# LANSAS FARMER

FOR THE IMPROVEMENT

OF THE FARM AND HOME

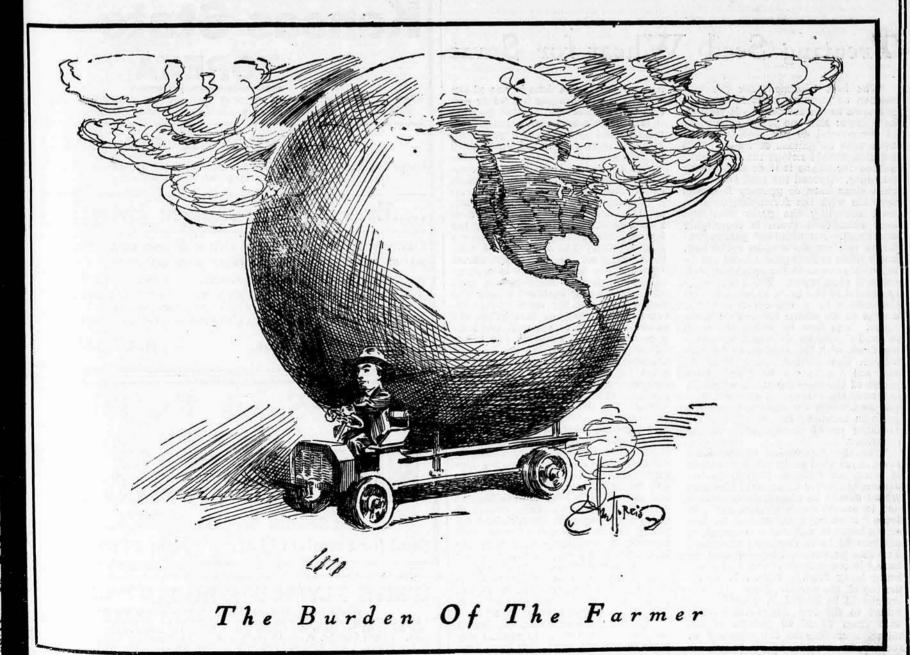
lume 49, Number 30

TOPEKA, KANSAS, JULY 29, 1911.

Es. bashed 1863. \$1 a Year

Queen upon her throne or the maiden in the dairy, all must depend upon a common source for food and raiment—agriculture. It was thus from the beginning; from the forbidden fruit in the garden of Eden to the soil product of 1911; from the time of the airy costume of Eve to the more pretentious apparel of her sisters of the present age. Obviously, then, as population increases and the food supply becomes a more vital question, agriculture will command increasing attention and respect, and the husbandman attain an importance among his fellows amounting almost to solitude.

—Jacob C. Mohler.



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# Preparation of Soil For Wheat

By J. E. PAYNE, Fort Morgan, Colorado.

In Kansas preparation for wheat means preparation for winter wheat. At harvest time there is usually

some moisture left in the soil, but if the stubble ground is left undisturbed after the wheat is cut, the intense heat in the dead stubble will soon draw the water out of the soil until it will be too dry to plow well, or to plow at all, with any comfort to man or beast. And the hard surface will shed the rain almost as well as the roof of a house, thus losing much of the moisture which falls.

But if the ground is disked as soon as the wheat is harvested, much of the stubble will be turned under. By thus reducing the radiating surface the heat generated near the surface of the soil will be lessened. This, in turn, will reduce evaporation. (If one thermometer is put at surface of the ground in undisked soil and another is placed in a similar position in disked soil, the one placed in the undisked stubble will show several degrees more heat than the one in the disked stubble.) The disced land will be in condition, also, to take in a larger per cent of any rain which falls than

the undisced land. The beneficial results of disking immediately after harvest have been repeatedly demonstrated by farmers on a large scale. The increase in the yield of wheat has in every case been enough to pay several times the cost of disking. In some cases the crop has been doubled and in many cases the difference has amounted to the difference between financial success and positive failure. If a heavy rain comes after the ground is disked it should be harrowed as soon as it is dry enough to work, but if a crust is formed which the harrow will not break, it should be disked again. But usually the harrow will break any crust which forms.

Plowing for winter wheat should be done as early in the summer as

possible. If it can be done in July and the ground is then in proper condition so that it can be packed, the plowing may safely be seven or eight inches deep. It will then have time to settle, or it may be firmed by disking and harrowing so as to make a perfect seed bed. But if the plowing cannot be done until just before seeding, it will be impossible to make a good seed bed if the ground is plowed deep. At this time the ground should not be plowed more than four inches deep.

After plowing the ground should be harrowed as fast as plowed. If a harrow attachment cannot be used, harrow before dinner what has been plowed before noon and before night what has been plowed after noon. Then, after all the field has been plowed, go over all of it with a disk harrow After this the ground should be harrowed after each rain which amounts to one-half inch or more, unamounts to one-half inch or more, until planting time. If it is not then firm enough for sowing wheat, it should be harrowed until the horses will barely make shallow tracks as they walk over the plowed ground. If the wheat ground is prepared evenly, as described above, it will pay to plant high-priced seed in it. With perfect seed and a perfect seed

With perfect seed and a perfect seed bed less seed may be sown. Also the grain can be planted at the same depth and will germinate at the same time. This will enable it to ripen at the same time, thus avoiding immature, shrunken grains which are prominent in grain which has grown in poorly prepared seed beds.

This will make a difference in the

quality of grain grown, for a few immature kernels in your wheat will cut down its value to the miller. The miller can pay the best price for only perfect wheat, and perfect wheat can be grown only under con-ditions which keep the wheat plants healthy and at their best from seedtime to harvest.

# Treating Seed Wheat for Smut

"The best treatment for the prevention of stinking smut is by what is known as the formaldehyde method, as follows: Mix one pound (one pint) of commercial 40 per cent formaldehyde with 50 gallons of water. This solution should not be made up until needed for use, as it loses strength by standing. Spread the seed wheat out on a clean barn or granary floor and sprinkle with the formaldehyde solution, shoveling the grain over and over until each grain is thoroughly moistened. An ordinary garden watering can can be used in sprinkling, but a three or four gallon hand spray er, such as is used for spraying fruit trees, is even better. When thoroughly moistened the grain should be shoveled into a heap and covered with a canvas or tarpaulin for two or three hours. The floor on which the work is done should be sterilized by washing down with the solution of formal-dehyde. The method just described will kill the spores or reproductive bodies of the stinking smut, which fill the swoolen, blackened, smutted kernels and which are scattered over the grain in handling and storage by the breaking up of these kernels in the separator.

"For the destruction of the loose smut in infected grain another method is used, as follows, known as the Jensen hot-water treatment: The seed wheat should be placed, in quantities not to exceed one-half peck each, in loose burlap bags and soaked for five or six hours in water at a temperature of from 63 to 72 degrees Fahrenheit. For this purpose a 50-gallon coal oil barrel is convenient, the sack of grain being hung from a stick laid across the top of the barrel. Meanwhile water should be heated in quantity sufficient to fill two additional barrels with from 20 to 40 gallons of hot water, according to the quantity of seed to be treated. The water for seed to be treated. The water for these barrels should be gotten to a temperature of 129 degrees Fahrenheit. This may be done in one of two ways; first, by heating the water several degrees above this point, pouring it into barrels and then testing from time to time by means of a good thermometer hung deep in the water, until it registers 129 degrees. When the water in the two barrels is at the required temperature, the sack of soaked grain from the cold water barrel is immersed for one minute in one of the hot water barrels (which should be marked No. 1) to bring the temperature of the grain up to the required point. The sack should then be transferred to the other barrel (marked No. 2), where it is allowed to remain for 10 minutes, the sack and water being agitated during the entire time, and the thermometer be-ing carefully watched throughout the entire operation to see that the temperature of the water is not below 124 degrees or above 131 degrees. It the temperature falls more hot water must be added, or the time of immersion must be somewhat lengthened. If the temperature is above 129 degrees the time of immersion must be somewhat shortened. At no time must the temperature exceed 131 degrees. Seed wheat treated as above should then be dried by spreading it out on a clean floor and shoveling over repeatedly until it is dry enough to run freely through the drill. A second and better method of handling hot water is to keep two tanks, boilers or galvanized iron tubs of sufficient capacity to hold the sack of grain well submerged, constantly at a tempera-ture of 129 degrees, over a stove or gasoline burner, the latter being pref-erable because it is easier to regulate the heat. Care must be taken not to get the temperature too high in the bottom of the tank next the fire.

"The planting of about one-fourth more seed is advisable to replace any seeds of low vitality which have been injured in the treatment."-Kansas Experiment Station.

io Ensilag

## WHY THE KANSAS FARMER GOT ONE

[Extract from a very interesting conversation between Kansas Farmer and Mr. Earlycorn]

[Extract from a very interesting conversation between Kansas Farmer and Mr. Earlycorn]

MR. EARLYCORN: I see you have an Ohio ensilage cutter. What do you think of it by this time?

KANSAS FARMER: Reats anything I ever saw. Simply can't get the corn into it as fast as it will cut it. And besides that it cuts it.

MR. EARLYCORN: But don't you have to feed it slowly to keep it from clogging! KANSAS FARMER: No, that's another of the beauties of the OHIO. If the proper power is applied, it's impossible to feed too fast. The blower is attached to the same shafts as the knives, thus preventing waste of power and insuring that ensilage will be blown into the silo as fast as it is cut. It will blow ensilage into a \$\frac{1}{2}\$. foot silo as fast as it can be cut.

MR. EARLYCORN: Why did you pick the CHIO ENSILAGE CUTTER?

KANSAS FARMER: I got it on trial. Why don't you know the OHIO is the unquestioned standard of ensilage cutters? It is used by knowing farmers of the United States, Canada, South America, Europe and Australia, and by experimental stations and other government institutions throughout the world. Any farmer or agricultural expert who has seen this cutter would not think of using anything but the OHIO.

MR. EARLYCORN: But tell me about this trial offer.

KANSAS FARMER: Why, when I was ready to buy a cutter I simply wrote to H. G. Hargrove, Des Moines, Ia. He wrote back: "Don't send me any money nor even your note. I will send the Ohio Cutter on free trial, if it does not do more and better work than any machine of its kind you send it right back at my expense." That was enough for me. I knew Mr. Hargrove would do anything he promised because I had had previous dealings with him. You know I hought my Indiana silo from Mr. Hargrove and it certainly has been everything and more than he claimed it to be.

MR. EARLYCORN: I'd like to know more about this OHIO CUTTER. How can I do this?

KANSAS FARMER: That's the easiest thing in the world, Mr.

do this? KANSAS FARMER: That's the easiest thing in the world, Mr.

Write for Mr. H. C. Hargrove's Free Book

It will tell you all about the Ohio Cutter and the Indiana Silo, two of the best money makers I know of.

MR. EARLYCORN: But won't writing to Mr. Hargrove oblige me to buy?

KANSAS FARMER: Not a bit of it. Mr. Hargrove will be glad to send you his free book whether you buy or not. Don't under any circumstances consider buying a cutter until you have investigated the Ohio.

MR. EARLYCORN: I believe I'll write for that free book tonight. What is Mr. Hargrove's address?

KANSAS FARMER: You or any of your neighbors who want this book can get it free by sending a post card to

H. C. HARGROVE



# Kansas State Fai TOPEKA

Sept. 11, 12, 13, 14, 15, 1911

EVERY DAY A BIG DAY

Large Agricultural Department. Hundreds of Horses, Cattle, Swine a Sheep. Acres of Red Machinery.

.....Evening Entertainment Every Night.

LIBERATI'S MILITARY BAND AND 20 GRAND OPERA SINGERS. PAIN'S "LAST DAYS OF POMPEII" AND GORGEOUS FIREWORKS. PATTERSON'S CARNIVAL COMPANY. GREAT FREE ATTRACTION

A WEEK OF INSTRUCTION AND RECREATION \_ SHOULD BE JOYED BY EVERY KANSAS CITIZEN. SEMI-CENTENNIAL CELEBRATION, TOPEKA, SAME DATES.

T. A. BORMAN, Pres.

H. L. COOK, Sec

Live Stock Exhibitors It Will Pay You to Show at the

At Sedalia, Sept. 30 to Oct. 6, 1911 John T. Stinson, Sec' Send for Premium List.

WHITE PLYMOUTH ROCKS Best All Purpose F in Existence.

GOOD TO LAY, GOOD TO EAT, AND GOOD TO LOOK AT. White P. Rocks hold the record for egg laying over all other breeds. 289 eggs each it year for eight pullets is the record, which has never been approached by any other riety. I have bred W. P. Rocks exclusively for 20 years and have some fine specim of the breed. I sell eggs at "live and let live" prices, \$2 per 15, \$5 per 45 and I pay expressage to any express office in the United States.

THOMAS OWEN

TOPEKA, KA

# KANSAS FARMER

AT GROWERS WASTE MOIS-TURE.

to average grower of winter tin Kansas is utilizing less than hird of the moisture that falls

humid sections each inch of rainthat goes into the soil and is abthat goes into the soil and is abed by the plant results in a yield
we bushels of wheat per acre.
ter evaporation from the plants,
ed by climatic conditions in the regious, reduces this to a of three bushels per acre for inch of rainfall passing through plant. This does not take into int the run-off or the surface oration, but takes into consideronly the moisture absorbed by

the Hays experiment station A. M. Ten Eyck secured a yield bushels per acre from a rainfall 5 inches, which is at the rate of bushels of wheat for each inch oisture. This included the run-off evaporation.

tansas has an average yield of 13 dels per acre; Oklahoma 15 and raska 16 bushels. Figured on the of scant rainfall at three bushof wheat per inch of rainfall, the sas grower has utilized each year ugh his plants 4.67 inches of ture, the Oklahoman 5 inches and Nebraskan 5.34 inches.

ased on Prof. Ten Eyck's experiof two bushels for each inch of ture, the average Kansas grower utilized altogether for his wheat ches of rainfall a year, the Oklaa grower 7.5 inches and the Ne-ka grower 8 inches.

eastern Kansas the average rainis 40 inches; central Kansas 25 to thes; western Kansas 20 inches, ing that the average wheat grow utilizing not over one-third of available moisture.

one of the leading wheat grow-counties of western Kansas the age wheat yield for 20 years has seven bushels per acre each year. statement was made at the statement was made at the stern Kansas Dry Farming connce at Hays in June by Director H. Webster, of the Kansas Experit Station. This indicates an lal use of only 3.5 inches of rain. ent Station. This indicates an pal use of only 3.5 inches of raina year. The average annual rainfor the particualr county men-ed is 23.5 inches. Utilization of 14 per cent of the available moisis pretty low efficiency in farm-

nough moisture is lost from the fields after harvest to produce average yield of wheat. Shallow ing or plowing, so common in pre-ing the ground, provides storage only a small portion of the rainand in the spring there is great of moisture because the fields not harrowed or packed.

dinary practical methods of savthe rainfall if used by the average sas wheat farmer would double yield of kheat in a single sea-

y y y

ANSAS FARMER his week contains information of tremendous valthe wheat grower. The articles from Eyck are of special imance. The wheat yield of Kansas fery much too low per acre. The clipal cause is the result of poor hode. ods of soil tillage, poor sowing hods and poor preparation of the poor seed. The great ble lies in the effort to grow too y acres, resulting in a light crop often total failure. Corn growing hods have improved the past 10 18. Not so in growing wheat

N N N n exchange, a widely read farm er, says farmers should not pat-ize demonstration and institute hs operated by railroads and that n institutes financed by bankers or porations should not be attended. reason given is because farmers indebted to this "money influwill hesitate to stand for their against such "influence." Isn't t a narrow and extremely contractand nonsensical view? No sane will share the opinion with the expressing it.

With which is combined FARMER'S ADVOCATE, established 1877. Published weekly at 625 Jackson St., Topeka, Kan., by the Kansas Farmer Company.
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Special clubbing rates furnished upon application.

ADVERTISING RATES—25 cents per agate line—14 lines to the inch. No medical nor questionably worded advertising accepted. Forms close Monday noon.

PUBLISHERS' GUARANTEE TO SUBSCRIBERS—KANSAS FARMER aims to publish advertisements of reliable persons and firms only, and we will make good to any paid-up subscriber any loss he may suffer through fraudulent dealing on the part of any of our advertisers, provided complaint is made to us within thirty days after the transaction, and it is shown that the subscriber, in writing to the advertiser, plainly stated: "I read your advertisement in KANSAS FARMER." We do not, however, undertake to settle, or be responsible for the debts of bankrupts, or for petty and trifting disputes between a subscriber and an advertiser, although we extend our good offices to that end.

PICTIIRES—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.

SET ASIDE ACRE FOR BOYS.

The farm home establishment is becoming more and more complex. One thing after another is being added to writes L. H. Bailey, in the Orange it, writes L. H. Bailey, in the Orange Judd Farmer. The farmstead comprises not only the ordinary barns and residences, but new kinds of poultry houses, windmills. dairy rooms, gasoline engines, sewing machines, rural delivery boxes, water works, lawns and flower gardens, ice houses and many other extensions houses and many other extensions and attachments are being gradually incorporated into the scheme. All these conditions tend to make the home more effective to broaden the operations of the farm people and to relate the establishment to the larger affairs of the neighborhood and the world. Many other things will be added to the farm home, because this home must concentrate into itself all the essential enterprises making for a better country life. Into the growing conception of the farmstead I desire to project another unit. On every farm there should be a piece of land definitely set aside for the children and the young folks, to be used in the developing of the intellectual interest in the farm and in country life. It is the responsibility of every parent to train the children. This responsibility cannot be delegated wholly to the school or to any other agency. If the farm family must take a real part in the educational development of its children it must then have some kind of an establishment for the purpose. This establishment should be incorporated into the school system of the district.

on every farm there should be a school garden or child garden, in which the children may make their tests, grow their plants and work out the school problems. It is impracticable in most cases to have school gardens or test plots on the rural school grounds. Such gardens should be at the home, and the children should be encouraged to take the school thought home with them and to plant it in the garden.

A list of these home gardens should be in the school house. The teacher should ask for reports from the children. She should set problems to be worked out in the gardens, and the areas should in all ways be regarded as the connecting physical link be-tween the home and the school.

