# ANSAS FARMER

FOR THE IMPROVEMENT

OF THE FARM AND HOME

lume 49, Number 34. TOPEKA, KANSAS, AUGUST 26, 1911. L

shed 1863. \$1 a Year

ROM ideas to thoughts, on through plans and action to facts, man grows in potentiality to do and subdue. Lands, houses, ships, jewels and gold but evidence the value of ideas.

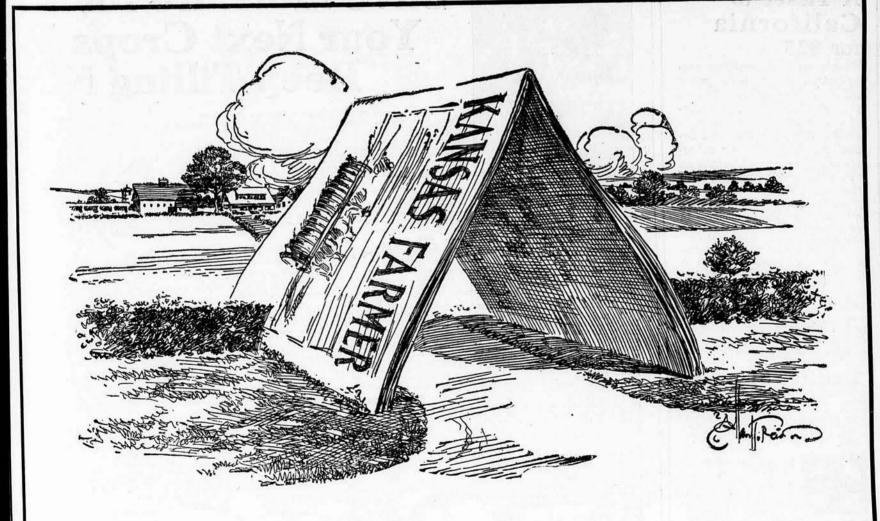
As every man is created with some wisdom, and no man all-wise, so each must profit from the store of his fellows. The successful experiment of one, leads to greater accomplishments by others.

Out of the needs of the various departments of human endeavor for

the utmost mutual helpfulness have come the trade papers.

Representative of the greatest and most worthy industry, the farm paper stimulates ambition, initiates development, fosters progress and builds national greatness where else had been mediocrity. Who ignores it escheats opportunity and forgoes his own advantage.

—O. B.



Toward Development And Progress

# KANSAS STATE FAIR HUTCHINSON

SEPT. 18, 19, 20, 21, 22, 23, 24, 25, 26 and 27, 191

\$40,000.00 IN PREMIUMS AND PURSES Exhibits must be in place SATURDAY EVENING, September 16th.

\$20,000.00 FOR RACING \$1,000.00 in PREMIUMS for County Exhibits.

No other Fair in Kansas ever offered as much money to Exhibitors.

Cattle, \$6.657.00; Horses, \$7,330.00; Swine \$1,745.00; Sheep, \$1,123.00; Other Departments, \$3,775.00.

### RACING

19 Harness Horse Races 36 Thoroughbred Races 3 \$20,000.00

THE FOLLOWING IS COPIED FROM THE STATUTES OF KANSAS: Be it Enacted by the Legislature of the State of Kansas.

Chap. II, Sec. 5. That the Central Kansas Fair Association is hereby authorized to police its Fair Grounds and to enforce the rules and regulations of said Association.

Sec. 6. Standing. That the Fairs held and the Premiums Awarded by The Central Kansas Fair Association SHALL HAVE THE SAME STAND. ING AS THOSE GIVEN BY THE STATE FAIRS OF OTHER STATES.

This Fair pays more money to exhibitors than any other Fair in America, except those supported in whole or in part by taxation. This Fair is the largest in the world conducted in a city of its size.

This Fair has the largest percentage of out-of-town attendance and of farmers of any Fair in the United States.

Kansas loyalty to Kansas makes this Fair Great. It is for all the people and the people all attend. The meeting place of the breeder and buyer.

### The Semi-Centennial—The Great Feature of 191

Speaker Champ Clark, Sunday, Sept. 24th.

There will be 363 trains into Hutchinson during this Fair.

Various Governors, Monday, Sept. 25th,

President Taft, Tuesday, Sept. 26th.

Grand Parades (which will be reviewed by President Taft), Cornet Bands, Drum Corps, United States Cavalry and Artillery, State Militia, Grand Men and Great People.

Ask your railway agent about train service—the railroads want to know what you want and you want to know what to get ready for. Come once and then again. It is TEN DAYS this year.

Write Col. L. A. Beebe, Secretary Commercial Club, for over-night accommodations.

Grounds in north part of city—double track electric street railway, city light and water. A TROOP OF U. S. CAVALRY AND A BATTERY OF ARTILLERY WILL BE HERE BY ORDER OF THE SECRETARY OF WAR

H. S. THOMPSON, President.

A. L. SPONSLER, Secretary.

### A Ticket to California

That's what a one-way second-class ticket from nearly all Santa Fe stations in Kansas and Oklahoma to California may be bought for September 15 to October 15 inclusive. The same or corresponding fare from points on other lines in connecton with the Santa Fe.

