polands. Mr. Furnas is a young man full of energy and is starting with a good herd. We ask our readers to watch Kansas Farmer for further mention of this herd. If you need some new blood in your herd you might do well by writing Mr. Furnas at Oxford, Kan. Please mention Kansas Farmer.

C. R. Champion & Son.

C. R. Champion & Son.

A new fitm of breeders of O, I, C. hogs is C. R. Champion & Son of Raymore, Mo. They have a valuable herd of O, I, C. sows and a herd boar that is a credit to any herd. Red Silver Bill is used at the head of this herd and he has proven a sire of large, even litters. Silver Bill is a young of this herd and he has proven a sire of large, even litters. Silver Bill is a young hog with lots of scale, size and quality. In fact, he is hard to fault. Mr. Champion will hold a sale on October 30 and sell a draft from his herd. The herd contains 100 head of spring pigs, all growing out nicely and promising to weigh 200 to 250 by sale day. We ask cur readers who are real lovers of the good old O. I. C. hog to keep posted on this sale. While Mr. Champion is a new breeder, he has extra good breeding stock and is a man who knows how to grow and feed hogs Watch for further mention of this herd in Kansas Farmer and send your name in early for a catalogue, If you buy from this herd you will do yourself a good business turn.

Brockville, Kan., Feb. 20, 1904.

Brockville, Kan., Feb. 20, 1904.
CURRIE WIND-MILL CO., Topeka, Kan.
Gentlemen—Find enclosed \$— to pay for
Currie Ungear grinder. I have given the
Mill a thorough test on ear corn, shelled
corn, wheat and Kaffir corn, using the same
set of burrs, and it has given entire satis,
faction,
Yours truly,
H. A. NELSON.

lume

HORSES AND MULES

REGISTERED HORSES O. K. BARNS, SAVANNAH, MO.,

W. E. Price, Proprietor. Dealer in registered horses. Three very fine stallions to SELL AT ONCE. Also the best stud colt in the state. Write for description of stock. I can suit you.

THE BEST IMPORTED HORSES, \$1,000 each. 'Home-bred, registered draft stallions, to \$600 at my stable doors. Address A. LATIMER WILSON, Creston, Iowa,

HOME-BRED DRAFT STALLIONS \$250 to \$600; imported stallions, your choice \$1,000. F. L. STREAM, Creston, Iowa.

PERCHERON HORSES, HOLSTEIN-FRIE-SIAN CATTLE. Up-to-date Poland China hogs, Write your wants. H. N. HOLDEMAN, Meade, Kans.

ANGUS CATTLE

BIG SPRING ANGUS CATTLE. Jasper Auddridge & Son. Pattonsburg, Mo.,
Proprietors
Breeders of pure bred Angus cattle and Duroc Jersey hogs.
Breeding Stock for Sale.

ANGUS CATTE

Allendale Farm, Savannah, Mo.

Breeder of Dure bred Angus cattle—a few choice young bills for sale, Prompt answer to inquiries.

JERSEY CATTLE

FOR SALE—SIX-WEEKS-OLD JERSEY bull, out of daughter of Silverines Lad and stred by Coneris Eminent, a Golden Lad bull,

JOHNSON & NORDSTROM, Clay Center, Kan.

FOR SALE.

Yearling Jersey Bull, sired by Beatrice Stockwell and out of richly bred and good producing cow. Also cows and heifers.

S. S. SMITH. Clay Center, Kan.

FOR SALE—Ruby's Financial Count, son of Financial Count No. 61316; the dam is Ruby's Fontaine No. 212934, a 45-pound cow recently sold for \$350; gave 45 pounds of milk per day with second caif, milk tegting 5½ per cent, and with last calf at the are of 6 years gave 44 pounds of milk for a long period of time, milk testing 5½ per cent. The dam and grand dam of this cow are both 40-pound cows. Ruby's Financial Count is 3 years old and fit to head any herd. Financial Count is a half brother of Financial Countess. a cow with a butter record of 935 pounds and 10 ounces in one year. This young buil is sure, gentle and a fine individual. W. N. BANKS, Independence, Kansas.