This child lot might be a half acre, or an acre, near the house and the barns, permanently set aside for the purpose, and be made just as much a lart of the farm establishment as a milk house, a carriage shed, a clothes yard, a chicken yard or any other side lot of the farm. In this test area many kinds of demonstrations could be made. Here new varieties of fruits, vegetables and flowers could be tried, fertilizer tests could be made, different ways of planting, different meth-ods of tilling, and of handling crops could be undertaken, the attractive

wild plants of the farm could here be collected, bird houses could be erect-ed. This area could become in time one of the most attractive places on the farm, particularly if it were inclosed with a hedge or a wall of attractive native and other bushes, and if it were to lead down to a brook or to contain a spring, or to have a little

\* \* \* WHEAT GROWING.

The one-crop idea in wheat has been the same drawback to the plains states as has exclusive cotton growing to the south. Grown under proper conditions wheat is the most profitable plains crop, often bringing in, in a single season, more than the land on which it is grown is valued at. But years of failure come when whole communities of wheat growers are without income.

without income.

Exclusive wheat growing is demoraling. Three months in the year cover the time required for growing, harvesting and marketing a wheat crop, leaving the grower practically nine months for other work. In spite of this, the farm of the average exclusive wheat grower is nearly always without a garden and other improvements, while his neighbor who is dairying and has to work seven days dairying and has to work seven days a week every week in the year usu-ally has his farm and buildings in excellent condition, surrounded by veg-etable and flower gardens and lawn. More and better wheat should be grown in Kansas and adjoining states.

but it should be done on a smaller acreage. The nine months which so many exclusive wheat growers pass by with little practical activity should be devoted to growing feed crops and the production of pigs, beef and dairy cattle that will not only add to the profits of the farmer, but will insure manure and rotation of crops, resulting in doubling his wheat yield and improving the quality of the wheat.

Since the world's fair, Chicago, 1893, at which fair a mammoth cheese was exhibited, almost every state of pretentions in a dairy way

state of pretentions in a dairy way has endeavored to produce a larger than "ever before shown," and now comes Wisconsin which at the national Dairy Show-in Chicago this fall will exhibit a cheese weighing 12,000 pounds. It will require all the milk from 6,500 cows for one day and it is estimated it will take ksixy-five tons or 160,000 pounds of milk and cream to make the cheese. The work will be done by eighteen expert cheese makers and twenty-five helpers on a specially constructed flat car. If Wisconsin gets value received from an advertising standpoint the expenditure is fustified. The cheese itself has no value.

A five-acre potato patch irrigated by gasoline power, this year would have entirely paid for the irrigating machinery-and then some.

IN CREASES NECESSARY MOISTURE.

One of the most important recent discoveries in the handling of crops and especially of grain is that in ref-erence to the relation of soil fertility and moisture. Experiments have brought proof that the quantity of water required to produce a bushel of grain becomes smaller as the fer-tility of the soil increases. It requires twice as much water to produce a bushel of grain on an infertile soil as it does on fertile soil in good tilth. Tests showing this result have been made both in Europe and America. In every case the more fertile soil, either through tillage or the use of manure or of commercial fertilizers, the less the amount of water necessary for the production of each bushel of

The greater portion of the plant food in the soil is inert until by deep plowing, thorough tillage and early preparation it is made available to the plants. Such treatment holds moisture deeper in the soil, the air and the gases work on the inert earth and the moisture helps dissolve the plant food, increasing the number and action of bacteria in the soil, these bacteria manufacturing plant food from the earth particles.

A wheat grower who gives his fields the minimum amount of tillage, only disking his land, does little toward making the fertility available and 2,000 pounds of water for more may be of wheat harvested. The grower who follows the plan of shallow plowing secures some increase in fertility, but not enough to use the moisture to the best advantage.

Early preparation of land, deep plowing and constant cultivation until it is in good tilth, with spring har-rowing, makes the soil so fertile that only about one-half as much moisture is required to produce a bushel of grain as is required with slight preparation. Intensive tillage secures double the service from the rainfall.

Commercial fertilizers and manure, after becoming thoroughly incorporated in the soil, have the same effect. Rotation with legumes and summer fallowing similarly increase the grain producing effect of the rainfall. This is the surest way to double or treble the yield per acre.

JE 38 Judge Pollock of the United States District Court has held that the Kansas Feeding Stuffs law, requiring-manufacturers to pay an annual li-cense of \$50 for each brand of condi-mental feeds coming within the scope of the law, is unconstitutional and void. The law still provides that manufacturers must submit to the director of the Kansas Experiment Sta-tion a statement of the contents in such feeds and the experiment station will continue to make analyses as heretofore and thus amply protect the user. The dealer who has hesitated to handle these feeds because of his fear of prosecution on account of the manufacturer not having paid the annual license, now need have no fear from this cause.

× 38 The report of the Kansas State Board of Agriculture for the quarter ending March, 1911, is being distrib-uted. In workmanship the quarterly is uniform with those published for 10 years and in contents the quarterly is as valuable as any of the board's preceding publications. The first part contains the addresses, papers and discussions before the board's fortieth annual meeting, held last January, and the second part is mainly a compilation of the most recent experiments in pig feeding, steer growing and cattle fattening. This quarterly should be in every farm library. y y y

Figures made by an exchange are to the effect that it costs the annual salary of a first-class professor of agriculture to run a battleship one day. Granting that the figures are correct, does it not seem foolish to continue the extravagance and almost reckless waste? More agricultural education and less battleships would seem a sane slogan for the American farmer.

# VALUE OF SHOW RING

"What is the use of showing your stock?" is a common question asked any breeder of good live stock who makes any pretense of fitting and showing. The questioner sees and thinks of the time, care and feed used to make the show animals appear in presentable condition. Perhaps some farmer will tell you that he is unable to give such feed and attention to his stock as yours receive. He further adds that if he were fool enough to "monkey" with them that way his stock would be better than yours. A quite general ignorance of the principles and practices of the show ring has led to much unmerited condemnation of the practice.

Some of the purposes of the show ring are: educating the people, advertising, the fixing of breed standards and ideals, to give all possible incentives to improve the present productions.

The first reason, that of educating the people, is the fundamental purpose of all fairs. It matters not whether the fair be small or a national live stock show, the purpose remains the same. Amusement is combined with or furnished aside from the educational features. These fairs show the people what is possible by intelligent breeding, feeding and handling of live stock. The fair or live stock show brings some recognition and appreciation of the work of the live stock breeder from all classes of people.

Advertising is the immediate and citen the only reason for the appearance of a large number of showmen. The show ring is more effective and far reaching than any other method of advertising. It not only reaches the people who attend that particular show, but, through the reports given in the live stock press, it is much more effective than the paid advertising. A man buying a bull, a boar, a ram or a stallion from a breeder whose stock has won, will repeat the story of those winnings for his own and for that breeder's benefit. The people who attend the show will by word of mouth, often be the effective means of increasing the popularity and sales of a herd or flock. The breeder himself, by his attendance at these fairs, comes in close touch with the needs and wants of his customers. He may be able to arouse interest and procure an outlet for his surplus that will materially increase his income.

The misson of the live stock show

Herdsman Declares It Pays To Exhibit Live Stock At Fairs

By THOMAS E. CLARKE, Medora, Kansas

in fixing breed types is appreciated by everyone who has given the matter any study. Before the day of the big stock yard shows, The American Royal and The International, several different types abounded in each of the different breeds. This was especially true among the beef breeds of cattle and hogs. Now, with only two or three exceptions, the same general type prevails in each breed. These shows are responsible for this uni-

O. E. Reed, Professor of Dairying, Kansas State Agricultural College, writes:

IMMATURE CORN MAKES GOOD SILAGE

"Many fields of corn have been seriously damaged by the present drouth. The corn that has been tasseled and is about to fire will make very little, if any, grain this season. If this is cut for fodder the quality will be very poor and it will hardly be worth feeding; but it may be put into a silo with very good results. Such silage will not have the feeding quality as the silage made from corn that is fully matured, but the stock will eat it and do well on it. In comparing silage made from such corn with fodder made from the same corn, we have a fairly good feed in the silage as against a very poor feed in the fodder. This silage fed with hay or straw makes a good wintering ration for cattle.

"When siloing the short, immature corn it is best to let it stand until nearly dry before putting it into the silo; that is, the leaves should be nearly dry but the stalk should be filled with sap. If the corn is put into the silo while in a very green and sappy condition the silage will get very sour before it is fed out. Silage will not make as good feed or be as palatable to the stock if it is allowed to become too sour.

"If the present corn crop is not sufficient for filling the silo, one can plant kafir, milo or ninety-day corn and, provided that we get any rain at all, these crops will mature for silage before frost. Corn or kafir can be listed in fields that have been in oats or wheat, and if sufficient rain falls to germinate the seeds, silo crops can almost be insured."

Prof. A. L. Haecker, Nebraska Experiment Station, says:

"From such information as I have, such drouth impaired corn is a little higher in protein but lower in carbohydrates than the mature plant. The plant in the young stage, or immature stage, has more protein but less carbohydrates. The starches and sugars are stored up during the latter part of the growth. With this in view, it is fair to assume that the feeding value of such forage will be perhaps lower in carbohydrates but higher in proteins, and therefore, nearer a balanced ration than they would be otherwise. Taken all in all, it would be fair to assume that this forage while being less in tonnage, would be almost as valuable, ton for ton, or pound for pound, as mature crops."

formity of breed character more that any other factor. So potent has this influence become that now any farmer or stockman can get nearly as good an idea of breed character at his own county fair as he would by inspecting the entries at the larger shows. In this respect the live stock is very useful and effectual in fixing and advancing the ideals toward which all live stock breeders are working.

The incentive given the exhibitor and spectator to try to excel in the future is one of the great values of the show ring. Everyone's stock look good at home. A comparison of our own animals with others will give us a much more accurate estimate of their real excellence. Should we win one blue ribbon this year we will be content with no less than a champlorship next year. If our beast is not so high we note his defects and resolve to correct them in subsequent entries. Maybe the interested spectator at the edge of the ring will propose to bring out some of those good specimens he has at home. The feeder at the ringside has visions of market toppers such as those cows or sows in the ring could produce. Even the small boy, at the fair with he father for the first time, will dream of the time when his bull or his boar will be a winner. The herdsman think not now of the unceasing care and the rainstaking work that have been his lot. He only rejoices that his charge are placed among the best.

In answer to the argument that feeding for show is conducive to in fertility, I can say from some observation and considerable inquiry that this is the case only in rare instances. We occasionally note that some show cow or sow breeds only once or twice or not at all. No account is given the working cows and sows that are in every herd, who breed only once of twice and then must be butchered. I believe I am safe in saying that the percentage of infertility is a greater among show stuff than it is among those receiving common care. The present tendency of discouraging excessive fitting will also reduce the control of the control

this evil considerably.

It is not my purpose to give a exhaustive study of the value of the show ring. I only hope to show to the farmer and breeder that the fittle and showing of all classes of purbred live stock do a great and lasting good. The show ring benefits the herd, it benefits the breeder and benefits the people at large.

In a circular issued by the Kansas State Experiment station in the fall of 1910 the chinch bug received attention at the hands of T. J. Headlee, entomologist and zoologist as follows:

"Again the chinch bugs have established winter quarters in clump forming grasses. They may be found more or less under all sorts of cover, but the threatening bunch of them has gathered in the bunch grass. Those parts of the state greatly troubled with chinch bugs have much of this grass, and the problem of chinch bug destruction during the dormant season involves the destruction of it and other grasses of similar habit. Of the clump forming grasses the species commonly known as bunch grass (Andropogon scoparius) is most sought after by these bugs."

"The farmer must know for himself whether he has chinch bugs in his grass lands. This he can determine by parting the stems close to the place from which they start. Ordinarily a mulch of soil and decayed grass will have gathered at the base of the stems. He should look carefully in this and should not give up the search at once, because the bugs play 'possum and are not easily seen until they move. If the bugs are abundant they will be revealed by this search. In case more careful looking is required to observe them, take a clump of the bunch grass, root and all, and pick it to pieces over a large sheet of white paper or cloth, watching for the bugs. If they are present in any numbers worth considering this should reveal them.

"Fire at once occurs to one as the most practical and efficient agent for the destruction of the bugs. Obvi-

# THE CHINCH BUG

Begin Now Destruction Of Next Year's Big Crop-Clean Up The Farm

ously fire must destroy the bugs in one or both of two ways; First by burning them and, second, by destroying their cover and leaving them exposed to the rigors of winter. The first method requires either that sufficient heat shall be generated to effect their destruction, or that they shall be actually partly or completely consumed by the fire. The first requires an unusually hot prairie fire, such as might result from the consumption of a very heavy cover. The second requires very close burning—consumption of the stems to within about half an inch of the crown. Little harm seems to be done to the bugs by ordinary prairie fires, which do not burn closer than one inch from the crown.

"The prime requisite, then, in firing the infested clumps of grass is to so handle the fire as to make it burn close to the crown from which the stubble grows. The type of firing which gives this desirable result appears to vary with weather conditions and must be selected by the individual farmer at the time of treatment."

Tests made by the station show that close burning destroys practically 100 per cent of the bugs.

The circular goes on to say: "There may well be a question in the minds of some as to whether close burning will not injure pasture lands and meadows. Most farmers with whom we have worked believe that it will not

seriously harm the grass or decrease the yield, especially when done only

once in several years.

"Neglect to destroy these bugs, and with winter, spring and summer favorable to them, wheat, corn, cane and kafir will suffer severely and will, in many cases, be completely destroyed."

Another matter that calls for consideration is the widespread and erron-ous belief that if the chinch bugs become dangerous next year, they can, regadless of weather conditions, be controlled by the introduction of a fungous disease among them. Our investigations show that this fungus (Sporotricum globuliferum) though present among the bugs, will not always control them. In June of 1909 fields in Harvey and Sumner counties were examined and wherever chinch bugs were found there also the fungus was present During July the station had an agent in the field in Sumner county collecting chinch bugs that had died of this fungous disease. When, on October 1, we resumed our study of the chinch in the field in this county, we found scattered over the fields of corn and kafir corn bugs dead and whitened with this 'chinch bug fungus.' In many places, even as late as November 15, in their winter quarters in the same county, bugs in small numbers were dying of this disease. Here, then, is a case in which the bugs were more abundant and did more damage than in any other section of the state in spite of the fact

that the disease was present among them continually throughout the season. If weather conditions had bee favorable to the disease, it would doubtless have controlled the pest, but as matters went it did not do so and no amount of official introduction of the fungus in this instance could have brought relief from the ravages of these insects. During October and November we made repeated attempt to introduce the disease artificially among the bugs massed together clumps of bunch grass by placing their midst bugs whitened with the spores of the fungus But in every instance we secured only negative results."

Chickens Clear Fields of Grass-

hoppers.

Prof. Headlee, of Kansas Experment Station, has received this leter from P. A. Wright, Nekoma Kan "We have a neighbor who has we chickens. He put a wagon box on sled and hauled the half grown chickens to the field and let them out of water and shade. In a few day you would be surprised to see the sults. They will jump out of wagon box in the morning and will be spread over one acre of ground be spread over one acre of in a minute, and the way busines will pick up is a caution. Then the will pick up is a caution. Then the all come in at nine o'clock for water will lay off till five. I believe they will lay off till five. I believe they will all would do this, it would be good bye grasshopper. I just wish yo could see them perform. It is a sight of the position of the property of

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# RESULTS OF TILLAGE

Greatest Possibilities of Conservation Lie In Conserving Soils Moisture

The two pictures with this article ell the whole story much more forc-ly than any words. The corn shown as in adjoining fields and planted on as in adjoint and each field was in he hands of farmers considered qually good. The planting was done he same day, all conditions of growth onsidered equal.

On about August 1, the field showng least growth showed no moisture of a depth of three feet, while the eld showing larger growth had lenty of moisture under the surface and was fairly well eared. The smaller corn is practically a failure and he folder placed in a silo will give the only value. ts only value.

The difference is the result of till-ge. The good field was so cultivated hat the moisture was retained and lid not evaporate during the six weeks of dry weather. The secret of moisture conservation lies in the cultivation of the surfage to the extent lmost of a dust mulch.

Further ideas regarding the advantges of good tillage are given by W. C. Palmer, of North Dakota experiment tation, who says the more nearly constant the moisture content of a soll can be kept the more available clant food it will have.

The moisture is all the time exertng a solvent action, bringing plant

food into a form that the plant can use. It, however, does something else fully as important and that is to make it possible for germs to live. These germs work on the insoluble plant food and make it available. The importance of this work is usually underestimated. When the soil becomes dry the solvent action of the water ceases and the germs become inactive; many of them die. Thus the two principal agencies that make plant food available are cut off at once. The effect that drying has on bacteria is well illustrated in drying bacteria is well illustrated in drying fruit or hay to make it keep. The killing of the germs is a good deal like allowing the live stock to die from thirst or hunger. It will take some time to restock the farm again, and likewise it will take some time for the germs to increase so as to do the work needed to produce a big crop. A big crop can not be produced without them.

The greatest damage is usually done after harvest. The soil is compact, the crop is removed and the rain scant. The land should be disked as soon as cut, in fact follow the binder with the disc, which loosens the surface soil and kills weeds that take large amounts of moisture. This

will save a good deal of moisture.
Organic matter is also necessary for
the germs to do well. It furnishes



them food and enables the soil to hold Deep plowing is one of the most more moisture.

effective ways of keeping a good moisture content in the soil. It also gives the germs more space to work in, as they live principally in the soil turned with the plow.

The germs are a sort of live stock



and the more live stock kept on a farm the more germs there will be in the soil due to rotating crops and applying manure.

Don't neglect the soil germs even if they are small. There are so many of them, and they are working for you just as much as your horse or

# SUMMER FALLOWING

I am one of the unfortunates, being he owner of a half section in the western part of Thomas County, near Brewster. Crops have burned up combletely this year and they were nearly a failure in 1910. I have always wanted the tenent to summer fallow but it is very difficult to get anyone to do it. However, I now have a man willing to do it. willing to do it and willing to learn and I am seeking the best instruction I can find for our mutual benefit. Was very much interested in Kansas FARMER reports of the meeting in your city on the 7th and 8th inst., and I enclose money order for \$1.00 for membership in the Kansas Dry Farming Association.