If you buy one of these tickets you will save considerable money—in many cases as much as \$15. Isn't that worth something to you?

If you contemplate visiting the Pacific Coast, Arizona, Mexico, or a number of other places in the Southwest this fall, why not plan to go while these cheap tickets are on sale?

You may travel in tourist sleepers or free chair cars,—both carried on each of the Santa Fe's three fast trains that leave Kansas City daily. These

Tourist Sleepers

are of latest design and have electric lights, good beds, large dressing rooms and men's smoking rooms. Very liberal stop-over privileges give chances to visit Grand Canyon, Yosemite Valley and other points of interest.



If you are interested, I will send you a copy of "Tourist Sleeper Excursions" and other literature.

J. M. CONNELL, Gen'l. Pass. Agt. Topeka, Kansas

The DODD SYSTEM or on is the standard on insurance companies. Lo Agents wanted. Fine, large Agents wanted. Fine, large DODD & STRUTHERS, 423 6th Ave., Des Moines, Ia.



Spalding Deep Tilling Machine preparing the ground against drought by pulverizing a seed bed 13 inches deep. Send for catalog.

### Save Moisture for Your Next Crops by Deep Tilling NOW

"With a Spalding Deep Tilling Machine we plowed 10 and 12 inches deep this Sp Ground dry and hard, with a little moisture below, which makes it more tough. The machine put worked it, while the ordinary plow, which makes it more tough. The machine put would throw it up in chunks, which by he time it was pulverised would be as dry as a bone. There is moisture in the ground but not navier as a property of the who put in crops with disc, and plowed what little they called what little they called when the crops are all gone. Our wheat and barley field (30 acres) 20 accompany plows their crops are all gone. Our wheat and barley field (30 acres) 20 accompany plows their crops are all gone. Our wheat and barley field (30 acres) 20 accompany plows their crops are all gone. Our wheat and barley field (30 acres) 20 accompany plows their crops are all gone. Our wheat and barley field (30 acres) 20 accompany plows their crops are all gone. WHERE WE MISSED IT, WAS NOT GETTING THE SPALDING DEEP TILLING MACHINE LAST FALL, AND DOING THEN WHAT WE DID THIS SPRING."

E. R. MEYERS & SONS.

This letter has a priceless message to farmers all over the region of the summer's drought. If E. R. Meyers & Sons could have made a full crop by using the Spalding Deep Tilling Machine has a fall—if the Spalding Deep Tilling Machine made "a green field" for them when other crops were all gone—don't you think you can insure yourself against drought, and harvest a 100 per cent yield next season, by using the Spalding Deep Tilling Machine this fall? The

For catalog or information address

Spalding Deep Tilling Machine

Ocnserves the Moisture
The use of the Spalding Deep Tilling Machine is especially beneficial in the fall, when the ground is hard and dry, as plow shallow, expecting the moisture to risk pullerized seed bed, 12 to 16 inches deep or more, is an ample reservoir to hold the fall rains, the moisture from the winter's snow and the early spring rains.

The farmer knows that all crops suffer from drought at one time or another during the year. In some districts more than enough rain falls each year to make a crop, but it often happens that excessive rains are followed by dry weather. If the seed-bed has been prepared with a Spalding Deep Tilling Machine to a depth of 12 to 16 inches the will absorb three times in the fall rains, the moisture of the deep the fall rains, the moisture of the fall rains, the moisture of the deep the fall rains, the moisture of the fall rains and the fall rains, the moisture of the fall rains and the fall rains and the fall rains an positively pulverizes your soil and prepare The Spaiding Deep Tilling Machine w in the spring. It has never falled to thor the soil is so hard that an ordinary mould-

DRY HARDPAN

Deep" "Plow

E. R. Par of the fam Dry sons, owner ous Parsons near Parker, the Dry Farm-Some farmers Dry Farm Colo., said to

Spalding Dept. AJS

Gale Manufacturing Co.

Makers of Farm Imple Albion, Mich., U. S. A

DRY HARDPAN

POROUS

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ORDINARY SEEDBED

SPALDING SEEDBED

### O PAY FOR GOOD ROADS.

o PAY FUR GOOD ROADS.
important and interesting good
bill has been introduced in conby Representative Shackelford of
ri. The bill provides that the govri shall pay an annual rental for
used by rural free delivery mail
The better the roads the greater tal, and it is the presumption that ites will devote the rental money improvement of the roads. If these fail to measure up to a certain rd, no rental will be paid for

director of the office of public roads Department of Agriculture is made dge of roads used in rural free de-routes. His decision is final. The routes. His decision is final. The money is to be paid to the repre-ives of state treasurers by the States treasurer, upon warrants by the postmaster general. The governments are to be left to dis-

e the money among the municipal-tended to participate therein.

bill divides the roads into four
s, as A, B, C and D. Class A roads
embrace all well graded public
outside incorporated cities, towns
illages of not less than five miles
gth. The steepest incline upon this must not exceed 9 per cent and arrest curve 9 degrees. The road harpest curve 9 degrees. The road he not less than eighteen feet wide en the ditches, well drained, with way not less than twelve feet composed of macadam, well maintand so crowned as to shed water by to the side ditches. It is provided the government shall pay at the of \$80 a year for each mile of such

s B roads should have the same leations as class A roads, except the roadbed in the former shall be the roadbed in the former shall be ell compacted gravel. A rental of year for each mile is provided. C roads are to be of clay and or clay and gravel; the rent for of this class would be \$20 a mile. D roads would have the same fications as the others except that has D roads should be dirt, and in good condition by dragging or means. The rental for these roads ed at \$10 a year.

ed at \$10 a year. compensation is provided for the froads which would not fall within of these classifications.