LINSCOTT JERSEYS

Offers a few choice cows in milk and some bred heifers. Milk and butter records accurately

R. J. LINSCOTT, Holton, Kansas.

SHORTHORN CATTLE

Shorthorns Pearl

Carload good, big, strong bulls, 8 to 20 months old. Priced right.

C. W. Taylor, Enterprise, Kan.

R. R. station, Fearl, on Rock Island.

Houx's Polands and Shorthorns 50 big type Poland Chinas. March and April pigs, sired by two extra heavy boned boars. Priced at farmers' prices. Ready to ship, order now, and get choice. Description guaranteed. Also a few choice Roan Shorthorn bulls to offer, Sired by King Challenger 312040, a son of White Hall King 222724. Prices reasonable. Come or write.

W. F. HOUX JR., Hale Mo.

SHORTHORNS EVERGREEN HOME FARM.

Lathrop, Missouri.

Milking Shorthorn cattle, bred hornless.
Berkshire hogs. Oxforddown sheep. Bourbon Red turkeys. Young breeding stock for sale. A herd of 35 bred Oxforddown ewes to go at a bargain if taken at once. Address

J. H. WALKER, Lathrop, Missourl.

TENNEHOLM SHORTHORN CATTLE— Bred for beef and milk; breeding as good as the best; of Scotch and Bates lines. We use them as dairy cows and find them very profitable. A few young bulls and some fetable. A few young bulls and some ies for sale. Write E. S. Myers, Chanute,

ALFALFASHOR THOR N

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

SHORTHORN BULLS

20 head strong, vigorous young bulls, 12 to 16 months old, will be priced single or in car load lots. Also a few highly bred Scotch bulls, well suited for herd headers, priced to sell.

W. A. FORSYTHE & SON,
Greenwood, Jackson County, Missouri.

SHORTHORN CATTLE.

Barnard, Mo., Breed-Sam K. Landfather, Barnard, Mo., Breeder of Shorthorn cattle and Duroc Jersey Hogs, young bulls of servicable age for sale—also choice Heifers, high class Duroc boars and Gilts for sale at all times.

ELM GROVE FARM.

Shorthorn cattle and Percheron horses.

Write for description and prices,

INAAU NOVINGER & SONS

Kirksville, Missouri.

HERD BULL For Sale

Blossom, sired by Victorious 121469. H. R. COFFER, Savannah, Mo.

HEREFORD CATTLE

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

WARREN LANDERS, Savannah, Mo.

SPRING CREEK HEREFORDS. Headed by Christy 234417, Prairie Donald by Beau Donald 7th, and Sir Morgan by Onward 18th. Cows of Anxlety 4th, Hesoid, etc., breeding, including imp, animals, Over 100 head in herd. Few choice young bulls and some good females for sale.

TOM WALLACE, Barnes, Kansas.

RED POLLED CATTLE

RESERS RICHLY BRED RED POLLS The only dual purpose cattle. Headed by Waverly Monarch tracing to prize winning stock. Cows came from the best herds of two states; 7 choice bulls, some of them of serviceable age, and 7 cofs and heifers. The heifers and bulls sired by a 2,006-pound sire, Visitors welcome. J.B.RESER, Biglow, Kan.

RED POLLED CATTLE, A few choice young buils for sale; also a few cows and helfers.

C. E. FONTER, Eldorado, Kansas.

COBURN HERD of Red Polled cattle and ercheron Horses, Young stallions, bulls and helfers for sale. Geo. Groenmiller & Son, Pomona, Kan.

POLLED DURHAM CATTLE

BELVEDERE X2712-195058

Son of the \$1,500 Grand Victor K1635 150365 heads my herd of Double Standard Folled Dürhams. A few extra good, blocky, thick-fleshed young bulls for sale, Inspection invited. Farm adjoins town.