We had 160 acres on which wheat collapsed about July 5, and another 100 acres which was in Milo which lasted a few days longer but is how a failure. The 100 acres has been cultivated so that we still have a little moisture and we want to summer tle moisture and we want to summer fallow along the best known lines, the 260 acres now under the plow.
Thursday my tenent and I tried to persuade several farmers out there to summer fallow this summer as they have very little other work to do and will be able to give the system a thorough trying out.—W. L. Harrison, Leavenworth, Kan.

l am mailing you pamphlet on Dry Farming. In an extremely dry year like this all methods fail. Our wheat on summer fallow turned out to be only a little better than wheat after wheat. Early in the season, however, there was a marked difference in favor of the wheat on summer fallow but the extremely hot dry weather of early June blasted the heads and caused the grain to wheat dried up instead of maturing.

A comparison of different methods of summer fallow favored June plowing with sufficient surface cultivation to destroy weeds and maintain a soil mulch. The plan was to cultivate when necessary to destroy weeds and after each heavy rain which is sufficient to pack and puddle the surface soil, causing a crust when the surace is dried out.

The cultivation should be given before the crust forms. It is usually not advisable to surface till the land when it is very dry since it pulverizes the soil into dust and leaves a surface which does not receive water well and which is inclined to puddle with heavy rains and bake very quickly afValuable Suggestions To The Wheat Grower By Prof. A. M. Ten Eyck

ter drying. We use different implements in cultivating, the disc, common harrow and Acme harrow, or the common straight-toothed harrow may be used when there is not many weeds but prefer to ride the harrow so as to make the cultibation deep. The slicking effect of light harrowing is undesirable since it leaves the soil finely pulverized at the surface and in condition to shed heavy rains. For later cultivation toward seeding time we often use the Acme harrow or the straight toothed harrow may be used. The disc harrow at this time is apt to loosen the soil too deep. The ideal seed-bed should be mellow and loose to the depth of 2 or 3 inches or about as deep as the wheat is planted. Be-low this depth the soil should be well pulverized, firmed and settled, the fur-row slice making a good connection with the sub-soil.

If plowing for summer fallow it is advisable to plow rather deep if the soil is in favorable condition. We plan to plow 6 or 8 inches deep. Our plows have disc harrow attachments which disc the ground immediately behind the plow. This saves the extra discing or harrowing which otherwise should be given within a few hours arfer plowing. We do not usually use the subsurface packer after plowing for summer fallow but depend on the property and letter cultivation to pulyer. rains and later cultivation to pulverize and pack the seed-ebd. In a very which does not pack easily, or often when the soil is plowed too dry and cloddy, it may often be advisable to use the subsurface packer immediately after plowing. Continue the cultivation, disc or Acme at intervals as directed above.

The ground which is to be summer fallowed may be disked occasionally during the spring, or, in the judgment of the writer, a preferable plan is to grow some crop for green manure and plow it under early in June. testing this plan at this Station and hope to have some results for publication next season. Crops which we are testing for green manure are sand vetch, sweet clover and field peas. The first two should be sown early in

the fall and may furnish some early spring pasture. Field peas should be seeded early in the spring. It is practicable also to sow rye or early spring grains as green manuring crops, but there is a strong objection to the use of rye for this purpose when the plan is to follow with wheat.

Early plowing for wheat approaches a summer fallow and unless the soil remains too dry, farmers should be able to plow much earlier than usual this year. After plowing, whether the plowing be in June, July or August sufficient cultivation should be given to put the soil in good seed-bed condition. In case the ground becomes too dry before plowing it will be advisable to disc such land thus putting the surface in better condition to rethe surface in better condition to re-ceive water and conserving, perhaps some little moisture which may yet be in the sub-soil, at least the disking will have the effect of putting the soil in better condition for plowing. Or, in case plowing cannot be done, further disking and harrowing may put the land in good seed-bed condi-tion.

In the judgment of the writer it is not always advisable to plow western land every year in preparing the seed-bed for wheat. In dry seasons the preparation of the seed-bed by disking may give better results than plowing. The writer desires to warn our western farmers against very deep plowing too frequently, especially in those sections of the state where the soil is light and inclined to

drift badly with the heavy wind.

The wheat farming problem in western Kansas is a difficult one and cannot be successfully solved by following any set rule or method every year. The farmer should understand the principle of seed-bed preparation and soil moisture conservation and then practice the methods which in his judgment will most economically secure the best results .- A. M. TenEyck.

LISTING WHEAT GROUND. I have been reading Mr. Ten Eyck's article on wheat culture in your June issue, in which he spoke of a new method being used in Kansas for pre-paring a seed-bed by listing the ground

and then working down by disking and harrowing.

Now I want to ask if that method will do in this section, to use on oats ground that was corn ground last year but on account of drouth will not do but on account of drouth will not do to cut. If so, when would you advise listing? When to follow with the disking? Will the same be true of wheat land this year. My method was to plow the oats ground as soon as rain fell and then disk and harrow and plow wheat land in same way as soon as wheat is moved from field. It lowing to a depth of five inches.—F. C. JONES, Washington, Kan.

C. Jones, Washington, Kan.
The testing of the listing method for preparing the seed-bed for wheat at the Experiment at Manhattan has not shown that this new method was equal to early plowing. I am mailing you circular No. 2, being the report of several methods of preparing the seed-bed for wheat including listing. This report refers to two years' work, the crops of 1908-1909. You will observe that the August plowing gave a vield of over 10 bushels more per yield of over 10 bushels more per acre than the early listing. The plowing and listing compare as follows: Early plowing, average yield for two years 37.43 bushels per acre; early listing, average yield for two years 27.5 bushels per acre. The early listing, however, was superior to early ing, however, was superior to early discing and to late plowing.

As a rule I would prefer to plow the

oats ground which you describe rather than to list it in preparing the seed-bed for wheat. There is some advant-age in turning the vegetable matter under so as to furnish some green manure. There may be much in list-ing in preparing land for wheat when the farmer has more than he can plow at the proper time, since the listing may be done faster than plowing. Also, I believe the method may have more advantage in our Western drier climate where the soil dries out quickly and often becomes too dry to plow well before the farmer has finished plowing. Also, the lister furrows catch the rain and store it in the subsoil which is likewise an important factor in the drier areas of the State.

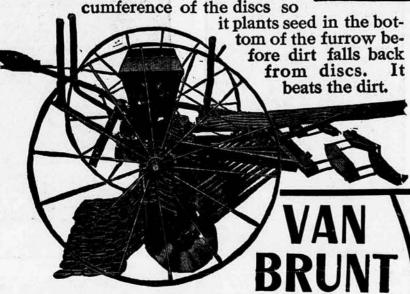
We have found that the disc lister cultivator is superior to the disc harrow for refilling the furrows. One cultivation with the disc lister cultivator and one or two harrowings with the straight tooth harrow will usually put a listed seed-bed in fairly good

condition for sowing.

# **Latest Improvement** on Grain Drills

This new Van Brunt Forward Seed Delivery plants every seed at equal depth and covers every seed so it is sure to grow if it has a germ of life. The seed discharge is within the cir-





# SINGLE DISC

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# THE FARM



Notice that the land which was well manured has not only withstood the dry weather but has remained in good tilth and required very much less moisture with which to grow a crop.

There may be some good in a dry spell after all. It affords an excellent opportunity to get rid of weeds and when these are once thoroughly eradicated it will require less work to keep them down.

Cow peas are among the best of farm crops for Kansas. They produce a good quality of grain, a highly nutritious hay and they enrich the soil. They were once very popular in some sections where they are seldom seen now. Inquiry as to why this is so brings the answer that "it is too much work to harvest them."

#### Alfalfa South of the House.

Kansas farmers have learned one fact that is well worth knowing. In addition to the planting of windbreaks for the protection of the orchards and buildings they have learned to plant alfalfa on considerable areas south of the house.

Corn shuts off the breeze, wheat or oats leave a stubble which greatly increases the temperature after harvest, but alfalfa will easily cool the atmosphere about the house by 8 or 10 degrees if a considerable acreage is grown to the south or southwest so that the wind may lose its heat in blowing over it.

The writer lives on the south side

of the road and the country south and west of his house is largely in alfalfa. He is not bothered with dust and the air always seems cooler than at the neighbor's across the way, who gets a plentiful supply of dust and heat from the road.

#### Alfalfa Seed Crop.

A subscriber asks what to do with his second crop of alfalfa which was sowed last fall and which now stands about 15 inches high. He owns a good alfalfa farm and the first crop made excellent hay. He is not a resident farmer but has a superintendent who has always made his farm pay for him. His idea is that the very dry weather of the past few weeks are conducive to an excellent seed crop, and that it would pay to save this second crop for seed.

Ordinarily this might be true but an examination of the alfalfa plants in this field shows short seed pods with

With the crop standing 15 inches high, as it does at this writing, and with very few and short blossoms, the chances are that the crop will be worth much more as hay than as seed. The weather conditions are such as favor the production of a high quality of hay and one that has a much better feeding value than is found in ordinary years.

From the sample submitted from this field it would seem more profitable to cut the crop as hay than to try to make a seed crop of it.

#### Cultivation of Wheat.

It often pays well to harrow wheat in the spring when the surface is dry and crusted or cracked. Use a spike toothed harrow with the teeth slanting backwards and do your first has rowing as soon as the frost is out of the ground. This loosens up the surface, reduces evaporation, fills the cracks and keeps the air from drying out the roots. Usually it causes bet-ter stooling. The harrow produces an earth mulch which reduces evaporation from the surface, warms up the soil around the roots and induces more rapid growth. Do not harrow when the ground is mellow, as that will result in pulling out many plants. To or three spring harrowings of winter wheat, a week apart, are usually sufficient for profitable results. If conditions of soil and moisture are both favorable, spring harrowing will not increase the yield.

If the soil in spring is very mellow,

soon as the frost is out of as soon as the Irost is out of a ground the sub-surface packer show be used, otherwise the plants will be out of the ground, or the soil blow badly that the roots are exposed at the plants die. Use the packer und the plants die. these conditions just as soon as

these conditions just as soon as ground is dry enough to work, necessary, weight the packer, so the it will compact the soil sufficiently.

I know of wheat fields that we saved last spring by scattering the all over the field coarse manure and immediately running the stream and immediately running. old straw and immediately running over it with a sub-surface packer. This prevented blowing. If this med od is followed while ethe wind blowing the packer must be used w the straw is being spread. This we used what the straw is being spread. This we crush enough of the straw into a ground to anchor it and the bulk maining above the surface preventhe wheat from blowing. If there no sub-surface packer at hand a decrease will appear the number of the surface packer at the surf harrow will answer the purpose setting the discs at a very slight angle and weighting the machine.

#### About Potatoes.

In speaking of the prospective pot to crop of this year Prof. J. C. Cu ningham of the Horticultural depar ment of the Agricultural Colle stated that "the situation as to pot toes was the same last year in to north, in Minnesota and North Di lote as it is now in Kansas Wi kota, as it is now in Kansas. Wi little or no rain the yield was to 60 bushels an acre. Those potatos which we used for seed, were the best we ever had, plump, hard and acres.

crisp.

"The best plots this year are the which have been sprayed with Bo arsenate of lead. The deaux and arsenate of lead. The sprays have kept away insects a fungous diseases. The Bordeaux see to stimulate the leaves.

"Another thing that should tead big lesson to potato growers a big lesson to potato growers Kansas: The man that fall plowe after the potatoes were out, is the man who will get the best crop the year. After the potatoes were due arly in July, cow peas and tuning were sowed, and plowed under about the potatoes of the year. This was designed to the potatoes of the year of the year of the year. October 1 to 15. This was det plowed, being 8 to 12 inches deep. The graund was disked and harrows in the spring and the potatoes plan ed. These potatoes were cultivate at least once a week until the groung of too dry for further success working. Land treated in this will yield 75 bushels of potatoes the acre this fall.

"The dry weather has brought daster to several garden crops, partiularly peas and beans. Ordinarily man is justified in expecting to g these legumes under almost any d cumstances, but few gardeners we record a fair yield this year. Pea for instance, are so scarce that it Kansas City they are held at a bushel. As in the case of potato peas and beans have developed verbeautiful vines and very little els many gardeners have abondoned the crops entirely where water is scarce. crops entirely where water is scarce

Kansas Fruit Prospects.

Secretary Walter Wellhouse of the State Horticultural Society report the fruit prospects of the state, his June ollows, in campa ac f ison with those of the two preced

years.	4010	- 1
S. Carrier and S. Car	1911 1910	
Apples	33 51	
Pears	27 31	
Peaches	10 50	
Plums	26 01	
Cherries	63 21	
Grapes	69 60	
Strawberries	37 40	
Raspberries	46 39	
Blackberries	54	
D	Matwicks t	16

By congressional districts the apple prospects are 25 per cent for the first, 44 for the second, 34 for third, 34 for the fourth, 34 for the seffth, 35 for the sixth, 43 for the seffth and 23 per cent for the cight district district.

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RITE TODAY FOR FREE PAMPHLET. prices on finely ground phosphate rock, cheapest and best of all phosphate fer-is, W. J. Embry & Co., Columbia, Tenn, Swine Succumb to Sunstroke.

Swine should be fed plenty of green food in order to keep their digestive tracts in the best condition. should be supplied with plenty of pure cold water and an abundance of shade and a sanitary wallowing place.
Fat hogs are extremely susceptible

to sunstroke as they cannot perspire freely and have their body tempera-ture reduced by the evaporation of the perspiration as can the horse. An excellent plan is to frequently swab the hogs' bodies with water to keep them cool. A hog prostrated by the heat should be conveyed to a shady place where cool water should be poured on the head and neck but not over the rest of the body.

Saving Moisture.

In the matter of saving moisture in the soil a good many of us are a good deal like the rabbit in the fable. the winter time he was always speaking of building a house next summer. When summer came and he was reminded of it, he answered: "Every bush is a house now." When a good bush is a house now. When a good shower comes we ought to get the moisture into the soil and keep it there. We have no assurance that we will have more rain right away, that there will be enough to ripen the crop, to put the soil in good condition for plowing, to leave the soil with a good moisture content for next spring. More can be done in the thirty-six hours following a rain than at any other time.

If the soil is too dry, then save what little moisture is left. Remember that moisture can not pass up through loose soil.—W. C. Palmer, North Da-

#### Hot Weather Horse Care.

During periods of excessive heat work horses are liable to suffer from sunstroke. Sick or soft horses or those afflicted with indigestion are most liable to succumb. Every precaution should be taken by the owner to fit the animals to withstand labor in hot weather. Young horses, especially, should be worked lightly during extreme heat and care should be observed to prevent indigestion developing.

Such preventive precautions as feeding hay only at night and morning, giving pure, clean drinking water before meals and in small quantities throughout the day, removing the harness at noon and allowing sufficient time for rest and mastication of the food should be practiced. The horses should be groomed at least once a day and their stable should be frequently cleaned and thoroughly ventilated and screened. Little corn should be fed as it is too heating, but sound old oats can be plentifully supplied. Shading the horse's head while at work is advisable, but absolutely avoid using heavy, wet sponges for this purpose.

#### Oats for the Summer Silo.

I have been interested in the articles in your paper regarding the growing of hay. Timothy hay is the poorest and the dearest feed a farmer can raise. I would advise farmers to build silos and then raise oats and peas, oats alone, or millet, for hay and fill the silo for summer feed and for fall feeding until corn is ready. You all know the summer of 1910 was very dry and the pastures dried up. On the fifteenth of July I cut eight acres of oats and blew them into my silo and fed my cows nothing else from July 15 until we filled the silo with corn. During that time we sold \$540 worth of milk, and my cows looked and milked as well as when on grass. Farmers must get out of the old ruts and quit growing hay that only produces from one to two tons per acre, while peas and oats, or oats alone, or millet, will produce a better feed and not take so much fertility from the soil.

Let farmers wake up to the new and better methods of farming our high-priced lands, and build silos. Raise soiling crops and corn for silage, feed it to stock and return the fertility to the soil.-B. G. PATTERSON, Grant. Co.,

Kerosene Emulsion.

One of the oldest and most serviceable of insecticides is kerosene emul-An emulsion, in this case, is a mixture of those proverbially unmixable substances, oil and water. To accomplish this a third substance, called an emulsifier, is needed. For or-

dinary work as an insecticide soap is used as an emulsifier. In some cases, where a large quantity of the mixture is needed, other emulsifiers are used.

Commonly the emulsion is made in the form of a stock solution which is afterward diluted to the strength

required for the application. The formula for the stock solution is as follows:

Water ...... 2 gallons

Thoroughly dissolve the soap in two gallons of boiling water. Remove the water from the stove and while it is still hot add the kerosene. To make the emulsion it is necessary to stir this mixture very thoroughly.

When the stock solution is made it is ready to be diluted and applied. ure kerosene is very dangerous to plant life, and emulsions are dangerous in less degree. It is necessary that one should know something about the susceptibility of the plant. For growing plants it is seldom safe to use the emulsion stronger than one part of kerosene to sixteen of water. Many plants will not stand it quite so strong. To make this strength from the above solution, since the stock is half kerosene, one should add one gallon of the stock solution to seven of water. For winter work, when trees are dormant, the emulsion is used much stronger.

#### Back to the Farm.

"I am very much interested in the letters of farm and city life. I was raised on a farm, but what I thought was shorter hours and large wages attracted me to the city. Now I have done better than the average. In fact, I am master mechanic in a \$1,500,000 plant and receive a salary of \$1,800 per year. It costs all I make for five of us to live and I must work 12 to 13 hours regularly, and I have put in as much as 42 hours without rest, and sometimes considerable night work.

"Now, who ever heard of a farmer "Now, who ever heard of a farmer working 15 years for his board and clothes, and working 12 or 13 hours per day in the field and sometimes that long of nights for three months at a time?" is the way a writer in the Fruit Grower puts the case.

"Some farmers talk about city folks getting to see good shows, etc., but we have not seen a single theater of a circus in 10 years. We have not the time or money.

time or money.