38 e American Royal, Kansas City, Oc-9-14, will this year be the year's breeder show, and will give the lers large opportunity to rub el-All the beef departments, Here-Shorthorn, Galloway and Angus, classes this year for feeder cattle releads that have not been fed grain. rloads that have not been fed grain.
division has classes for feeders 2 old, I year old and under I, and all championships for the three classes, \$50 and \$100 prizes for first and sec-This feeder show means much more the chance for the cattle raiser—it is a large collection of the finest ing cattle for the man who wants to en for the fat cattle market. A. M. inpson, secretary, has offices in the Stock Exchange, Kansas City, from questions regarding entries are red, and where entries are received departments except breeding cattle.

\* \* \* obably fifty chautauqua meetings held in Kansas each year. At most hem for several years past they have a "famers' day" on which day are addresses by a speaker or kers with a reputation for knowing ething about farming, at least for wing what to tell farmers to do ther they could do it themselves or The Old Salem Chautauqua at sburg, Ill., undertook last year to lership of the college of agriculture the University of Illinois and the board of live stock commissioners. school of agriculture under the was a great success, and the plan lld seem a good one by which to get icultural instruction before the mass-Kansas take notice!

he principal object of diversified farmis to so extend the farm operations to include a number of crops, so that fer of failure may be reduced and in diversification the land may be given ter care. A crop should not be grown variety's sake alone. There should some specific reason for growing each p. It doubt a parket grop P. It should be a good market crop for the purpose for which it is

# KANSAS FARMER ITORIA

With which is combined FARMER'S ADVOCATE, established 1877. With which is combined FARMER'S ADVOCATE, established 1877.

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

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

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

KANSAS FARMER COMPANY, TOPEKA, KANSAS.

MONEY VALUE OF EDUCATION.

That an education is actually worth money seems pretty well established. That the farmer who is educated has a greater earning power than the uneducated farmer is shown by figures obtained as a result of an investigation by the New York Experiment Station. That investigation was made in one coun-Inat investigation was made in one county in that state for the purpose of finding out just how much money the farmer was getting for the work he put in. It was found that out of 573 farmers, 398 had never gone farther than the district school, that 165 had gone to high school, while 10 had received further education. The 398 district school ther education. The 398 district school farmers received yearly for their labor \$318, the 165 farmers who had been to high school received \$622, while the 10 who had received at least some college education received \$847.

If 5 per cent interest is allowed on the

money, the above figures will show that a high-school education is equivalent to a \$6,000 investment, and a college edu-cation equivalent to an investment of \$10,500. The investigation showed, as \$10,500. The investigation showed, as could be expected, that the poorest of the college and high school farmers made more money than the best of those who had only a district school education. So, with or without education, the results are dependent upon the man. The human equation is, after all, the important feator.

No man—farmer or what not—can afford to be an "average" man in his business. The product of the average farm in the United States is mostly for the states of the states o in the United States is worth \$850. The figures show that the farmer who uses the most improved implements and methods produces 50 to 100 per cent more than the average. There are only about 200 good working days in the year on the farm, and every day must be made to count.

The dairy farmers of Shawnee county are most enthusiastic silo users. Close are most enthusiastic silo users. Close to 100 silos will be filled by them this fall. The farmers of Shawnee were slow compared with farmers of other counties of the state in taking hold of dairying, but now they are well in the lead. Ten years ago Shawnee farmers thought their land too high priced to devote to dairying—now they find that vote to dairying—now they find that dairying of the good kind is about the only thing that will make high priced land pay.

What would appear to be a backward step was taken by the German government when it abandoned the tuberculin test for imported cattle and will, after July 1, rely upon clinical examinations. The test has long been the subject of con-tention as one of the chief obstacles to the importation of foreign meat. This action is the result of recent unsuccessful experiments.

Dairying has become permanent in Kansas. It is easier to dairy in this state than in any other. The climate is favorable, the best of feeds grow, every town affords a cream market, and spot cash is paid for cream. NO DANGER FROM SMALLPOX.