D. C. VAN NICE. Richland, Kansas.

HOLSTEIN CATTLE

SUNFLOWER HERD HOLSTEINS

Offers cows, heavy milkers and sound, none above 7 years old, some heifers 2 and 3 years old, two extra fine young service bulls, a car load of bull calves. Prices and quality always right and satisfaction assured. Send for bull calf catalog.

F. J. SEARLE, Oskaloosa, Kansas.

HOLSTEIN CATTLE

25 high grade Holstein cows and heifers for sale; 3 to 7 years old; a fine lot; well marked; nearly all pure bred but not re-Also one registered 2-year-old Holcorded.

stein bull, B. L. BEAN, Cameron, Missouri,

HOLSTEIN CATTLE,
The Most Profitable Dairy Breed.
Illustrated descriptive booklets free, Holstein-Friesian Ass'n of America,
F. L. HOUGHTON, Sec., 114 Brattleboro, Vt.

Rock Brook Holsteins

Special offer: Twenty bulls ready for service at \$75 to \$100. Bul calves \$40 to \$75. Good individuals, best of breeding, all tuberpully tested. Write at once.

tuberculin tested. Write at once.
ROCK BROOK FARMS,
Station B. Omaha, Neb.

WOODCREST HOLSTEIN-FRIESIANS.
Twenty registered bulls from 1 month to
Z years for sale: dams A, R. O. or A. R. O.
breeding. On Rock Island, 30 miles east
of St. Joseph, Mo., half mile from station. S. W. COOKE & SON, Maysville, Mo.

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

HOLSTEINS FOR SALE.

Some very choice young bulls for sale, mostly sired by Prince Ormsby, now owned by Nebraska Agricultural College, His dams on both sides for four generations average 20 lbs.; he has 30-lb, sisters.

J. P. MAST, Scranton, Kansas,

GALLOWAY CATTLE

FORT LARNED RANCH

REGISTERED GALLOWAYS
e. Fifteen choice registered bulls 10 for sale. Fifteen choice registered by to 20 months old. E. E. FRIZELL, Larned, Kansas

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Live Stock Auctioneer, Parsons, Kan. Continually selling for the best breeders of several states. Write, wire or telephone. Home phone 2702,

COL. FRANK REGAN Kaballa

Live stock and farm sales auctioneer. Fure bred sales a specialty; satisfaction guaran-teed. Ask those for whom I have sold, Sev-eral desirable open dates. Write, phone or

RED POLLED CATTLE

F. W. LAHR. Brooks, Ia., breeder of high-class Red Polled Cattle and Dures, sey Hogs. Herd bull Banker 16226, sired by One Price 8522, for sale. This is 41 lb. bull of the show type, and a guaranteed breeder. Will be sold, worth the matter than the prices. Satisfaction guaranteed. F. W. LAHR, Brooks, Ia.

SCOTCH SHORTHORN BULLS

Twenty head of high-class Scotch and Scotch topped bulls for sale; yearing a syear-olds; all bred right and good individuals; also herd bull Victoria Prince Scotch and Scotch topped bulls for sale; yearing a syear-olds; all bred right and good individuals; also herd bull Victoria Prince Scotch a second as a breeder; all will be sold; worth the money descriptions of stock guaranteed.

GEO. A. ROBINSON, Prescott is

DUROC JERSEYS

DUROC JERSEY

ROSE HILL DUROC JERSEY HERD

December pigs weighing 175 lbs. Some good show prospects. A splendid lot of and March pigs. Also choice gilts, bred for Aug. and Sept. farrow, and several big by boars ready for service. We will also sell a few extra good tried sows bred for litters. All stock guaranteed as represented. S. Y. THORTON & SONS, Blackwate,

12 Extra Choice Duroc Boars For S

Tops of 30 head, stred by Kins of Chapin & Nordstrom, Green, K

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Headed by Fitch's Kant by Kant Be Beat and out of a son by Ohio Chief, on the best individuals and breeders in the state. Let me know your wants.

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