"There are several things the farmer does not figure before he comes to town. For instance, house rent or taxes, which are 3 per cent of actual valuation; water tax, light and coal or gas and then old, stale vegetables. It would stagger Samson to see how large the bills are and how little you

get for the money.

"As for sociability, it is all sham.
You go to some club or society and size up what your neighbors wear and then go home to scheme how to get something they did not have. In fact, the principal object in city life is to live beyond your means and out-splurge your acquaintances and make them jealous. The poor, abused farmer comes to town about once a week, while I have had four days off, when I went to the hills camping, in 12 years. And yet I have fared better than the average in getting along in this world.

"I, for one, want to get back to the farm. Not the large farms of old, but about 40 acres, with fruit, chickens, bees, horses, cattle, pigs, etc., and make that 40 acres work. I will not have the care and worry and long hours and, above all, I can get a few fresh vegetables, fruit, eggs, milk, etc.
"What has the city man for the future? By the time he is 50 he is cast

ture? By the time he is 50 he is cast to one side for a younger man and no one cares how he may live after that. It all looks fine as to what a city man can make, but never a word as to what it costs him to live. Consider the number that fall by the way in all kinds of temptations. You have more real friends out in the country, for in town your friends often last just as long as your money and credit and not

one minute longer.

"The evil of the time is to desire something you have not. That is, country folks think the town family has so much more enjoyment, advantages, etc. They do not; and what they do have they pay dearly for. I, for one, want to chuck it all and get back to the simple life, and I can say the same for one-fourth of the town people, and that one-fourth have their eyes opened. But who wants a discarded city man?

HINGE-DOOR Hinge-Doors are always in place-can't sag, bind or stick. Greatest improvement ever placed on a Silo. Malleable iron Hinges form a convenient and dependable Ladder. Powerful Steel Door Frame prevents collapsing or bulging. Send for catalog. (Formerly selveritsed as the Nebraska Hinge-Door Silo) and the Kansas Hinge-Door Silo and Mahreak Silo Col. Nebraska Sile Co.

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PURE WATER is essential in fattening hogs.
Buy an ever-ready, never-leaking HANDY FOUNTAIN. It will not corrode or rust, attaches easily to tank, barrel or pipe and is superior to all others in its valve—the most im-NOVELTY IRON WORKS, Sterling, Ill.



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### Wheat and Clover Many farmers stick to wheat raising mainly because clover follows it in the rotation. But why not get the best possible out of both crops? No crop returns better profit for the right fertilizer than wheat. What is the right fertilizer? That depends on the soil and on what fertilizer you have used on it. The longer you have used phosphate the sooner it will pay you to balance it with Insist on your wheat fertilizer containing 6 to 8 per cent. of Potash. Potash Pays on both wheat and clover. If your dealer does not carry Potash, write us for prices, naming quantity needed, and ask for our free books, "Fall Fertilisers" and "Home Mixing." They will show you how to save money and increase profits. GERMAN KALI WORKS, Inc. Baltimore: Continental Bldg. Chicago: Monadnock Block New Orleans: Whitney Central Bank Bldg.

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# THE STRAY

GEO. THROCKMORTON, County Clerk, Coffey Co., Taken up, by Ano. Saueressig. Californie, Kans., one light red yearling heifer. White bush on end of tail. Appraised value, \$15.00.

#### I'll Save You \$50 On a Manure Spreader If You'll Let Me



# LIVE STOCK



Stringy Milk.

I have a Jersey cow 6 or 7 years old that gives stringy or ropey milk. Is it garget and what is the remedy? The milk is all bad.

Ans.—Yes, it is a result of garget and the condition of her blood. Take three ounces of potassium iodide and water to it sufficient to make twelve ounces and give a tablespoonful in a half a teacup of water twice a

#### Sore on Boar's Side.

I bought a Duroc Jersey boar from a man in Illinois and when he arrived I noticed he had a sore on his side. At first this appeared to be a wart but later a hole appeared. The sore never healed and sometimes breaks and runs. I have fed him well and taken first class care of him but he never has any ambition and never notices a sow.—J. C. S., Vinita, Okla.

Ans.—The boar is no doubt injured

in some way. From the symptoms given would advise employing a qualified veterinarian to examine thoroughly and treat accordingly.

#### Value of Pure-Bred Hog.

Judge E. E. Axline of Oak Grove, Mo., is one of the most successful swine breeders ever produced by that state. In a recent article he says that the value of pure-bred hogs depends largely on the care and attention given them. Care and attention pay well when given to any kind of live stock, and if we have pure-breds we naturally feel more interest in them and will take better care of them than if they were grades of inferior qual-

Pure-breds breed evener, are more uniform in color, have more style and finish. They feed quicker, mature and develop earlier, with less fat than most grades. This makes them more profitable for the farmer and feeder to grow and feed and, of course, they are better sellers.

As a breeder for more than 20 years I have found that it pays to breed pure-breds, and as a farmer and feeder for over 30 years I know it pays well to raise the best for feeding purposes.

A carload of pure-breds of any breed of a uniform style and color will always command a premium on the market. Pure-bred dams are generally of a quiet and gentle disposation and can be easily handled at farrowing time, which is a great help in saving litters, especially when far-rowed in bad weather, in winter or early spring, when it is essential that the young pigs be looked after. Pure-breds of the best quality are

ready for market at any age. A pure-bred of 100 to 150 pounds will often sell for more per pound than a heavier and older hog.

If disease should get in your feed lot, or even in your immediate neighborhood, your pure-breds are ready to go to market at any age, and they will always sell higher than grades

of any breed of the same weight.

It pays well to breed, feed and sell pure-breds of the very best quality of any breed in preferences to grades.

#### Your Horse's Pedigree.

Under the laws of Kansas stallions which stand for public service must be passed upon for soundness and pedigree by the Live Stock Registry Board which is composed of Dean Ed. H. Webster, chairman; Dr. F. S. Schoenleber, veterinarian; and Dr. C. W. McCampbell, secretary. All of these officers have their headquarters at the Agricultural College, Manhattan, Kan., where they may be addressed.

The follwing list of associations, societies and companies are the only ones that are recognized by law as having authority to issue pedigrees. If your stallion is not recorded in one of these he is not considered a pure bred, and will receive a certificate as

being only a grade animal, provided he is sound and entitled to any certifi cate.

The recognized register companies and their secretaries are as follows: Arabian Horse Club of America, H. E. Bush-Brown, Newburg, N. J.

Cleveland Bay Society of America, R. P. Stericker, West Orange, N. J. American Clydesdale Breeders' Association, R. B. Ogilvie, Union Stock Yards, Chicago, Ill.

French Coach Horse Register Co., Chas. C. Glenn, Columbus, Ohio. French Coach Horse Society of America, Duncan E. Willett, Oak

Park, Ill.

German Hanoverian and Olden-burger Coach Horse Society of America, F. Crouch, Lafayette, Ind.
National French Draft Horse Asso

ciation, C. E. Stubbs, Fairfield, Iowa National Register of Belgian Draft Horses, J. D. Conner, Jr., Wabash Ind.

American Hackney Horse Society, Gurney C. Gue, 308 West 97th St., New York City.

Morgan Register, T. E. Boyce, Middlebury, Vt. Percheron

Society of America. Wayne Dinsmore, Union Stock Yards, Chicago, Ill.

Percheron Registry Co., Chas C. Glenn, Columbus, Ohio (now merged with the Percheron Society of Amer-

American Percheron Breeders and Importers Registery Co., F. A. Forney, Plainfield, Ohio. American Saddle Horse Register, I.

B. Nall, Louisville, Ky. Shetland Pony Club, Julia M. Wade, Lafayette, Ind.

American Suffolk Horse Breeders' Association, Alexander Galbraith, De Kalb, Ill.

American Shirt Horse Association, Chas. Burgess, Winona, Ill. American Stud Book (Thorough-bred), W. H. Rowe, 571 Fifth Ave. New York City.

American Trotting Register, W. E. Knight, 355 Dearborn St., Chicago, Welsh Pony and Cob Society of merica, J. W. Jones, Columbia,

America, J. Tenn.

This list should be preserved as animals recorded in any other registers can only be ranked as grades in Kansas.

#### Sowing Wheat Through the Corn.

Thousands of farmers cut their com and put the land in wheat. It's a good plan and brings excellent results. But often the corn is too green to cut when the proper time comes for diling the wheat. What then? The one horse grain drill solves the problem lt enables the farmer to drill his wheat at the proper season regardless of the condition of his corn. To any one contemplating the purchase of a one-horse grain drill, for sowing be tween rows of standing corn or for sowing shock rows, we recommend investigating the Kentucky. This drill is made in plain grain and can also be had with detachable fertilizer hoppers which can be attached to a plain one horse Kentucky Drill at any time. Purchaser can have either hoe or disk This drill has the Iurrow openers. same feeds as the large Kentucki They are manufactured by The American Seeding-Machine Co. morporated, Richmond, Ind., who will be pleased to send you their Kentucky One-Horse Grain Drill catalog.

The Kentucky is "good as wheat in the mill," and is strongly guaranteed. Go to your implement dealer and insist on seeing the Kentucky.

Can you make a home and living on 80 acres of good Kansas land? If you had all the cash you needed to equip such a farm for both a moneymaking farm and a comfortable home equip such a farm for both a money making farm and a comfortable home just tell the president of the KANSAS FARMER Co. how you would spend that money and he is ready with a bunch of prizes to distribute among those who have the best ideas. vided ertif

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An alfalfa association has been or-nized by the farmers of central Illi-is. The object is to learn every-ing possible regarding the success-growing of alfalfa.

"There is no other way to tell which win the herd is a free boarder, tside of the scales and tester. Withtit the dairyman will seldom if ever cceed."-ED. TANSKY.

The heifer is the future cow, and as ch she deserves attention, if a prof-ble animal is desired in the herd. re must be taken to give her the ht start in life. A set-back in her uth will affect her later usefulness.

The oleomargarine fraud is being rd hit. Recent indictments involve most persistent and flagrant violas of the law, and the information as to the belief that employees of efederal department of internal enue have been allied with oleoargarine manufacturers in violating

The late June and early July butter The late June and early July Butter ake, on account of short pastures, s been lighter than usual in Neaska, Kansas, Missouri and Oklama. But in Illinois, Iowa, Wiscont, Minnesota, the Dakotas, the sean has been extremely favorable and e make large.

This is a year when it makes a big ference whether you are feeding d milking a cow giving 15 pounds milk a day or one giving 30 pounds. is a good time to look into the procing capacity of your cows and eding the most profitable.

While we are thinking of forage ops, would it not be well to rememthat July and August are in some ctions of the state the best months sowing alfalfa—the king and en and whole royal family—of forplant tribe. One acre of this lendid forage crop is worth two res of clover, three acres of prairie y and so far ahead of sorghum, affir corn or corn fodder, that you n't afford to be without alfalfa.

Prepare for good stabling this win-The less feed you have the eater the need for properly housing e cows and calves. It's always eaper to keep the animal body arm by stabling than by allowing animal to burn a third to a half its feed to maintain the animal at. Feeding in the stable also econ-nizes in the feeding operation. Feed always cleaned up better in a mant than when placed in racks or rewn on the ground. The dairy cow give a good return for stabling.

When feed is short is a good time be sure that the feed used is given a profitable animal. For instance, which calved early last spring anot be expected to give much milk is fall and winter. It will not pay feed her heavily for milk—she had tter "rough" it and the feed innded for her given to some cow
hich will calve this fall. Feed well
lose animals with the care he expected nais which can be expected give the best return—let the others t along on a ration which will keep leir "body and soul" together—that if feed is short.

## Sweet Curdling of Milk.

I would like to know the cause of ilk from my 18 months old Jersey effer curdling and turning to clabber hile milk is still sweet.—Mrs. H. This is a case of sweet curdling of

The trouble is probably not due the physiological condition of the ows giving the milk, but is due to acterial action.

There are certain types of bacteria hat will cause the sweet curdling of These bacteria gain entrance the milk through the water supply relse through the dust of the air.

If the water supply on the farm is contaminated with this bacteria one should take special care to see that all milk vessels washed in this water are thoroughly sterilized before using. If the contamination comes from the dust of the air, care must be taken in the milking, and also in keeping the milk covered with a clean cloth at all times.

The fact that the heifer's milk soured before curdling when it was placed in a separate container seems to show that the fault is not entirely with the heifer. We have had several cases of sweet curdling milk quite recently.—O. E. REED, Professor of Dairying, Kansas Experiment Station.

Improving the Dairy Herd.

The story is told how a Mr. Kinch, a Swedish dairyman, increased the yield of his herd of cows. In 1900 he was milking seventy cows, which produced an average of 7,320 pounds of milk per cow per year. Most Kansas dairymen would consider this a very fair production. Mr. Kinch, however, was not satisfied and he began to systematically test his cows by keeping a record of the amount of milk given each day by each cow and by testing it for butterfat, and thus de-termining the amount of butterfat given by each cow for a year. He found that in the year 1900 each cow gave him an average of 245 pounds of butterfat. Of the seventy cows, however, he found that at the end of the first year's testing. the first year's testing only twenty-eight were good enough to justify him in keeping them for breeding and dairy purposes. He sold the others and kept only these twenty-eight with the heifer calves. In the year 1901 these twenty-eight cows averaged him 272 pounds of butterfat per cow. In the year 1902 he had forty-six cows which averaged 317 pounds of butterfat. In the year 1903 he had fifty-five cows which averaged 350 pounds of butterfat. In 1904, he had sixty-one cows which averaged 376 pounds of butterfat; in 1905, sixty-four which averaged 399 pounds of butterfat; and in 1906 seventy-one which averaged 401 pounds of butterfat. At the end of six years he had reached his original number of cows, but each cow's milk during the year 1906 averaged 156 pounds of butterfat more than each of the cows that he was milking in the year 1900. He not only increased the production of each cow, but he decreased the cost of feed. For example, in the year 1900 he got 10.1 pounds of butterfat for each 100 feed units, while in the year 1906 he got 13.2 pounds of butter for each 100 feed units. In other words, he not only increased the production by over 6 per cent, but he reduced the cost about one-third. A Swedish feed unit is equal to 2.3 pounds of bran or eight-tenths of a pound of oil cake, or thirty-six pounds of silage, or sevention years of creating the contract of the cost of the c teen pounds of green clover.

What this Swedish dairyman did in these six years can be done by any Kansas farmer who will put his mind and his time to the work. All that is necessary is to first begin to weigh and test the milk of the cows you have on hand at the present time. At the end of the year or sooner you will know which of the cows are paying you for their feed and which are not. Sell the poor cows, keep the good ones, and their helfer calves, or if necessary buy a few more good ones and keep up the work of test-ing year after year. Within five or six years the yearly yield of the herd be increased from one-third to two-thirds.

A high grade, guaranteed durable live rich red barn paint is sold by the Sunflower Paint & Varnish Co. of Ft. Scott, Kansas, direct to the consumer at only 85c per gallon in 5 gal. cans, freight prepaid. This is a paint propfarmer. This is a reliable company and now is paint season. Try this



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Others have paid good money to learn that disks are not needed in a modern separator, and that cheap machines lose their cost in cream the first year.

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what others lose.
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This is to certify, That I have this day received one "Atlar" E-Z Seal Jar Free of all cost and without any obligation on my part. This is the first coupon

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# HOME CIRCLE



Ladyfinger Sandwiches. Spread raspberry jam between the cakes. Place together. Decorate with whipped cream.

The Nation's Playground.

"Let's see! Canon City is where we get our coal!"

Such was the remark of one of our Kansas neighbors as we were about to "burn our bridges behind us" and set our faces toward Colorado, as a possible goal for health, wealth and consequent happiness.

Whether or not the object has been

attained is quite another story.

As a matter of fact, our neighbor's point of view concided with our own up to the time of personal investigation.

Howbeit, from the moment the visitor lands in this mountain town, the situation grows on him in a surprising way, and with eyes open to conviction, discoveries are made daily of the real charm of Canon City and its surroundings. If he is on a tour of pleasure, he has only to be directed to one of the many scenic drives leading out in almost every direction, which are the pride of its citizens.

are the pride of its citizens.

In order to obtain a comprehensive idea of the beauty as well as the profit afforded by this part of the great Arkansas valley, the first trip should be taken over the "Sky Line Drive," either by auto or carriage, according to the scheduled regulations laid down by the city authorities, which are advertised in bold ties, which are advertised in bold characters at the starting point.

This driveway, a marvel in itself, was built by convict labor a few years ago, and sarting from the Penitentiary, it has been walled and graded up as smooth as a turnpike over a long stretch of hogback, some hun-dreds of feet, among the footbills just west of the city, which from the summit looks like any other growing town with the exception of its unique environments.

As the visitor drives slowly up, over the narrow ledge, and still up until he has an almost dizzy sensation of being suspended in mid air, he takes a deep breath and looks around.

To the north looms the dome of Mt. Pisgah over in the region of Crip-ple Creek, with Pike's Peak a little to the right, poking his hoary head over the lower ranges. Eastward the eye takes in a sweep of four thousand acres of green irrigated orchards on either side of the river, laid out into small ranches wherein lies the wealth of its inhabitants. Still farther toward the home land stretch many ward the nome land stretch many acres of desert wilds, covered with sage brush and cacti; only waiting for storage, by mechanical devices of the surfus mountain snows to cause it to "blossom as the rose."

Sheltered by the wastern people that

Sheltered by the western peaks that stand sentinel at the entrance of the famous Royal Gorge, and watered by the big ditches whose intake is from the Arkansas river that flows down between, is the scene of large garden spots with glass green houses, looking like white roofing glistening in the sunshine. Red and green irregular piled slopes stretch away toward the larger Green Horn mountains toward the south, which view completes the circle of his vision as he descends to the security of the lower levels. The "Skyline Drive" is coming to

be only a gateway to the new Royal Gorge boulevard, which, under the management of the Business Men's Association, was formally dedicated on the 12h of May.

The Royal Gorge is the narrowest capper through which a reilroad has

canon through which a railroad has ever been built.