A letter from a Junction City reader to Kansas Farmer says he and his fam-ily will spend the entire week of September 11 to 16 in Topeka attending the State Fair if the conditions regarding smallpox are not dangerous. To assure this reader as well as to state the situation to many others interested the edi-

tor on Monday morning made investiga-tron that was thorough and painstaking. At no time has the quarantine ex-tended beyond a few blocks, and that was on the extreme east side of the city, over a mile away from the fair grounds. So small has been the danger of spreading that at no time has it been necessary to close places where crowds congregated, to close places where crowds congregated, churches, parks, opera houses, picture houses, etc., and no spread of the disease was occasioned by these assemblages. The Daily Capital's annual children's picnic, which was attended by ten or fifteen thousand people, mostly children, and the great annual outing of over three thousand Santa Fa ampleyes with three thousand Santa Fe employes with their families, were held at Vinewood Park during the height of this so-called "epidemic," and no spread of the disease came of it. If there was an epidemic of smallpox in Topeka, such gatherings would not be permitted, and if permitted would not be attended by a handful of

people.

City Commissioner Stotts says there was a tendency to enlarge upon the facts during the entire scare. The records was a tendency to enlarge upon the facts during the entire scare. The records of the health department show eight cases at present, and but two of these are violent cases. The city physician says the cases now quarantined will be released long before the month is out. "But, I will say that the spread of the smallpox was checked long ago, has been confined within a small district far removed from the busy portion of the city, and a full mile from the fair grounds. There can be no possible ground for belief that when these eight cases are released from the strict quarantine that a further outbreak will occur," said the city physician.

city physician.

STIRRING THE SOIL.

Cultivation is too often regarded as necessary for weed destruction only.

Cultivation has a much more important effect, however, than the killing of weeds.

It is absolutely essential in order to produce a way likely food for the plants of duce available food for the plants of the growing crop.

mains cannot be used by plants until it is transformed into a soluble condi-This work is accomplished by several classes of bacteria. ferments ammonia; another class attacks the ammonia and forms it into nitrous acid, and another class attacks the nitrous acid and forms it into the nitrous acid and forms it into nitric

The nitric acid unites with certain mineral constituents in the soil to form nitrates. Nitrates are available form nitrates. Nitrates are available as food for green plants. The whole process of the formation of nitrates out of the manures is called nitrification, and the bacteria producing the change must have conditions necessary for their growth, such as plenty of moisting the conditions of the produced and room of the conditions of the co ture, proper temperature and good acre-

SECRET OF DRY YEAR YIELD.

A daily newspaper tells of a field of corn in the river bottom near Manhatton, which will yield 60 bushels per acre this year. The owner, William Ewing, says the secret of raising good corn in a dry year is this: "Plow the ground good in the spring. Plowed ground holds the moisture better than hard ground. Then plant the corn. Keep the weeds Then plant the corn. Keep the weeds cut of it from the start by cultivating it well, but if dry weather sets in don't touch the soil until after goods rains come."

This summer, the newspaper says, while other farmers worked from sun till sun in their corn fields, Mr. Ewing watched his corn grow and listened to the criticisms of his neighbors who said

the criticisms of his neighbors who said his corn would never amount to anything unless it was cultivated.

What Mr. Ewing is quoted as saying about deep plowing is generally consid-ered the right practice, and the same is true with reference to killing the weeds and keeping the corn clean. Then is true with reference to killing the weeds and keeping the corn clean. Then conditions are extremely favorable and advantageous in a year like this and no doubt these same conditions are responsible largely for a better yield in Mr. Ewing's field than in fields not deep plowed and not clean. Mr. Ewing's early cultivation no doubt left the soil in good condition to withstand the drouth and what he did earlier his neighbors were endeavoring to do later and probwere endeavoring to do later and prob-ably with less favorable results. Culti-vation can have only two effects, first, to destroy weeds and second to keep surface in condition to conserve moisture.
Millions of bushels of corn will this year
be made as a result of the late cultivation. In every locality there are marked examples of good results from stirring the surface and breaking the crust after the corn had been laid by. This late cultivation must be surface cultivation that is, shallow. Throwing the damp soil up to the drying rays of the sun and a destruction of the root system of the destruction of the root system of the plant is the way not to cultivate in a drouth. Surface cultivation means a fining of the top soil, so that capillary attraction may be arrested before the subsoil moisture is evaporated through the surface. It will add available moisture from the stores below. A tearing up with big shovels will intensify the water famine. water famine.

Based on the registration in the various states and territories, it is estimated there are in the United States 519,091 there are in the United States 519,091 automobiles, valued at \$1,000,000. New York has the most registered—70,000. Pennsylvania and California each has 40,000, while Illinois is given credit for 34,000. The fewest cars are owned in Idaho—750—while Delaware boasts only 900. That the farmers are ardent motoristic in heavy by the fact that Lowe has 900. That the farmers are artest motorists is shown by the fact that Iowa has 24,200 cars, more than Massachusetts, which has 22,000, while Nebraska has 15,-200. Ohio is strong with 32,400, while Wisconsin has 14,000, Kansas 12,300, Missouri 15,600, Michigan 16,059 and Instance 15,000 diana 15,000.

Agriculture throughout the world lost a valuable man in the death of Prof. F. H. King, which occurred recently at his home in Madison, Wis. Prof. King did more in advancing the study of the soil than any other scientist. Many valuable books have come from his pen, the best known, perhaps, being: "Irrigation and Drainage," "The Soil," "Physics of Agriculture" and "Ventilation for Dwellings, Rural Schools and Stables." N N N

Recipes for the preservation of eggs are numerous, and many have appeared in papers recently. The object is to provide the farmer with a means by which he can preserve eggs when cheap and sell Probably every farmer's wife has such a recipe, and the same can be used in Kansas for the preservation of eggs for home use. The laws of Kansas forbid the sale of such preserved eggs.

JE 36 38 California has set an example worthy of emulation by her sister states, when she voted a bond issue of \$18,000,000 for the building of good highways through-out the state. The roads will be so planned as to be main arteries of travel. There is no phase of life in the country, social or economic, that is not affected by good roads. No conscientious man or woman living in a small place can afford to ignore the close relation between bad roads, bad health, bad morals and bad citizenship.

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# BREEDING DRAFTER

The draft horse is the logical horse for corn belt conditions. The proper till-ing of the soil and the scarcity of farm labor require power for the large and larger machinery devised to perform the most work at the least expense for manual labor per acre of ground, or bushel of grain. This evolution of agricultural machinery to the large model has been rapid and wide spreading, until, in the west, powerful tractors are in com-mon use. There the climate and soil and extent of ground to be covered point to the use of such massive machinery, but in the corn belt, upon the majority of farms, and in the general run of seasons, the draft horse will prove the most economical source of power in producing our crops for some time to come.

In the corn belt we don't breed draft horses to cultivate fruit, nor to raise cotton, but wheat, corn, oats, clover, alfalfa, the very best feeds to develop the draft horse to his best estate. It is a weakness of human nature to feed more liberally when you raise the feed than when it is brought in over the railroad. Draft horses, for their proper development, require generous feeding. So that nowhere else in all the country are the natural conditions for developing the draft horses so favorable as in the

The custom and training of the corn belt farmer is to handle stock in bunches. The kindly disposition of the drafter, his quiet, friendly manner; his peaceable ways with those of his kind, as well as other kinds and mankind, enable him to fit in most acceptably with the prevailing methods and equipment on a corn belt stock farm. As with cattle, you can double the average bunch of draft horses and practically the only expense you have doubled is the expense of feed. Here is an economic feature which has considerable bearing on the successful contraction or expansion of such an enterprise. At home we have a 2-cent parrot in a \$20 cage, but a bunch of somewhat valuable draft mares went all winter and never saw the inside of a barn. An hour's chill would do up the parrot, but who ever heard of a draft horse, that had plenty to eat, freezing to death in the corn belt-if, on a day like this, one can imagine anything ever freezing. Woodland bluegrass pasture and grain twice a day, and today 21 colts saved out of 22 foaled, a result in no small measure due to abundant outFrom Standpoint of Corn Belt Farmer Who Understands the Requirements

By W. S. CORSA, Illinois



BEOOD MARES-PRIDE OF THE FARM IN KANSAS CORN BELT.

of-door life and plenty of feed.

We overlook our hand when we fail to remember that the horse is an outof-door animal; that the corn belt furnishes a well-nigh perennial and salu-brious out-of-doors climate for the drafter at a minimum expense per head for

There has been-and is-much argument as to whether there exists such a creature as a "dual-purpose" animal. Permit me to lead forward a corn belt draft mare and mark her exhibit "A." She produces the crop which sells for cash and a colt which, from weaning time on, may be transmuted into more coin than the average individual offspring of any other farm animal at the same age. Jane produced \$1,400 worth of colts and Daisy \$900 worth, and performed their full share of labor on the Later, branded wire and marked with age, they sold for approxi-mately their original cost. The depre-ciation in the power plant of the corn

belt farmer is at a minimum when the units are drafters; and when these units are draft mares, it is the only power plant I know of that renews itself while producing profitable labor. Many corn belt farmers have their own good grade draft mare, Jane and Daisy, and these mares have been busy.

The census bulletin shows that in 1900

Illinois had horses to the value of \$69,-600,000, while in 1910 our horses were worth \$163,000,000. Part of this gain may be attributed to increase in value, but not all. There has been a large increase in the number of horses, and it is safe to say that the increase has been largely of the draft breeds.

In this same year—1910—the Illinois Stallion Registration Board issued up to October 1, 9,370 licenses. Of this number 3,397 were for pure-bred draft stallions-all breeds-an average of about 35 pure-bred draft stallions to the county, of this, the greatest draft horse state in the Union. A mighty little leav-

en to leaven \$163,000,000 of dough. Reports from neighboring states a similar story. In spite of the mobile and auto truck, the grown population has brought about a greed demand for farm and city work. demand for farm and city work corn belt farmer wants to awake the use of only pure-bred draft stall and to the necessity of increasing number of such stallions in every munity, to the exclusion of the most and the scrub. and the scrub.

and the scrub.

"Grading up," as Dr. Alexander son states, "means using a pure-bred stall for the first cross and continually on ing the resultant female progeny in pure-bred stallions of the breed in used until all impure blood has be practically bred out." And that "as so as possible in every community unson unsuitable, undersized breeding anim should be discarded—sound, high-disparent substituted, and only puremarcs substituted, and only pure h stallions patronized."