The hanging bridge about five miles from the entrance is constructed lenghtwise of the river to insure the passage of trains through the most contracted opening, and is suspended by iron arches pinned to the solid rock from side to side. The Royal Gorge Park, at the top of the wonderscenic attraction—an area of about two by three miles, belonging

to the city, was the objective point for

the opening of the new roadway.
"On to the Gorge, see it from the top" was the slogan of a multitude of visitors from Pueblo, Colorado Springs, Salida, La Junta and towns more distant, as well as a host of in-terested citizens.

To prevent danger of collision, in passing over some of the narrow passages, officers were stationed at intervals, to direct the line of travel in one direction until the noon hour, no one being allowed to return until after the time limit.

The first five miles after descending from the Skyline leads up the long grade that has been cut through the granite cliffs of Priest Canon, and on its way to the rim of the Gorge the road winds and doubles on itself in 199 distinct curves, passing through an elevation of 2700 feet en-

Each turn in the road keeps the traveler on the alert for some added scene of beauty, and he is rewarded at vantage points all along the way, by glimpses of variously formed rocky or pine covered mountain peaks with interlying green valleys, and vistas of the white Sangre de Cristo range some fifty miles away—all an indescribable panoramic scene not soon to be forgotten.

On his arrival at the top, the visitor's first impulse is to rush to the edge, and unconsciously catching hold of a friendly rock or tree to counteract a creepy feeling, he leans over and looks down into the haz depths from which massive rocky walls of various formation, splotched with green vegetation rise a sheer three thousand feet on either side, lagged and clear cut against the deep

The Arkansas river brawls along looking like a silver ribbon, the seemingly miniature railroad with toy trains frequently passing, following every bend of its course, only visible here and there where not closed in by some of the rocky projections that seem to meet midway. But his appetite at length calls him to the scene of practical operations. The autos have been "parked" on one level space and the vehicles on another. Gallons of coffee are served by the management and sandwiches to those not provided with picnic lunch, so that no teetotaler need go away thirsty or

A stand had been erected for the speakers and the program was a fine one.

Gov. Shaffroth spoke on "Colorado the Play Ground of the Nation," followed by other enthusiastic speakers interested in good roads, and a "Greater Colorado."

The drive back to town was made by the nearly two hundred autos and numerous carriages, without a hitch, many of the crowd participating in the Japanese lantern-auto parade in

the evening. The city was in festive attire for the occasion, which was followed the next day by the Flower Festival, with the most elaborate and artistic display it has ever been our good fortune to witness.

The morning parade consisted of the wee tots with their decorated doll carriages, Teddy carts, flower queens and pages, daisy floats, sunbonnet babies, parasol girls, Japanese rick-shaws, boy scouts, cyclers, and other attractions with a train of followers, all making a beautiful and attractive sight that called out the most ardent enthusiasm from the crowds that thronged the streets.

The afternoon was given over to the citizens parade which represented with gorgeous effect every phase of business, educational and social life, as also the various orders and clubs.

The "Advance of Spring" was mar-

shaled by young lady riders with decorated horses, the young men following as "Knights of the Orchards."

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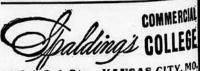
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The Penitentiary Band headed the procession and another from an Italian coal camp added to the musical pleasure.

It would take pages replete with superlatives to describe in detail the various pleasing effects of the day's pageantry. Commendations were heard on every hand and hundreds of visitors carried away at the close of the two days' festivities, enlarged visions of "The City Beautiful" which is fast coming into its own as a "tourist town," as well as a city of rural orchard homes.—Clara A. Gerhardt,

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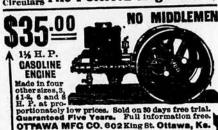
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The poultry market seems to be growing larger every year. People in the cities and towns haven't entirely forgotten the taste of fresh country

Eggs are much cheaper this summer than last, though why we cannot imagine, for all meats are just as high in price as ever. More eggs ought to be used in preference to meat, for they are cheaper than meat and more nutritious.

Poultrymen as a rule object to having their hens roost too high, but they could have no objection to those Boston hens roosting on top of one of the highest hotels in that city, though they may be the highest roosters in the world. An employee of the hotel has been keeping successfully a flock of 25 hens on the roof of the hotel. Located in the very center of the city, the birds thrive and lay well and a flock of young chicks is being raised to keep up the supply of hens. If hens ought to thrive anywhere where, they ought to thrive where they can get plenty of table scraps, for they are the best ration for lay ing hens that can be furnished, and refuse leavings from a large hotel must be enormous. No need to feed the hens anything but table scraps. And just think of the perfectly fresh eggs that the guests can have! The guest would have no need to inquire if the eggs were perfectly fresh, for he might hear the hen cackle over the egg that was cooked for his break-

New Bulletin on White Diarrhea of Chicks.

Bulletin No. 68, of Storrs Agricultural Experiment Station, is now ready for mailing. This publication bears the title, "Bacillary White Diarrhea of Young Chicks—Second Report,' 'and brings up to date the investigation of this disastrous disease, which, for the past two years, has been conducted by Dr. Rettger and Prof. Stoneburn.

The bhlletin is a pamphlet of 28 pages, illustrated with a number of half-tone cuts and drawings. It discusses briefly the scope and character of this important investigation up to the present time, and the interesting results secured. Several pages are devoted to a consideration of matters of practical interest and suggestions as to possible means of combating the

disease. Copies of this publication will be mailed free to interested positrymen requesting it. Application should be made early, as the edition is limited and will doubtless soon be out of print. Requests should be addressed to Prof. F. H. Stoneburn, Storrs, Conn.

Summer Bowel Diseases.

It frequently happens that diarrhoea develops in flocks which have had good care, and the farmer mistakes the complaint for cholera or some other disease with which he is unfamiliar. The cause of the complaint can usually be traced to the free use of When tenvery watery, green food. der weeds, grass, rye and other bulky foods are largely consumed by the fowls, the result may be a laxative effect, but this generally occurs when the green food is very young, at which stage of growth it contains a large proportion of water and very little solid matter. The effect is more noticeable when the fowls have had but litte green food before, having been kept on a grain diet. A remedy for the compaint mentioned is to confine the fowls to their yards for a few days and feed them twice a day on a ration of ten parts corn meal, two parts sifted, ground oats and one part fine bran, adding a gill of linseed meal and a teaspoonful of salt to every quart, cooking the whole as a bread.

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#### CATTLE.

FOR SALE — DOUBLE STANDA Polled Durham herd bull; Lord Victor 6471-(258569); sire Lord Mayor, dam tcria 5th; sound and all right; priced r sonable. Frank Michael, Erie, Kan.

WANTED TO EXCHANGE, INTERE bearing notes for 6 good young milk to profer Holstein of Guernseys; also fara sale, J. T. Schnelle, Lebe, Kan.

FOR SALE—FINE REGISTERED I sey cow, with her daughter—both in the milk flow. Will make low price for wale, Write for price and full information of the sale, Write for price and full information of the sale, Write for price and full information of the sale, Write for price and full information of the sale, Write for price and full information of the sale, which was sale, which will be sale for the sale for

JERSEY CATTLE, COLLIES, POLA Chinas and White Wyandottes; one & Collie pup, female, 6 months old, a trained, nicely marked, natural heeler, U. A. Gore, Seward, Kan

#### POULTBY.

BRE all a time

R. C. R. I. REDS FROM PRIZE. ning stock, Mrs. L. C. Pierce, Riley, Ka

BARRED ROCK BABIES AND BRE ers, Eggs, 15, \$1.00; 60, \$3,25; 100, \$4 Mrs. D. M. Gillespie, Clay Center, Kaa,

PURE-BRED BLACK MINORCA HE 75 cents each. Clara Doege, Tongam Kansas.

S. C. BUFF ORPINGTON EGGS ; per 15, \$6 per 100. Mrs. Ella Sherbu Fedonia, Kan.

SILVER SPANGLED HAMBURGS clusively; nothing better, J. L. Brown, B, Kearney, Neb.

S. C. R. I. REDS, STOCK AND EGGS sale in season. Write for prices, M & Moore, 1239 Larimer Ave., Wel Kansas.

ROSE COMB REDS. BARGAINS yearling hens and cocks. Eggs ½ 1 now. F. A. Rehkopf, Topeka, Kansas

BUFF WYANDOTTES—BARGAIN I ces for balance of season. Eggs 41.34 15; day-old chicks 15c each. High swe birds only in breeding pens. A rare to get a start from high class stock 6 to get a start from high o Wheeler, Manhattan, Kan.

BIG SPECIAL SALE—2,000 CHiCK and ducks; Orpingtons, Rhode Island I Wyandottes; Orpington ducks, White I ners, Fawn and White Runners and worther varieties; we have what you are ing for at a big reduction and will quote you prices; write us. J. M. Rai Son, Clarinda. Ia.

#### DOGS.

FOR SALE—Rabbits, Collies, St. Bern pupples, goats, John Krech, 39 Western Blue Island, Ill.

COLLIES; 100; PUPPIES, BR bitches and broke male dogs. W. R. son, Oakland, Iowa.

SCOTCH COLLIES, 7 MONTHS OLD cach. F. M. Read, Tecumseh, Kan. 1.hone 3721-3.

SCOTCH COLLIES—PUPS AND TO dogs from the best blood in Scotland America now for sale. All of my bitches and stud dogs are registered; trained and natural workers. Emporis nets, Emporia, Kan, W. H. Richard,

#### OILS.

BEST KEROSENE AT \$2.60 PER gallon barrel; crude dip at \$2.35 per il lon barrel; \$1.50 allowed for kerosese gasoline barrels returned when empty; fail to get our prices on your oil in the Rollin Oil Refinery, Chanute, Kansai (Oldest Independent refinery in Kansai

MISCELLANEOUS.

FOR SALE—TEN THOUSAND BE posts. H. W. Porth, Winfield, Kans.

FOR TRADE—A GOOD THRES utfit for western Kansas land. With Trousdale, Newton, Kan.

E. R. BOYNTON HAY CO. KA City, Mo. Hay receivers and shippers

FOR SALE—BEE SUPPLIES. W. for catalog. O. A. Keene, 1600 Seward Topeka, Kan.

USED REMINGTON NO. 6 IN 6001 der; recently overhauled; a bargain if at once. Write 18, care Kansas Farmet peka, Kan.

MAMMOTH WHITE RYE; CH seed; Poland China bred gilts; one choice bred registered Collic. John Der, Hiawatha, Kan.

FOR THAT FAMOUS ROCKY Ford.
White extracted, \$10 per case of 2 cans; comb honey at market price.

PUNCTURED TIRES REPAIRED minutes; no patch, cement or dough lutely permanent; reliable; agents which is good to be seller. Lincoln Specialty Co., and beldg. Lincoln. Neb.

Bldg, Lincoln, Neb. FINE STANDARD-BRED REGIST horses, mares and fillies, to exchange western Kansas land; give description price. Max J. Kennedy, Fredonia, K

JOHN E. BARRETT, Co. Clerk son Co. Taken up—1 horse, age 3 height 5 ft.; color gray; on the 19th July, 1911; by Emil Welde, Yates Co.

W. A. Forsythe & Son, Greenwool, son county, Mo., are offering 10 for strong, vigorous Shorthorn to 16 m They range in age from 12 They range in age from 12 They and are big, strong fellows. They for bred and priced very reasonably for sale. Write your wants and mention sas Farmer,

# DLAND CHINAS

#### POLAND CHINAS

Mastodon Poland China hogs, the big-boned type that will weigh, when mature, 1,000 lbs.; Mastodon Price, sired by A Wonder, leads this herd. A number of to 1,000 lbs.; Mastodon Price, sired by A Wonder, leads this herd. A number of tall boars for sale, also toppy spring boars. If you want the right kind they tallity Ridge Farm. Phone me at Dearborn, Mo; Railroad Station, New Mart Quality Ridge Farm. Phone me at Dearborn, Mo; Railroad Station, New Mart Address CLARENCE DEAN, Weston, Mo.

LONE ELM POLAND CHINA HERD

J. M. Pemberton, Fayette, Mo.

der of big-boned, high-class Poland China hogs.
A lot of very high-class February and Murch pigs for sale; can furnish no kin; all
k guaranteed as represented; also safe delivery at your station, and will be sold
h the money. If you want big-boned, high-class Polands, write me at Fayette, Mo.

#### GILDOW'S BIG TYPE POLAND CHINAS

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 gilts either bred or open.

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

ge fine fall gilts at a bargain, either or bred to my mammoth young boar. pics by five great boars, Orders and pics shipped after weaning, low to move. Write your wants. C. Mil.l.HiAN, Clay Center, Kansas. ne Idana 68-22.

LDWEIN'S BIG TYPE POLANDS.

A by Kansas Leader by Union Leader,

d by a grandson of Bell Metal; sows

pansion, Hadley, Tecumseh and other

pe breeding; choice lot of spring pigs,

TER HILDWEIN, Fairview, Kansas.

GS WA

INS 12 P 15 B 1.50 1 Sco 1 Sco 1 Sco 1 Sco

BIG POLANDS,
a B, Lawson's Herd, Clarinda, Iowa.
ig, smooth kind. Pigs for sale sired
ong King's Equal. Book you order
Pigs farrowed in February and early

ROSE LAWN POLAND CHINAS, g Darkness by Meddler 2d, assisted oversas Meddler by Meddler 2d head rid of richly bred Poland China sows, i spring gilta by On the Spot for Sud, MANDERSCHEID, R. 3, St. John, Kan.

EYSTEAD'S BIG KIND POLAND CHINAS

CHINAS
ins the breeding of about all leading
pe sires. Herd boars O, K, Hutch by
Jr. and Commander B, by Big Comtr. 75 choice pigs to date. Visitors
nt.
R. REYSTEAD, Mankato, Kansas.

ner's Big Smooth Poland Chinas

d by Metal's Choice by Mo. Metal, he ell Metal. Eighty early spring pigs by this hoar. Expansive, Big Price, Themas and other good sires. Dams dare big and motherly and have the kind of big type pedigrees. Visitors me.

r. J. MEISNER, Sabetha, Kansas.

TRYKER BROS,' HERD POLAND
CHINAS.
greatest show and breeding herd in
test. Write your wants and they will
you. Buy the best and make the
They breed the kind that win; the
bat you want, Address
REYKER BROSS. TRYKER PROS., Fredonia, Kan.

## RVIEW POLAND CHINAS

sale, boars fit to head herds, sired by fadley, Correct Thickset and Triple Bf-also 90 choice spring pigs. For descrip-ind price write

P. L. WARE & SON, Paola, Kan.

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

W. ANDERSON. Leonardville. Kan. MCOATS BIG POLAND CHINAS.
Id headed by the line bred Expansion
Bell Expand by Bell Metal. 50 of the
Pirs we have ever raised now ready
let from. All but one litter by boar
mentioned and out of mature sows
along popular lines and strictly big
Ruy early and save heavy express
Wil also sell Bell Expand.
B. AMCOATS. Clay Center, Kansas. Will also sell Bell Expand. B. AMCOATS, Clay Center, Kansas.

Ward

RED ugh; ts wa

ts '

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
gilts bred for fall
litters. Write at
once.

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

RADLEY, BIG HUTCH AND EXPAN-

ominate in my herd, Herd boars:
h Jr. by Big Hutch and King Hadley
y Big Hadley. Among sows are Granliter sister to Bell Metal; Pan Prinweight 723 lbs.; Moilie S., 750 lbs., and
Corwin, the dam of Expansion See, the
set boar ever owned in the West. 90
t welcome.

C. W. JONES, Solomon, Kansas.

idle Creek Poland Chinas

Few large type fall boars sired th Mogul out of my best sows. herd headers and priced to sell, ace.

W. H. EMENS, Elmdale, Kansas.

## Big Boned oland Chinas

big, stretchy boars and gitts for the the most noted boars, Big Had-DEX., King Hadley and John Long of the Hadley and John Long to of strictly big type sows. Write May 1.

CHAS, Z. BAKER, Butler, Mo.

78800 230 WARE

KANSAS CROP REPORT

UNITED STATES WEATHER OBS ERVER'S REPORTS BY COUNTIES.

INCHES: SCALE IN



Less than .50. .50 to 1

Anderson—Having some rain. Ground in good shape for plowing.

Parber—Good general rains. Vegetation improved. Large crop of late corn.

Barton—Threshing nearly finished. Plowing for wheat begun.

Bourbon—Corn making good progress, plenty of rains for all crops. Beans, potatoes, cow pees, cane, etc., being planted in great quantities.

Butler—Good rain, 2.18 inches. Helped iate corn, pasture and kafar.

Chase—Rain fell slowly and all went into ground.

iate corn, pasture and kafir.

Chase-Rain fell slowly and all went into ground.

Chautauqua—Rain. Will give good pastures and plenty of water. Also late corn benefited.

Cloud—Good rains have helped grass.

Corn condition uncertain,

Decatur—Everything growing nicely since rains. Outlook for forage good. Corn doing well.

Dickinson—Corn doing well. Plowing in pregress. Ground in good condition.

Doniphan—Moderate temperature with one good shower.

Elk—Rainy week, good for corn and kafir. Flax heavy cut.

Greenwood—Corn improving. Plenty of stock water. Pastures doing fine. Late grain planting. Sowing cow peas and cane for forage.

Gove.—Somewhat cooler, but need rain.

Harper—Low temperature and cloudiness. Vegetables being planted. Better corn crop than anticipated.

Jewell—Cloudy, rainy and cooler. Good prospect for corn. Ground wet deeper than plowing. Alfalía growing fire.

Johnson—Pleasant week. Few showers have revived pastures and corn. Planting stock feed. Rain is needed.

Lane—Cooler with local showers. Prospects brighter.

1 to 2. 2 to 3 Over 3. T. trace

Leavenworth—Lower temperature and humidity have made a change for the better. Corn better, sweet potatoes and tomotoes fine.

McPherson—Good showers. Corn revived, Much seeding of sorghum, kafir and mil-let; also gavdens. Grass coming. Marion—Corn improving. Everything

Marshall—Rain fell generally.

Marshall—Rain fell generally.

Nemara—No heavy rain yet. Corn looking fairly well. Alfalfa will be good yield.

Threshing done.

Threshing done.

Norton—Everything is fine. Corn and frage growing. Pastures recuperating.