But the call of the times is to pure-bred as never before. The expanof maintenance is the same; the of the pure-bred is equal or superior that of the grade. Lineage is no lice to loaf in either man or beast; and f profit and pleasure in breeding pure breds is incomparably greater. The pure bred drafter on the corn belt farm splut better farming, better fencing, practice elimination of the barb wire, and the maintenance of our heritage unimpaired as the selection of the draft horse industry.

Other lands are casting even town

Other lands are casting eyes town the United States for breeding stock the United States for breeding stock the beef breeds of cattle. Breeders dairy cattle are at this very time a ticipating the production in Americant of the choicest specimens of their factorized breeds. Already we have distant foreign lands in the production of the types of swine. Is it possible that, having drawn to this country for year the highest type and best individuals draft horses, that the day will not consider the draft horse in the splends of his massive form, graceful carriag and symmetrical outline, will not sought for in our own country by our cattle of the splends of his massive form, graceful carriage and symmetrical outline, will not sought for in our own country by our cattle of the splends of his massive form, graceful carriage and symmetrical outline, will not sought for in our own country by our cattle of the splends of the sple sought for in our own country by or own breeders and the breeders of for eign countries? It is an indictment the intelligence and perseverance of a people to deny it, and when that day a rives, the drafter of our ideals and a dreams will be found on the land of the land corn belt farmer.

### KANSAS REPORT

The Kansas State Board of Agriculture, last week issued its crop bulletin, showing that Kansas produced 51,000,000 bushels of wheat this year and that the corn prospect was 54.3 on more than 7,500,000 acres.

While the report of the Kansas State Board of Agriculture, indicating about two-thirds of an average crop of winter wheat for Kansas and a condition of 54.3 for the growing corn crop is not what Kansas is accustomed to read at this time of the year, the same thing may be said of about every other agricultural state in the Union. It is purely relative. By comparison Kansas is probably as well off as usual, and it is more than likely that prices will largely make up the difference. The great fact is that the state has escaped crop failure by so handsome a margin in such an unusually trying season and that there is still opportunity for further recovery, thanks to the rains. The report says:

The present inquiry reveals that the inter wheat crop of Kansas in 1911 was approximately 51,365,000 bushels, or nearly 9,000,000 bushels under that of 1910, and the smallest since 1899. It is onethird less than the average production for the decade ending with 1910.

From the assessors' returns from 88 counties it appears, however, that the acreage sown to wheat last fall was considerably in excess of that indicated in earlier unofficial reports. In April correspondents estimated that the probable acreage sown to wheat aggregated 6,950,-000 acres, while the official returns for the 88 counties, and approximations from reliable data for the other 17, make it nearly 7,260,000 acres, or the greatest in the history of the state, the next largest having been 7,235,283 acres, sown in 1906. This year's acreage figures, as given here, however, are subject to such changes as the substitution of the assessors' returns for the 17 counties will make. Likewise the statement as to yield is preliminary and the final figures may be modified somewhat according to the later returns, when threshing is more nearly completed, but such variations will be of minor importance and the present figures should serve every practiof the 7,260,000 acres of wheat sown,

the growers now estimate that nearly 37

per cent was a failure. This deducted, le 4,597,079 acres from which this year crop was harvested.

4,597,079 acres from which this year crop was harvested.

The counties having the highest are age yields per acre are without exertion in the eastern third of the stat Lyon leads with 28 bushels, and Domphan and Coffey are next with 25 bushe each. Others reporting 20 or more bustels per acre are: Chase, Osage, Brow Jefferson, Woodson, Elk, Pottawatomis Shawnee and Wyandotte. The countie with the largest acreages, however, afarther west, and in many of these the losses were heavy, not a few, especial in the western third, reporting practical total failures. Yields per acre gradual diminished from east to west, and in for or six counties no wheat was harveste. On the whole the quality of the cois reported more than usually excelled and of extreme weight, the media grades being limited mostly to those pottions where yields were lightest. Only three counties west of the 99th meridia report so much as 10 bushels per acre were in the center, third of the state were in the center, they do the state were in the center third of the state.

report so much as 10 bushels per act. Even though the higher yields per act were in the eastern third of the state the 18 counties having 1,000,000 bushels or more each are, with one exception, the central third, and aggregate 27,83, 334 bushels, or about 54 per cent of the total crop. Three counties have more than 2,000,000 bushels each, Reno leading with 2,849,265 bushels, followed by Stafford with 2,350,569, and Barton with 2,310,143 bushels. 2.310.143 bushels.

2,310,143 bushels.

Contrary to popular belief, the acreage in corn is markedly less than a year ago Incomplete assessors' returns indicated planting of about 6,930,000 acres, and adding to this the abandoned wheat acre age reported planted to corn, brings the total to 7,681,330 acres, or 15 per cent less than last year, but larger still than (Continued on page 15.)

### FOUNDATION FOR POULTRY PROFIT

By H. M. COTTRELL, Agricultural Commissioner of Rock Island Lines

The foundation for profit in poultry is laid in August. The foundation for profit consists in culling. Severe culling should be done in August, and the process should be kept up during the other eleven months. The farmer who keeps poultry in a careless way to get eggs and some

meat for his table, the egg specialist and the breeder for prizes alike need

to cull their flocks in August and to cull them relentlessly.

The average farm flock at this time of year consists of a number of choice early-hatched pullets, a lot of runty late-hatched chicks, a few yearling hens, a number of old hens, some of whom ceased to lay several years ago, several long-spurred old roosters and a lot of active cockerels,

whose chief business is to annoy the hens and dig up the garden.

Such a flock will average 60 eggs a year per female. Dispose of all but the choice early-hatched pullets and the best yearling hens and the average will rise to 120 eggs per hen per year. The feed bill will be cut in half.

A hen should be kept only through her second laying season. All the

older hens should be fattened and eaten or sold. The young cockerels and the surplus pullets, well fattened, will bring as much in August as they will two or four months later, and it costs from 10 to 12 cents a month to feed each one that is kept over. Male birds should not be allowed with the layers except when the eggs are wanted for hatching, and in most flocks half to two-thirds of the old roosters can be sold and a saving of \$1.25 in feed

be made for each one gotten rid of.

The breeder should cull out all his missits and retain only such birds as come up to his standard and that he is willing to have shown in different

parts of the country as his stock.

I learned this rule of rigid culling from Prof. W. E. Vaplon of the Colorado Agricultural College. The year before he accepted the position at the college he made an average from a large flock of \$5 a hen above the cost

# ROUND THE FARM

days a great deal is written y land farming, a method of culpersistently urged upon those
west of a line which roughly
ands with the 98th meridian. Kanmer has often stated that dry
ming, speaking in a general way,
ly good cultivation—such as it
practice in places where the raineveral times in excess of that in
ry farming is being taught. In
n this statement is correct, but
e variations which the dry land e variations which the dry land finds necessary and which really his kind of farming in a class disits own. The editor has been into this subject of dry farming horoughly of late and will this winter have more to say about restigations by experiment stahich have given dry farming carention convince us that there is beyond the methods of cultrecommended, but these same infinds necessary and which really recommended, but these same inions have prevented us from beso pessimistic as is much of the re sales agents of dry farming The editor has recently had opty to note actual results obtained land farmers and these results derful when compared with those d under methods formerly prac-The man who will master and

in those areas. art of good stacking is almost a t. The loss of hay, grain and from poor stacking is astounding. sof wheat and oats is not so great ould otherwise be on account of wing practice to thresh from the The loss from these grains is increasing as a result of not g. The big loss from poor stacksts in the case of alfalfa hay, and cently compiled figures place this less than an average of 25 per This loss comes very largely from t that stacks of alfalfa are al-to stand 2 or 3 or even 5 years, rip through eastern and central will prove. Poor stacking means the first year and an increasing th year the stack stands. The recently inspected a four-year-old of not less than 100 tons and onehe hay was badly damaged—so damaged that it would not be table and at least 25 tons was of ne whatever as feed. With alfalfalling around \$14 per ton the loss

what is already known about sof cultivation in western Kan-leastern Colorado can make

alfalfa stacks are now given a go from some sort than ever before.

Idicates that the damage from poor g is recognized. Canvas covers ed in many localities but this is ensive method. The rains and sun estrey the heat canvas. Another estroy the best canvas. Another d is a covering of over-lapping wired together and settling close hay. This is the best and cheapmporary covering observed. But a shed is best and permanent, rethe loss to a minimum, and not but little more than the make-The hay shed equipped with rk will pay.

reason for so much poorly stacked is because of the use of insufbelp on the stack when stacking vis used. No one man can stack fter a stacker. The hay lays in the where it fell. The man cannot it around. The old rule "keep the full and tramp, tramp" is a rule lich one man cannot make good stacker. stacker.

mistakes agriculturally show plain-uring a dry year. It is a poor r, or doctor or lawyer, who will not to correct his mistakes when he the error of his practice. A plain of the corn grown this year is that indifference and carelessness in the thing. Thousands of acres will this yield practically pathing because the hg. Thousands of acres will field practically nothing because the stands too thick. The favorable season in many sections resulted in towing of every corn kernel planted stand far too good. Expecting that half of the corn planted would to two times as much as was needed lanted and the result, no crop. Had also been wet the net result would been satisfactory. been satisfactory.

ago d and ere the

thick planting of corn is the direct of poor selection in seed corn. In-of endeavoring to select ears with sof uniform size the farmer too is of uniform size, the farmer too

Editorial Mention and Otherwise On General Topics of The Farm

often fails to give uniformity a thought—
he even shells into the seed corn tips
and butts which makes the variation in
size the more pronounced. Kernels
uniform in size are required for uniform
planting. The planter plate used may be
just right to drop one large kernel in a
hill the desired distance apart. The
same plate will drop two or more small
kernels. The farmer knows this, but figuring that a part of the corn will not
grow he guesses the stand will be all grow he guesses the stand will be all right. A favorable season for germina-tion gives him too many stalks and a dry growing season a short crop or a crop of