Pawnee—Showers; weather cloudy and damp. Corn helped greatly.

Phillips—Weather cool. Some fine rain.
Corn coming out.

Rice—Good growing week. Threshing about one-fourth done, with good quality.

I:iley—Light rains have freshened everything up.

thing up.
Saline—Good rains will make at least partial coin crop. Good hay and fodder

partial corn crop. Good hay and fodder crops,
Scott—Mest of county has had heavy rains, Feed crops doing well,
Sedgwick—Rainfall, 1.55. Corn, alfalfa and all other crops developing.
Scward—Wheat threshing. Corn, broom corn and maize in fine shape.
Sumner—Rains have revived corn. Some cars ready for roasting. Plowing for wheat.
Washington—Splendid rains. Conditions good. There will be corn.
Woodson—Corn and kafir will make good crop.

woodson—corn that and win make good crop.

Wyandotte—More rain needed. Corn benefited.

#### FIELD NOTES.

Herd Boars.

A. J. Erhart & Fon of Adrian, Mo., are offering a chice lot of spring boars for sale. They are all the large-type breeding and well grown out. Please look up ad in this issue of Kansas Farmer and write them.

J. A. Winebrenner Sells September 15.

J. A. Winebrenner of Tipton, Mo., has claimed September 15 for a fall Poland China sale. Flease watch for further mention in Kansas Farmer of this herd. If your name is not on the list, it might do you some good to ask for a catalog and read it carefully.

M. E. Moore & Co.'s Holsteins.

Attention is called to the change in the card of M. E. Moore & Co. of Cameron, Mo. Moore & Co. have one of the best Hoistein herds in the west. Their herd is headed by the celebrated Sir Johanna Colantha, Fayne 42146. His dam, Johanna Colantha, has a record of 26.5 pounds of butter in seven days, 798.5 in one year and 16.791.9 pounds of milk in one year. They are offering for sale at this time 10 head of cows, some of them with A. R. O. records. In order to make rorm for young stock, they are making season prices on the cows offered.

Will Show This Year.

Will Show This Year.

Thes. E. Clarke, the author of the article "Value of the Show Ring." recently appearing in Kansas Farmer, is herdsman for Dr. R. A. Stewart, owner of Reno herd of Shorthorns and Berkshires, Mederra, Kan. Mr. Clarke writes that he expects to show an aged herd this year at several of the southwestern fairs. He has only two bulls past a year old, but can make some attractive prices on cows and helfers, These females are all by Victor Archer or bred to him. Victor Archer is a half brother to the grand champion New Year's Delight.

Young's Jersey Cattle.

Young's Jersey Cattle.

H. C. Young, proprietor of one of the best herds of Jersey cattle in the west, was recently visited by a Kansas Farmer field man. Mr. Young lives in Lincoln, Neb., and maintains a herd of about 70 head, all registered. In this connection he operates a model dairy and furnishes milk for the people of his city. His model dairy barn was built at a cost of \$6,000. Mr. Young keeps records of the performances of all his cows, and has cows making as high as 600 pounds of butter in 12 months. These records are the results of tests made by the state department and are a matter of public record. Mr. Young always has stock for sale and will have an announcement in Kansas Farmer later. In the meantime, parties wanting to buy good Jerseys should write him, mentioning this notice.

Hoppe's Worthy Poland Chinas.

A recent visit to the Poland China breeding form owned and managed by W. V. Hoppe of Stella, Neb., reveals the fact that Mr. Hoppe is one of the foremost big-type breeders in his part of the state, noted as

the home of so many good herds, Mr. Hoppe is full of energy and persistence and is not one of the in-and-out kind of breeders. He has absolute considence in the Poland China and always has a good bunch to show visitors. Dry weather has but little terror for him, for the kind he breeds are always in demand in some part of the country, and Mr. Hoppe has the courage and good judgment to advertise liberally in order to reach outside trade. Mr. Hoppe always has good sales, and holds the record for selling in Falls City the largest hog ever sold at that point. The present herd boar, Look's Reserve, is one of the big, smooth sort, sired by the great boar, King Look. He is better than a half brother to the noted prize winner Grand Look. Look's Reserve cannot be used longer to good advantage and will be priced very low to some breeder wanting a tried sire. The spring pigs, of which there are a choice lot, were sired by Look's Reserve and Blain's Best Hadley, a son of Blain's Last Hadley, be y Big Hadley. They are out of as good a bunch of sows as can be found in any herd, among them daughters of Big Victor, Falls City Wonder by Wonder's Perfection, Look's Reserve, etc. Mr. Hoppe is a good developer and always has his offering in nice breeding condition, but does not load the pigs with fat. In other words, he knows how to feed for development and not hurt them for breeding. Stella is located about 20 miles north of Falls City on the Omaha branch of the Missouri Pacific, but Mr. Hoppe always holds his sales at Fulls City. He has selected October 28 for his next sale and will have the goods, as he always does. Remember this, and should any reader of this be in need of a good individual, a good breeder and can be bought for half his real value as a breeder. Mention Kansas Farmer when writing.

J. W. Elliott's Shropshires.

J. W. Elliott's Shropshires.

The attention of sheep breeders is catted to the card of J. W. Elliott of Polo, Mo.. in Kansas Farmer. Mr. Elliott is one of Missourt's reliable breeders of registered Shropshire sheep, and is the cwner of the noted Rcckford Belle Shropshire flock. The rams offered by Mr. Elliott at this time are an extra fine lot and are from imported sires and dams from the best Shropshire flocks in America. They are of the best type, all short legged, broad backed, the kind that improves the flock. They are one of the best lots of rams inspected by the writer this year. Mr. Elliott is also offering a few ewes and is making prices on his stock that considering the high quality of his offering, are very reasonable. Sheep breeders desiring the best breeding stock cannot afford to overlook the Rockford Belle flock.

Big-Boned Poland Chinas.

Chas, Z. Baker of Butler, Mo., is offering stretchy boars and gilts for sale, sired by the most noted boars—Big Hadley, John Ex. King Hadley and Long John 2d—and out of strictly big-type sows. Two hundred head in herd. Write at once, Please mention Kansas Farmer.

(Continued on page 15.)

## 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.

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. 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. BUNNELL, Atchison, Kansas.

BIG POLAND CHINA HOGS.

Limestone Farm Herd, Clarksville, Mo., M. Gottswiller, Prop., breeder of big Poland Rogs, Shropshire sheep, Buff Orpingtons and Single Comb Brown Leghorn chickens, Pekin 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.

LOOKS RESERVE 41217. A great son of King Look offered for sale at a real bargain; fully guaranteed. See his get and you will want him. W. V. HOPPE. Stella, Neb.

6-BIG TYPE POLAND BOARS-6
gust and September farrow; \$25 each if August and September and sold soon.
L. E. KLEIN, Zeandale, Kansas.

#### FOR SALE

11 extra-good Poland China boars of March and April farrow by A. L.'s Hadley, by Big Hadley's Likeness and out of a good, useful lot of sows; from \$20 to \$35. A. L. ALBRIGHT, Waterville, Kan.

HAMPSHIRE HOGS.
S. G. LAWSON'S HERD.
Bred sows and glits for August and September farrow; spring pigs, both sexes, no kin; best breeding you can buy; worth the money; all registered free.
G. S. LAWSON, Rayenwood, Mo.

## AUCTIONEERS

## C. F. BEARD

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

#### COL. FRANK REGAN Kayan

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

## COL. N. S. HOYT

MANKATO, KANSAS. Bred Stock and Large Farm Sales a

FRANK J.ZAUN Fine Stock Auctioneer,
Am selling for the best cattle and hog breeders in the West. Terms very reasonable. Write or wire for dates. Bell phone 675. "Get Zaun; He Knows How."

# KINNEY

Oketo, Kan., will make pure bred stock or farm sales anywhere in Kansas or adjoining states; 15 years' experience; best of refer-ences furnished. Write or phone for dates.

LAFE BURGER, Live Stock Auctioneer, Wellington, Kansas—15 years of success in selling pure bred live stock.

W. C. CURPHEY Salina, Kansaa LAVE STOCK AUCTIONEER.

# BARGAINS AND LANDS

## **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, Boom 26, Independence Bidg. Colorade Springs, Colorado.

# NESS COUNTY "SNAPS"

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,

BUY OR TRADE with us, Exchange book free. Bersie Agency, El Dorado, Kan.

IMP, and unimp. land in western Kansas, W. G. Ruth, Scott City, Kansas,

WE TRADE OR SELL ANYTHING ANY-where. The Realty Exchange Co., 18-22 Randall Bidg., Newton, Kan.

I MAKE a specialty of Ford county land and Dodge City property, P. H. SUGHRUE, Dodge City, Kansas.

GET OUR BOOK OF 500 FARMS and properties everywhere to trade. Graham Bros., Eldorado, Kan.

1mproved farms—Montgomery Co.

FOSTER BROS., Independence, Kans. HAVE over 100,000 acres in different tracts; country is good. Write for my list, J. Douglas Harp, Mullinville, Klowa Co., Ks.

MONEY in western land. Live agents wanted. Write WALTER & WALTER, Syracuse, Kansas.

IT'S FREE. Southeastern Kansas Homesceker. If you want land send for it. Address THE ALLEN COUNTY INVESTMENT CO., Longton, Kansas.

ESTABLISHED 1885.—Write for free list. Park H. Thornton, Real Estate Dealer, Celdwater, Comanche Co., Kansas.

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

200 ACRES, 14 miles south of McPherson, Kan.; good farm; price \$50; exchange for mdse; mostly alfalfa land.; imps. good. J. M. Clubine, Durham, Kan.

FINE PRINTING FOR REASONABLE prices, Catalogs, circulars, letter heads, Everything in the printing line, Write for samples and prices, Western Printing Co., 625 Jackson St., Topeka, Kan.

FOR SALE OR TRADE—Properties of all kinds. Lands \$15 to \$75 per acre. 40 years' residence. W. H. Kaltenbach, Toronto, Woodson Co., Kansas.

SOME OF THE FINEST FARMS in Kansas for \$30 to \$70 per a. Close to excellent town; raise corn, wheat, alfalfa, all kinds of crops; fine water at 8 to 35 ft. Write for free list. W. C. ALFORD, Hazleton, Kans.

BACAINS in Southern Kansas farms, un-improved lands and stock ranches. Prices \$25 to \$70 per acre. E. K. Longley, How-ard, Kansas,

FOR TRADE—A \$20,000 stock of general mdse. Wants Kansas land at actual value. Good town with fine country around. Taylor & Bratcher, Coldwater, Kansas.

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

IMPROVED WHEAT FARMS in Ford county at \$25 per acre up; near R. F. D. and telephones and schools. BROWN & VERNON, Dodge City, Kansas.

CHOICE ALFALFA LAND, for sale or exchange, Exchange propositions are made a specialty. UNITED LAND COMPANY, 902 Schwuter Bidg., Wichita Kansas.

160 ACRES, 3 miles of Towanda. A snsp at \$7500. Other good farms in western But-ler county. Write for particulars. G. W. MOORE, Towanda, Kansas.

WRITE FOR MY BIG LIST OF CHEAP cattle, 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 34x60 and hay loft two volls and mill and other outbuildings; good orchard and all seconed 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 good crops, everything prosperous. Write for particulars, GIBSON & NELSON, Flag-ler, Colo.

#### 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 as part pay, W. A. Nelson, Fall River, Greenwood County, Kansas,

SOLD THE LAND ADV'T—Week of Feb. 4 and the one of Feb. 11, and here's one for this week: 160 acres all in good grass, rich soil, good water, in wheat belt. ½ mile of rood school, well located, make a nice home, 6 miles of Spearville. \$3,000; \$1,500 cash and good terms on balance. Send for big list. Address STINSON & SHELDON, Spearville, Kan,

200-ACRE WHEAT FARM at a bargain if sold at once. Write for our farm list. WHIPP & CO., Concordia, Kan.

BARGAINS in Kansas farms; \$30 to \$90 per acre; sale or ex. Write for list. MOR-ROWVILLE LAND CO., Morrowville, Kan.

FARMS, RANCHES and City property for sale and exchange, Merchandise stocks a specialty, A. N. BONTZ, Wichita, Kansas.

CALHAN, COLO., We have thousands of acres of land for sale cheap and on easy terms in the great rain belt country of eastern Colo., for full information write—The Eastern Slope Securities Co., Calhan, Colo.

FOR EXCHANGE—KANSAS LANDS, 80 a, near Salina, all cultivable; 6-room house; price \$5.000; mtg. \$2,500; want western land for equity.

CAVE REALTY CO., Salina, Kans.

BUTLER, HARVEY AND SEDGWICK CO.

LANDS.

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.

EBERHART & MELLOR, Whitewater, Kan.

100-CHOICE DICKINSON AND CLAY CO. FARMS-100

FARMS—100

80 acres 3 miles from town, 70 a. under plow, alfalfa land, 20 pasture and meadow, 5 room house, good well, barn and other buildings, \$2000 cash; rest to suit; 25 a wheat included, Write for list, J. J. Bishop, Wakefield, Kan.

LIVE AGENT WANTED
in your locality to assist in selling corn,
wheat and airaifa land. We own thousands
of acres in Pawnee and adjoining counties.
Write for proposition on our own ranches.
FRIZELL & ELY,
Larned, Kansas.

IF YOU MEAN BUSINESS and have real estate and merchandles of any kind for sale and exchange, and are willing to pay a commission should I make you a deal, write me at once of what you have and desire I have several very attractive propositions to offer you for a home or investment; am doing a general exchange business. Carl G, Anderson, Athol, Smith Ce, Kansas. IF YOU MEAN BUSINESS and have real

#### THE BEST TOWN TO LIVE IN.

If you would like to live in the most beautiful city in the West, with unsurpassed education, business and religious advantages, in a city clean, progressive, where real estate values are low, but steadily advancing, where living expenses are reasonable, a city with natural gas at lowest price, address the SECRETARY of the COMMERCIAL CLUB, Topeka, Kansas.

#### FOR TRADE

285 acres 4 miles of Garnett, Kan.; 70 acres in cult.; 25 pasture, balance meadow; 5 room house, barn, etc. Price \$15,000; mortgage \$5,000; wants mdse.
80 acres 3 miles of Greeley; good farm, well improved. Price \$5,200. Wants western Kansas land, SPOHN BROS., Garnett, Kansas.

A BUTLER COUNTY BARGAIN. . A BUTLER COUNTY BARGAIN.

Crops Never Looked Better,
160 a, 5 mi, town, all good soil, 125 cultivated, balance pasture and meadow. Two
sets improvements,
A snap for a short time at \$55 an acre.
Send for full description.

Kansas Map and new land list free.

JAS, A, THOMPSON,
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FINE STOCK FARM.

FINE STOCK FARM.

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.

#### Cheap Kansas Land From \$3.00 to \$15.00 per acre, write

GEO. J. DOWNER, Syracuse, Kans.

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. groceries preferred. If interested write for list. Rutherford & Oliver. Utica. Kan. groceries preferred. If interested write list.. Rutherford & Oliver, Utica, Kan,

160 ACRES, 3 miles from town, one 160 ACRES, 3 miles from town, one sroom and one 2-room house, barn with mow
14x24, cattle shed 14x50, 85 acres cult., 4
acres alfalfa, 15 a, alfalfa land, all tillable,
school 4 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.

#### Do You Want To Sell Your Farm?

It is my business to help find buyers for farms. I charge nothing for telling you how I work. If you hire my help the cost is very little. Write me

for my plan.
E. L. GARVER, Box 142, Topeka, Kan.

## WRITE 6. L. PAINTER & CO.

DODGE CITY, KANSAS.

### **Hamilton County Lands**

One quarter section, \$900, 480 acres, Bear Creek Valley, \$3,800, 100 acres Arkansas River bottom alfalfa land, \$6,000,

J. B. PRATT. Syracuse, Kansas.

is worth living in Kearney county. Hunting and fishing on Lake McKinney; 7 mi. long; rich soil; one crop pays for land; we have R. F. D. and telephones. Write for information about Kearney county. LAKIN LAND & IMMIGRATION CO., Lakin, Kan.

#### **WESTERN KANSAS**

Wheat and alfalfa lands cheap; no sand or rock; good soil and productive; write for list; state in first letter what you wish; save delay.

V. C. CUTLER CO., Scott City, Kansas.

# RADE

I have several customers who have lands and town property to trade for merchandise. What have you got to

G. W. KLOCKENTEGER, Seibert, Colo.

### Splendid Quarter Section

2% miles from good town, southern Kansas; 110 acres in cultivation, on creek, 25 acres mow land and 25 acres pasture; improved; price \$6,000; one-half cash. Address

GEO. N. UPHAM Kansas Coffeyville,

#### TRADES: TRADES:

City property in Osborne and Stockton for western land; land for merchandise; 80 acres Linn Co., for western land; match you on any good trade; no junk wanted. W. A. LAYTON, the Land Man, 413 NewEng.Bldg.Topeka.Kan

Mr Small Investor: Let me tell you some profit on a few dollars invested each month in Plains, Kans., town lots, Price \$12.50 to \$50, Write me, Right now.

JOHN W. BAUGHMAN,
Desk F. Plains, Kansas.

#### **Fine Stafford County** Ranch

at \$25.00 per acre. Write for particulars.
A. L. McMILLLAN,
Stafford, Kansas.

FOR TRADE—232 A, near here; all good smooth black land; two sets of improvements on it; mtg. \$1,000; half in cultivation, an ideal home; owner wants a good hardware and implement stock; well located. Price \$85 per a. Write.

G. T. KINSEY, LeRoy, Coffey Co., Kansas.

FOR EXCHANGE.

A good 160-acre farm in Woodson County, Kansas; 70 cultivated, 66 meadow, balance pasture; no rock; \$65 per acre; mtg. \$4,000. What have you for equity?

A. B. ESTEP. Yates Center. Kansas

Lamar Colo., NO BETTER IN-kansas Valley Irrigated Land, Write for map, price list and full information., GEO. A. WATSON LAND CO., Lamar, Prowers Co., Colo. (Established in 1886 at Lamar.)

Irrigated Farms in Bent Co., Colo., to trade for general mdse. Write me relative to Government lands coming under new ditch.

HARRY C. JOHNSTON,

Las Animas, Colo.

FOR SALE—COLORADO LANDS
Improved. Irrigated Farms, Cheap Lands,
Fruit Tracts and City Property at prices
that are right. Terms to suit,
C. C. COLE, Boulder Colorado.

## Great Farm Bargain

Only two miles from the City of Topeka, 2 miles from street cars, on proposed extension of car line, macadam road; the greatest farm bargain in the county; a fine grain, stock or dairy farm; all alfalfa-land; located right to sell all or part in five and ten acre tracts; 185 acres; 145 acres in cultivation, 12 acres alfalfa, balance pasture; practically all tillable; house, barn and other outbuildings are old; good well; this farm is right at the door of one of the largest and best markets in the state for all products; largest creame y in the world here; large packing house; wholesale and retail markets; owner old and wants to sell; only \$100 per acre, small payment down and very easy terms; a snap for the first man with the money.

THE HEATH COMPANY, 100 West Seventh St., Topeka, Kansas.

#### 320 A. Gov't Homesteads

Exceptionally fine land, in well settled community, where good crops are raised every year. Easily worth \$5,000 to \$8,000 by proving up time, Quick action necessary to get one of these, I charge reasonable location fee—write or come at once—you can't lose if you want a good productive home.

CARL M. COOK, Limon, Colo.

## FOR SALE

Half interest or separate 80 in 160-a, Colorado irrigated farm at a rare bargain to a responsible farmer who will take full charge. My partner not practical farmer. I have option on his interest. Small cash payment, liberal terms. Address,

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1645 Champ Street, Denver, Colo.

## HOLLY, COLORADO

I own 1,500 a, in various sized tract, an cult.; good buildings and other imperments, with old established water with will sell any tract on small payment for bal. in 10 years at 6 per cent. Plenty water all the time and best of land 1 within 3 ml. of town. Come out and see the you will not be disappointed. Best reas for selling. You pay no commission we dealing with me.

J. S. McMURTY, Holly Colo,

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MEETING OF KANSAS GRADING 00

MISSION.

Notice is hereby given that under the movisions of Chapter No. 222, the Grain on ing Commission will meet at the office the Governor in Topeka, Kansas, on the man day of July, 1911, at 10 o'clock a, m., to e tablish the grades of grain to be known tablish the grades of grain to be known the list day of August. 1911.

THOMAS PAGE.

J. G. MAXWELLA.

A. T. ROGERS,

Grain Grading Commissionen

#### Soiling Alfalfa.

I would like to ask about solling a falfa direct from the windrow a whether or not it will heat. We have 75 acres and would like very much

75 acres and would like very much bale and save it all. No doubt to have given the facts in Kansas Farer, which I consider the best farm per on the market, but I have miss them."—M. I. Brower, Sedgwick, Kanthere may not be a full understanding as to just what is meant by so ing. By soiling alfalfa is meant the practice by which just enough is a ceach day for the immediate use of the animals. Unless the herd is a vertically a superior of the same animals. Unless the herd is a verlarge one this can be done with scythe.

In soiling practice the alfalfa is a down and allowed to wither and the fed to the cattle. This has the avantage of permitting them to e green alfalfa without danger of blot Soiling is not profitably practiced ecept with moderately sized dall bands.

What Mr. Brower probably desir to know most is whether he can be direct from the windrow. If this the question we should say that the ought to be no doubt about it this se son. If the first cutting should con in wet weather it would not do to be from the windrow but this year it may be safely done and with consideration. advantage because it will permit the saving of all of the leaves while are the most valuable part of

With 75 acres in alfalfa a hay bal would seem to be a most economic accessory if not indeed a necessity It will permit of closer storage elib in bay, mow or rick, will keep bett and with less loss and will sell mu better if it is planned to market crop.

Seventy-five acres could not soiled in ordinary farm practice it could be baled from the winds and a great saving made.

Soil moisture can be conserved next year by early plowing. This been demonstrated in Oklahoma in been demonstrated in Oklahoma in five year test. Land plowed there the middle of July, during a five yearlood, produced twenty-seven bushe of wheat per acre; that plowed the middle of August product twenty-four bushels per acre; the plowed during the middle of Septe ber yielded twenty-two bushels pacre. It will be found, when a comparison is made, say about the middle of September, between land that of September, between land that plowed now and a fine mulch matained, and land plowed in Septemb—that there is a vast difference in soil moisture in force of carly blow. -that there is a vast difference plot soil moisture, in favor of early plot will be This ing and harrowing. pecially noticeable when the compa son is made with land on which we have been permitted to grow plowing is done in September.

A great many cows will be coming fresh the middle of August or Stamber. It is well as the middle of tember. It is well worth while to gin feeding these cows well a more before calving these cows well a more than the well as th before calving time, so that they we start off with a good milk flow. month of feed before calving time worth a month of feeding after calving. Keep in mind that the great start of the st ing. Keep in mind that the grecorn—even though it be fodder only is worth more for is worth more fed green to a milk of than when fed in any other way.

The sile is making profits for owner in the east. It will make profit for the western farmer.

# MELD NOTES

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10.—Thos. Crawford. Butler, Mo.
11-18—G. W. Newman, Emporia, Kan,
13—W. B. Wallace, Bunceton, Mo.
14.—Bert Harriman, Pilot Grove, Mo.
15.—J. A. Winebrenner, Tipton, Mo.
15.—J. A. Winebrenner, Tipton, Mo.
18.—Ben, M. Bell, Beattle, Kansas,
18.—Bert, M. Bell, Beattle, Kansas,
18.—J. B. Dillingham, Platte City, Mo.
19.—J. B. Dillingham, Platte City, Mo.
19.—J. R. McClarnon, Bradyville, Iowa.
19.—Trank Michael, Erie, Kan,
10.—R. P. Sear, Erie, Kan,
10.—W. H. Emens, Elmdale, Kans,
11—J. D. Bandel, Erie, Kan,
11—J. D. Spangier, Sharon, Kan,
16.—Oak Hill Stock Farm, Esbon, Kan,
17.—J. D. Gates, Ravenwood, Mo.
18.—Geo, M. Hull, Garnett, Kan,
19.—J. Hartman, Elmo, Kan,
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19.—J. E. Bundy, Goodrich, Kan,
19.—Jerich & Spalding, Ottawa, Kan,
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27—J. C. Halderman, Burchard, Nob.
27—J. C. Halderman, Burchard, Nob.
27—J. V. Hoppe, Stella, Neb.; sale at fall City, Neb.
28.—W. V. Hoppe, Stella, Neb; sale at fall City, Neb.
21—M. T. Williams, Valley Falls, Kan.
21—M. T. Williams, Valley Falls, Kan.
21—M. T. Williams, Lebanon, Kan.
21—M. T. Howard, Morrill, Kan.; sale at Sabetha, Kan.
24—C. Howard, Morrill, Kan.; sale at Sabetha, Kan.

4.—E. Howard, Morrill, Kan.; sale at bleths, Kan.

2.—J. E. Bowser, Abliene, Kan.

7.—H. J. Griffiths, Clay Center, Kan.

7.—Verny Daniels, Gower, Mo.

8.—L. E. Klein, Zeandale, Kan.

5.—C. P. Palmer, Peabody, Kan.

3.—W. A. Prewett, Asherville, Kan.

9.—Young & Kimberling, Glasco, Kan.

11.—P. L. Ware & Son, Paola, Kan.

13.—Walter Hildwein, Fairview, Kan.

14.—F. W. Barber & Son, Franklin, eb.

Nep., v. 15—A. P. Wright, Valley Center, Kan., v. 15—C. W. Jones, Solomon, Kan., v. 16—Miller & Manderschied, St. John,

an, . 17—J. F. Ware, Garfield, Kan. . 18—George W. Roberts, Larned, Kan. . 10.—O. M. Furnas, Oxford, Kan. . 23—T. J. Meisner, Sabetha, Kan. . 24—A. L. Albright, Waterville, Kan. . 25—J. H. Hamilton & Son, Guide Rock,

No. 30-J. H. Hamilton & Son, Guide Rock, Nob.

n. 27-A. C. Lobaugh, Washington, Kan.
b. 8-H. C. Graner, Lancaster, Kan.
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b. 5. 1912—George M. Hull and Col. C. E.
Bean, Garnett, Kan.
b. 9--W. E. Willey, Steele City, Neb.
b. 12-Onk Hill Stock Farm, Esbon, Kan.
b. 16-J. H. Harter, Westmoreland, Kan.
b. 16-J. M. Bunnell, Atchlson, Kan.
b. 20-E. M. Bunnell, Atchlson, Kan.
b. 21-W. A. Prewett, Asherville, Kan.
b. 21-W. A. Prewett, Asherville, Kan.
b. 22-C. W. Jones, Solomon, Kan.
b. 23-J. J. Hartman, Elmo, Kan.
b. 27, 1912—L. R. McClarnon, Bradyville, lova.

lova. arch 6-T. M. Willson, Lebanon, Kan.

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Duroc Jerseys.

-E. W. Davis & Co., Glenwood, Mo.

by 26—E. W. Davis & Co., Glenwood, Mo. ct. 9—E. W. Davis & Co., Glenwood, Mo. ct. 17—Pearl H. Pagett, Beloit, Kan. ct. 21—M. T. McBride, Parker, Kan. ov. 3—Grant Chapin, Green, Kan. ov. 2—Frank Elder, Green, Kan. ov. 7.—W. E. Monasmith, Formoso, Kan. la. 36—Ward Bros., Republic, Kan. la. 31—W. E. Monasmith, Formosa, Kan. eb. 1—Geo. Phillippi, Lebanon, Kan. Sale at Esbon, Kan.

h. 31—W. E. Monasmith, Formanda, Sale at Esbon, Kan, Lebanon, Kan, sh. 1, 1912—Frank Elder, Green, Kan, sb. 1, 1912—Frank Elder, Green, Kan, sb. 2—Rinchart & Son, Smith Center, Kan, sb. 2—W. C. Whitney, Agra, Kan, st. 11—Thompson Bros., Garrison, Kan, sb. 11—Thompson Bros., Garrison, Kan, sb. 11—Thompson Bros., Garrison, Kan, sb. 21—W. T. Fitch, Minneapolis, Kan, Feb. 28, E. P. Flanagan, Chapman, Kan,

Oct. 18.—J. N. George, Hopkins, Mo. et. 25.—R. W. Gage, Garnett, Kan. et. 25.—Arthur Mosse, Route 5, Leaven-worth & Company of the Company of

worth, Kan. let, 36.—D. R. Champion, Raymore, Mo. let, 30.—C. R. Champion & Son, Raymore, Mo.

ov. 4.—George O. Clark, Wilcox, Neb., and O. W. & E. Holtquist, Sacramento, Neb Sale at Holdredge, Neb.

Berkshires. E. Sutton. Lowrence, Kans.

A most practical corn harvester is made a the New Process Manufacturing Co. of alian, kan. It will do almost anything a fitcetion as much. With it a man can cut it see simple in construction and operation to the construction and operation in the construction in the construction

A Liberal Enclare Cutter Proposition.

Many of our readers will soon be up to the point of deciding the kind of ensilage cutter to buy. While there are several good ones on the market, the Ohio Cutter is certainly worthy of your most careful consideration. Sixty years of reputation standback of this cutter and in all this time it has never disappointed or felled to work properly. Mr. H. C. Hargrove, 251 Walnut street, Des Moines, Ia., western agent for this well-known cutter, whose advertisement appears in another part of this paper, makes an exceptionally fair proposition to cur readers by offering to send an Ohio Cutter on 30 days free trial. This try-before-you-buy policy is more than liberal and fair, and should help you settle the cutter problem today. Write to address above for full particulars.

W. N. Banks of Independence. Kan. is

w. N. Banks of Independence, Kan., is offering some high-class Jerseys for sale. This is the lurgest herd of Jerseys in our state and probably one of the best-bred herds, with more than 150 head to pick from. You cannot make a mistake if you buy from the Banks herd. Mr. Banks is also offering a choice herd buil in Ruby's Financial Count, a son of Financial Count (1316. The dam is Ruby's Fontaine 212934, a 45-pound sow recently sold for \$35C. Ruby's Financial Count is 3 years old and fit to head any herd. Financial Count is a half-brother to Financial Countess, a cow with a butter record of 935 pounds a year. This young buil is sure, gentle, and a fine individual. Mention Kansas Farmer when you write.

G. S. Lawson's Hampshires.

The card of G. S. Lawson, owner of one of Missouri's great Hampshire herds, will be found in the Kansas Farmer. Mr. Lawson is a pioneer breeder of Hampshire hogs and his herd is made up of representatives of the best Hampshire blood in the United States. Missouri King 777, the champion hog wherever shown, was bred by Mr. Lawson, and his herd has long been noted for its prize winners. At present Mr. Lawson is offering a number of high-class bred sows and glits bred for August and September fairow. They are a select lot and will suit breeders who want only the best. He is also offering choice spring pigs, both sexes, no kin, a very fine lot. to select from, and Mr. Lawson is making prices to suit the season. If interested in Hampshire hogs, write Mr. Lawson at Ravenwood, Mo. Please mention Kansas Farmer when writing.

When writing advertisers, please mention KANSAS' FARMER.

KANSAS FARMER.

The Power-Myers Conservatory of Music of Wichita was organized a year ago. Messrs, Power and Myers took as their motto, "A practical music school, run on common sense principles." They believed that music schools are not generally offering a practical, common sense training. Fupils go away to study and when they come home they cannot play or sing ordinary rarlor or church music. Their study has not been practical. All the teachers in the Power-Myers Conservatory are Americans, largely educated in America. All are college men and women as well as musiclans. All have had experience and have "made good" in teaching. The school became the largest in the city during the first year, cnrolling 286, with a graduating class of 16. This showed that the public approved of their manner of work. This year they are offering a course of study in languages, French, German and Italian, in addition to all branches of music, Wichita has become a great musical center and offers many advantages to music students.

E. Howard's Good Poland Chinas.

E. Howard's Good Poland Chinas.

One of the most successful and interesting Poland China breeders of the west is E. Howard of Morrill, Brown county, Kan, Mr. Howard has raised good hogs successfully all his life, and for the past four or -ve years has devoted considerable of his time to the breeding of registered stock. Besides owning two good farms, Mr. Howard has a suburban place at Morrill, nicely improved, where he keeps the hogs. His present heid bear, Chief Gold Dust Teeumseh 58256, is a boar of exceptional merit. He is big and has lots of quality, wide, short head and very smooth. He is sired by Chief Gold Dust, he by Johnson's Chief, and his dam was Humbolt Girl by Humbolt Lad. Mr. Howard has a line of sows equal in merit to his great boar. Among them are daughters of Royal Chief Jr. 39447 and Orchard Prince, a son of Sunflower Perfection. The way Mr. Howard handles his stock and his customers makes friends for his business. His sales privately and publicly are always satisfactory. Last fall his boars averaged about \$35 at auction, with but little advertising. Mr. Howard has selected November i and will hold his sale at Sabetha. The offering is sure to be a good one, and prospective buyers will do well to remember the date. Mr. Howard is through using Chief Gold Dust Tecumseh and would sell him reasonably.

Col. F. J. Zaun Busy.

The writer called on Colonel Zaun at Independence, Mo., last week and iound him one of the busiest men in town. Colonel Zaun last spring platted a new addition, and has overseen the building of 10 nice residences. Most of them were sold by the colonel as soon as completed, as he has a wonderful ability for selling, both on and off the block. There is no mistake about Colonel Zaun being a worker. He gets the high dollar for the breeder and sells for the best breeders in the corn belt. If you have not engaged an auctioneer for your next sale, "Get Zaun; he knows how." Write or wire for date and mention advertisement in wire for date and mention advertisement in Kansas Farmer.

Harriman Sells September 14.

Harriman Sells September 14.

A field man for Kansas Farmer called on the well-known Shorthorn and Poland China breeder, Bert Harriman, at Pilot Grove, Mo. The Harriman farm is one of the oldest breeding farms in Cooper county, for many years known as the home of Harriman Bros.' famous herd of Shorthorns, Mr. Bert Harriman now has the foundation laid for a famous herd of Poland Chinas. He is not doing much advertising, but he is raising hogs with both size and quality. He has claimed September 14 for a fell sale date and will offer to the public a draft of as good Polnds as will be sold this year. At the head of this herd of good, useful sows is Mount Vernon Hadley, by Big Hadley and out of Big Sallie, the highest-priced brood sow in any of the Missouri sales of 1909. Please remember the sale date is September 14, and send your name in early for a catalog and watch for further mention in Kansas Farmer,

This issue of Kansas Farmer contains the announcement of Henry E. Wyatt, Jersey cattle breeder of Falls City, Neb. Mr. Wyatt founded his present herd 17 years ago with stock from C. E. Still, Kirksville, Mo., and the Lincoln Jersey Cattle Club, then of Lincoln, Neb. Mr. Wyatt bought at this time just a few head, but was very carefulto buy the very best and his entire herd has been built upon this fourdation. His first buil was of St. Lambert and Rex breeding. His rext buil purchase was a straight St. Lambert bred buil, followed by another of Combination and Pedro extraction. His present herd buil, Noble Nameless Lad, is one of the most beautiful buils the writer ever saw. He is a son of C. T. Graves noted Suitana's Jersey Lad, and his dam was a great cow, Noble Liz, with a record of 5,000 pounds of milk with her first calf. Noble Nameless Lad is a lovely fawn, kind and gentle, and would be a winner in almost any good show. Mr. Wyatt's cowherd is very uniform and a thorough working herd. They are kept for what they can accomplish at the pail. While Mr. Wyatt has never been much of an advertiser, he has enjoyed a good trade, selling stock in several different states. In his advertisement, which appears elsewhere, Mr. Wyatt offers for sale a number of very choice young buils, all by his herd buil. They are nice colors, good individuals, and in age from 3 to 12 menths. When writing please in the state is Geo. B. Ross of Alden. Kan

One of the most enterprising breeders in the state is Geo. B. Ross of Alden, Kan. The writer has been calling at the Ross farm for eight years and each time we make our annual visit we can note improvement. The farm, which joins the town, is well equipped with barns and improvements for caring for stock, and Mr. Ross has today a herd of Percheron horses and Poland China hogs equal to any we see in our travels. It will be remembered by many of our readers that Mr. Ross showed a herd of Percherons last year that was among the championship winners. The Poland China Herd is headed by Progressive, he by Progress by Progression. He is a large, smooth hog and strictly of large type breeding and the collection of sows



GEO. B. ROSS, ALDEN, KAN.
owned in the Ross herd are from the best herds in the corn belt. Mr. Ross has saved 65 spring pigs and they are well grown out. He is not only a breeder, but a man who believes in feeding all his stock. If you need a few choice Poland Chinas, you can not do better than to write to Mr. Ross. If you need a Percheron you will find six imported stallions, 3 years old, that will weigh around a ton, and a few choice mares in matched teams, all priced reasonably for first-class stock. Please write your wants to Mr. Ross. You will find him very pleasant to deal with, and the place is Alden, Kan.

s Aiden, Kan.

An Effective and Ecconomical Fruit Tree Spray.

No intelligent orchardist today questions the advisability of spraying his fruit trees as it is a generally accepted fact that in no other way can sound, perfectly formed and developed fruit be assured. The question of selecting the most effective spraying mixture with which to do this important work is, however, often a difficult one to decide. In the opinion of many fruit growers the best and cheapest spray mixture is made by mixing Merry War Lye with water in the proportion of one can to 16 gallons of water. This solution has sufficient strength to kill all insect pests without the slightest injury to foliage or buds. The same solution is fully as effective for destroying borers in fruit trees by washing the trunks thoroughly, applying with a white wash brush. It kills the worms and insects instantly, removes all scale and leaves the tree trunks in a smooth, healthy condition. This mixture has the further advantage of enriching the soil around the roots of trees and shrubs, thus stimulating their growth. As a sheep dip and remedy for treating foot disease of sheep Merry War Lye has also been found to be remarkably effective, the solution for these purposes being in about the same proportion of one can of "Merry War" to 15 gallons of water.

Will Take 160.000 Altogether to Take Care

Will Take 160.000 Altogether to Take Care of Xield of Prairie Provinces.

One hundred and twenty-six thousand farm hands will be required this year to harvest the grain crops of Manitoba, Saskatchewan and Alberta, Of this number the local help will provide about 112,000, which will leave about 50,000 extra farm hands. There is, therefore, a great demand for this class of labor in all parts of Western Canada, In order to meet the requirements it has been arranged to grant very low railway rates from all boundary points reached by Canadian railways.

This will give to intending harvest laborers a splendid opportunity to look over the magnificent wheat fields of Western Canada, and the best evidence that can be secured of the splendid character of that country from the farmer's standpoint. There will be at least 200,000,000 bushels of wheat harvested this year, and it is expected that the yield will run from 15 to bushels per acre. Many farmers will

WANTED: BREAKING OUTFITS AT ONCE!

To western farmers whose crops have failed this year we offer:
Ship your outfit at once to CANORA, Saskatchewan, and we will sell you land without payment down it you will break an equal acreage for us. If you want, we will rent you this land (ours) next year on thirds or halves. We know the land is good and will produce. We have never had a crop failure and we run no risk in making this offer. It will make money next year for you and us both. So come at once.

For cheap excursion rates and illustrated Album of Canada, write to SCANDINAVIAN CANADIAN LAND CO...

Security Bank Bldg., Minneapolis,

## FOR SALE

Daily newspaper plant, or will trade it, Silo, 12-inch cutter and sweep power; registered Jersey bull ready for service; span 2,800-pound horses (5 and 7 years); 2 extranice registered Duroc Jersey boars, farrowed

SAYDA POLO JERSEY FARM, Parsons, Kansas,

TOO LATE TO CLASSIFY.

SHROPSHIRE SHEEP.

ELLIOTT'S ROCKFORD BELLE FLOCK.

Rams for sale, from imported sires and dams; from the best Shropshire flocks in America; good type, shortlegged and broadbacked; also a few ewes; all to go at dry weather prices.

Write J. W. ELLIOTT, Polo, Mo.

#### POLLED CATTLE

The only dual purpose cattle and the most prefitable for the farmer. Choice buils for

U. E. HUBBLE, Stockton, Kan.

HOLSTEIN CATTLE—M. E. Moore & Co., Cameron, Mo., breeders of Holstein-Freisian cattle. Ten head of high-class cows for sale, some with A. R. O. records; herd headed by the celebrated Sir Johanna Colantha Fayne

CHOICE JERSEY BULL CALVES, In age from 3 to 12 months; the best of breeding, colors and individuality. HENRY E, WYATT, Falls City, Neb.

WANTED—WILL BUY GOOD FARM om Cwner only; state particulars, Address CONRAD, Box 754, Chicago, Ili.

ret. as a result of their labors, as much as \$8 to \$10 per acre and many will deposit as profits as much as \$8,000 to \$10,000.

The wide publicity given to the excellent crop that is being raised in central Alberta and southern Alberta, central Saskatchewan and southern Saskatchewan, and glsc in Manitoba, will increase the price of land in these three provinces from \$3 to \$5 per acre, and the man who was fortunate enough to secure land at from \$12 to \$20 per acre will have reason for gratification that he exercised sufficient forethought to invest, while the man who was fortunate enough to secure a homestead of 160 acres free will also have a greater reason to feel pleased.

Netwithstanding the great addition to the

enough to secure a homestead of 100 acres free will also have a greater reason to feel pleased.

Notwithstanding the great addition to the acreage this year over last and the large crop that will be ready for harvest, there is no reason to become alarmed that the harvest will not be reaped successfully. There will be a great demand for these low rates during the next couple of months; be sure to make your application to any Canadian Government Agent at as early a date as possible. Harvesting will commence about July 25 and continue for five or six weeks, when threshing will begin, and there will be plenty of work until November.

Fairsiew Priand Chinas.
With this issue P. L. Ware & Son at Pacola, Kan., are changing copy for their card, Piesse look it up. They offer a few choice herd tears, sired by Big Hadley Correct, Thickset and Triple Effect. They have 90 spring pigs that are fine and are from both the large and medium types. Ware & Son pick up the largest and best Polands they can find, then they try to get the best pedigree. But the individual must be good or it does not frid a home on the Ware farm, If you send your order to this firm you can feel assured that you will get a good individual and always get your money's worth. Please look up ad ard write them for prices. Kindly mention Kansas Farmer.

Herd Doing-Fine.

In a letter from F. J. Miller at St. John. Kan., Mr. Miller rays he has the best lot of spring hogs he has ever raised, and they are doing time. Mr. Miller is the proud owner of a half interest in King Darkness, the Poland Ch'ra boar that sired more state fair prize winners last year than any other hoar. Don't fail to get some of this good what is so hard to produce. King Darkness breeds both. Write for prices on a cho'ce hoar pig before the best are sold. Kindly lock up ad in Kansas Farmer and note that the hord sows are a well-bred lot. Mr. Miller will offer some of his very best in November 16 sale. He is pricing a few choice pigs now. Write your wants.

Desirable Herd Boars.

J. F. Ware of Garfield. Kan., is offering a few choice herd boars. They are by the Iowa champion. B. L.'s Perfection, and the Illinois champion. Banker's Model. He also has a few King Darkness pigs, and a few by Looking Forward, the reserve grand champion at Hutchinson last year, and Short Grass Lad. the third prize junfor last year. Don't fail to write Mr. Ware. He has some very rich breeding. See ad in this issue.

A. B. Amcoats, Clay Center, Kan., regular advertiser in Kansas Farmer, reports good inquiry and sales on Poland Chinas and Shorthorns for the time of year. Mr. Amcoats says his pigs are better than last year, and he expects about the same demand as last year. Recent rains in his part of the state have improved crop conditions greatly, and, while the corn crop is hurt, there will be an abundance of fall feed and there is no reason for discouragement. Mr. Amcoats is fitting a mice bunch of cattle for the leading county fairs of central Kansas,

um e

#### 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 \$200 to \$600 at my stable doors Address A. LAPIMER 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 Anddridge & Son. Pattonsburg, Mo., Proprietors Breeders of pure bred Angus cattle and Du-roc Jersey hogs. Breeding Stock for Sale.

ANGUS CATTE
Allendale Farm, Savannah, Mo.
W. A. Holt, Prop.
Breeder of pure bred Angus cattle—a few choice young bills for sale. Prompt answer to inquiries.

#### JERSEY CATTLE

FOR SALE—SIX-WEEKS-CLD JERSEY buil, out of daughter of Silverines Lad and sired by Coneris Eminent, a Golden Lad buil.

JOHNSON & NORDSTROM.

Clay Center. Kan.

Yearling Jersey Bull, sred by Beatrice Stockwell and out of richly bred and good producing cow. Also cows and heifers. S. S. SMITH. Clay Center, Kan.

Clay Center. Kan.

FUR 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 testing 5½ per cent, and with last calf at the age 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 bother 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 helfers. Milk and butter records ac-

R. J. LINSCOTT, Holton, Kansas.

#### SHORTHORN CATTLE

# **Pearl Shorthorns**

Carload good, big, strong bulls, 8 to 20 months old. Priced right, C. W. Taylor, Enterprise, Kan. R. R. station, Fearl, on Lock Island.

Houx's Polands and Snorthorns

50 big type Poland Chinas. March and April pigs, sired by two extra heavy boned boars, Priced at farmers prices. Resdy to ship, order now, and got choice. Description guaranteed. Also a few choice Roan Shorthorn bulls to offer, Sired by King Challenger 312040, a son of White Hall King 222721. Prices reasonable. Come or write.

W. F. HOUX JR., Hale Mo.

# SHORTHORN S

EVERGREEN HOME PARM.

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, Missouri.

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 youn; bulls and some fe-males for sale. Write E. S. Myers, Chanute,

# ALFALFA SHORTHORNS

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.

ELM GROVE FARM.
Shorthorn cattle and Percheron horses.
Write for description and prices.
ISAAC NOVINGER & SONS
Kirksville, Missouri.

## **HERD BULL For Sale**

Victor Orange \$12830, a Scotch Orange Biossom, sired by Victorious 121:69. 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 Anxiety 4th. Hesoid etc., breeding, including imp, animals. Over 190 head in hord. Few choice young bulls and some good females for sale. TOM WALLACE, Barnes, Kansas.

#### RED POLLED CATTLE

RESERS RICHLY BRED RED POLIS.
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 bulls for sale; also a few cows and helfers.
C. E. FOSTER, Eldorodo, Kansas.

COBURN HERD of Red Polled cattle and ercheron Horses, Young stallions, bulls and Percheron Horses, 10ung stantons, bank heifers for sale, Geo. Groenmiller & Son, Pomona, Kan.

#### POLLED DURHAM CATTLE

#### BELVEDERE X2712-195058

Son of the \$1.500 Grand Victor X1635 50365 heads my herd of Double Standard olled Durhams. A few extra good, blocky, nick-fleshed young bulls for sale. Inspec-on 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.

## FOR SALE

REGISTERED HOLSTEIN BULLS, five to ten months old, from best heavy milkproducing families. Send for list,

BIGELOW'S HOLSTEIN FARM, Breedsville, Mich.

#### **Rock Brook Holsteins**

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

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

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

WOODCREST HOLSTEIN-FRIESIANS. Twenty registered bulls from 1 month to 2 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.

HOLSTEIN CATTLE—Young bulls of the famous Shadybrook family and some bull calves. This herd is headed by the celebrated Sir Johanna Colantha Fayne No. 4,2146. 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

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

#### BERKSHIRES

#### LARGE ENGLISH BERKSHIRES

Breeding Stock for Sale. H. U. McCURDY & CO., Hutchinson, Kansas.

#### BERKSHIRE HOGS.

Baron Premeir 84th, Premier Duke 70054 and Artful Premier 73307 at head of herd. A few choice yearling boars and gilts for sale out of high class sows. Write me. I can please you, JUNE K. KING & SON, Marshall, Missouri.

#### RENO BERKSHIRES.

For sale, 4 bears and 4 gilts. Sept yearlings, Weigh 250 to 275 pounds, Gilts sold bred or open. Price \$30 to \$40. All sired by the Grand champion at Kansas State fair, 1910. Write at once,

T. E. Clarke, Medora, Kansas.

#### RED POLLED CATTLE

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

F. W. LAHR, Brooks, Ia.

#### SCOTCH SHORTHORN BULLS

Twenty head of high-class Scotch and Scotch topped bulls for sale; yearling 2-year-olds; all bred right and good individuals; also herd bull Victoria Prince by 238026—a, herd bull with a record as a breeder; all will be sold; worth the money descriptions of stock guaranteed.

GEO. A. ROBINSON. Prescot h GEO. A. ROBINSON. Prescott h

#### DUROC JERSEYS

DUROC JERSEY

#### ROSE HILL DUROC JERSEY HERD

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

#### **Duroc Boars For** Extra Choice

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

RIVER BEND HERD DUROCS.

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, W. T. FITCH, Minneapolls, Kansas.

#### UNITY CHESTER WHITE HERD,

Breeder of strictly high-class Chester White hogs; a number of extra-high-class spi Boars for sale; a selected lot of show prospects. Write for breeding and descripts of stock; all breeding stock guaranteed as represented. Prompt reply to all inquis J. N. George, Hopkins, Mo. Address,

THE BEST DUROG JERSEY BLOOD OBTAINABLE.
Will be found in what we have in spring pigs; 125 good ones sired by Ohio Col., winner of first and sweepstakes at Hutchinson Kansas State Fair last year, and second at Nebraska State Fair. Others by Blue Valley Chief, by Viley Chief, and Chiefs Wonder, by Ohio Chief, Lincoin Top and others, out of mature and richly bred sows. Stock always for sale.

THOMPSON BROS., Garrison, Kansas.

#### ALFALFA STOCK FARM.

The home of richly bred and practically fed Durocs. Herd headed by Pagett's Col. by King of Cols. and Chiefs Wonder by Ohio Chief; 200 spring pigs sired by 14 different boars; special prices on pairs and trios not related. Buy early and save on express. PEARL H. PAGETT, Beloit, Kansas,

#### ELDER'S HIGHLAND DUROCS.

Headed by G. C.'s Col. and F. E.'s Col.
Sows contain the blood of Ohio Chief and
Crimson Wonder. Stock always for sale.
FRANK ELDER.
Green. Kan.

#### OHIO IMPROVED CHESTERS

# **MOSSE OF KANSAS**

Kansas Herd of Improved Chester Whites. Grand Champion Sow Kansas State Fair. ARTHUR MOSSE.

R. D. S. Leavenworth, Kansas

#### MAPLE LEAF HERD

IMPROVED CHESTER WHITES.

HAPROVED CHESTER WHITES.
Herd headed by White Frost, an excellent individual, assisted by Garnett Model, a grandson of the great Kerr Garnett; spring pigs from 5 other noted boars; have a few good fall pigs left to offer. Correspondence cheerfully answered. White Wyandotte chickens; eggs for sale,

R. W. GAGE, R. 5, Garnett, Kansas.

## WORLD'S FAIR O. I. C's

We sell blood of the World's Fair Grand Champion and other famous winners, Write for prices on spring pigs and bred sows, Ad-

L. L. FROST, Box H. Mirabile, Mo.

#### POLAND CHINAS

HICKORY GROVE FARM, the home of the big boned black and spotted Poland China hogs, the farmers' hog, and the kind that makes the most pork. Choice males GEORGE & OLLIE TAYLOR, Cameron, Mo.

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 7 years. Choice spring pigs for
sale. Sam Stone, Leonardville, Kansas,

WILLFOUNG'S POLAND CHINAS II Breed both big and medium type, Herd Big Mogul by Moguls Monarch and Fill ter by Meddier 2nd. Over 100 choice s pigs to select from. Also summer sa gilts. Write for what you want. I WILLFOUNG, Zesndale (Riley Co.), F

S. P. CHILES POLAND CHIMA For sale, a choice lot of spring pign by Sentinel by 2nd Independence, cut of P. Perfection sows and Perfect Louise S. P. Louise. The dam of the lows a pion and junior champion last year, if for prices. S. P. CHILES, Jefferson, I

MADISON CREEK POLAND CHINAR Headed by Big Boned Pete. Som Mastadon and Wonder breeding. 8 raised under natural conditions; 70 ready to ship, all out of mature som. J. L. GRIFFITHS, Riley, Kan,

BIG BONED POLAND CHINA HE Expansion and Hadley sows, headed by Glant Wonder by Prince Wonder, dan Orange Chief; choice spring pigs, bot s reasonable. John T.Curry, Winchester, Ka

MOONEY CREEK POLAND CHINA HE The biggest of the big. Wonder Mantadon strains. Herd headed by Big borne. Pigs raised under natural conditions of the best herds in lowa and have breeding for Kansas, Write for information the kind I breed. Visitors always come.

JOHN W. NOLL, Winchester, Kans.

#### CHOICE FALL GILT FOR SALE

By Big John Wonder 55319 and of big-type sows; the farmer's kind at far prices; either bred or open; write for pr JOHN CAPPER. Lyndon. Kans.

GREEN LAWN HERD BIG BONE POLAND CHINAS.

Herd headed by Big Spot, Major B, Had a 600-lb. hog at 18 months old with inch bone, and Giant Wonder by A Wo Fall and spring pigs sired by above also some sired by A Wonder, Long and Longfellow, Jr., out of large sows by Blain's Wonder, Expansion John Grecumsch, King Blain, Long King Blain's Last Hadley, Correspondence licited, descriptions guaranteed. ited, descriptions guaranteed.
A. J. ERHART & SONS, Adrian, Ma

## Short Grass Herd Polan

A few choice fall boars sired by F Darkness, Toastmaster, 2d Imputs Looking Forward and Short Grass Lad of high class sows. Price \$25, all class and guaranteed.

J. F. WARE, Garfield, Kansas.

Highview Breeding Farm
THE KIND OF OUR FOREFATHER
Home of the big-boned spotted Pols
The only registered herd of original spotted
Poland China son earth. I am now book
orders for spring pigs to be shipped w
weaned: pairs or trics; no kin.
H. L. FAULKNER, Box K. Jamesport,



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