To avoid the mistake select ears with uniform sized kernels, then select the planter plate desired, testing out the plate planter plate desired, testing out the plate before using. After selecting the seed corn make a germination test and know whether or not it will grow. If the seed is of low germinating power get good seed. One vigorous stalk every 12 to 14 inches and not a hill missing and pro-ducing one or two ears per stalk will make plenty of bushels per acre in a

another farm not more than three miles distant it took 25 acres to fill a 100-ton silo. The market value of the land was about the same. It can thus be seen that estimates on the cost of production will vary greatly, probably due more to the amount of ensilage produced per acre than to the cost of filling, although that is no small item. The variation in estimates will not be so great if it is figured on the basis of the bushels of corn

produced per acre at market value,
"Professor Mumford of Illinois states
corn yielding 42 bushels per acre and
worth 35c on the market will give ensilage at \$2.75 per ton. In my own instance, last year where it took 18 acres to fill two silos of 110 tons each, and with an estimate of the corn at 60 bushels per acre, at 35c per bushel, and with the labor of filling extending over a period of four days, and costing \$110, and allowing the stalks to be worth \$1 per acre on the market, the cost of entitles of the stalks to be worth \$1 per acre on the market, the cost of entitles of the stalks to be worth \$1 per acre of the work \$2,500.

silage per ton was \$2.59.
"Professor Haecker of Nebraska Station bases his estimate upon the cost of growing the corn and states that ensilage

development of the crop, it having an abundant supply from which to draw sustenance anew as its roots reach farther and farther away from the plants.

Seed Corn-Land Preparation.

Answering Subscriber J. G. E., Hope Kan.: Kellogg's Pride of Saline is a va-riety of white, and Kansas Sunflower, a yellow variety of corn adapted to Dick-

yellow variety of corn adapted to Dickinson county uplands.

If you are desirous, as you say, of doing a great deal of work on your wheat stubble land in preparation for corn next spring, you could do no better than to plow deep this fall. Plow before weeds seed, as the ground should be clean for corn planting. The weeds and stubble plowed under will add humus and plant food, which will next year be available for the corn plant. This is a point in addition to the summer fallow worth considering.

fallow worth considering.

In your section listing corn is the common and best practice. List deep. Test your seed corn. Use a drill plate that will drop one kernel in a hill and 14 inches apart. Too frequently corn is planted too thick. A good ear to the stalk and one stalk every 14 inches will make a hig crop.

make a big crop.

Manure Helps Alfalfa.

A view in alfalfa cultivation not here-

A view in altalia cultivation not here-tofore expressed is given by Wing, the Ohio alfalfa expert. He says: "From experience I feel sure that I had rather take a poor piece of land, well manured, for alfalfa growing, than a naturally rich piece of land with no ma-nure." In another part of his book he

says:
"I once saw a field sown to alfalfa in Canada that was so well inoculated that in six weeks after the alfalfa was sown, the tiny nodules were found on the roots and this field was the first sown in that neighborhood, nor was it artificially inoculated. It had simply been well manured. In other states I have seen the same curious results. In Iowa, on the Experiment Station Farm at Ames, a field was sown in alfalfa. All the seed was sown the same day and in no way was the treatment of one part of the field different from the treatment of any other part, yet there was secured a fine stand of thrifty alfalfa on one side of the field and very thin and poor al-falfa on the other side. The explanation seemed to be that on a previous year one side of this field had been manured and sugar beets grown thereon. Yet all the field seemed very fertile, and Director C. F. Curtiss thought that plant-ed in corn all of the field was rich enough to grow 80 bushels to the acre. But that addition of some stable manure a year or two previously made one side of the field eminently fit for alfalfa, while the other side remained in unprofitable condition so far as alfalfa was concerned."

"Deep Early Plowing Ahead of Eleven Other Methods"

The results of experiments in wheat growing at the Kansas Experiment Station as reported by lectures on the wheat train recently operated by the Rock Island are:

Rock Island are:

Land disked, but not plowed, cost \$1.95 per acre for preparation, and produced 4½ bushels of wheat per acre. The crop, when sold, returned \$1.47 paying for labor required to prepare the ground.

Land plowed three inches deep (too shallow) September 15 (too late for best results) gave a yield of 14½ bushels, a return of \$8.52 per acre after paying for labor required t oprepare the ground.

Land plowed a proper depth, seven inches, September 15 (too late) produced 15¾ bushels per acre and gave a return of \$9.08 per acre after deducting the cost of preparation.

ing the cost of preparation.

Land double disked July 15, to stop waste of moisture, plowed seven inches deep September 15 (too late for the best results, even when land has been previously disked) produced 231/2 bushels per acre, showing a return of

\$14.50 per acre after paying the cost of preparation.

Land plowed August 15, worked sufficiently to preserve soil mulch thereafter, yielded 27% bushels per acre, with a net value of \$18.29 per acre.

Land plowed August 15 seven inches deep, not worked until September 15, showed a yield of 23 2-3 bushels per acre and a recurn of \$15.34 after deducting the cost of preparation.

deducting the cost of preparation.

Land double disked July 15, to save moisture, plowed August 15 seven inches deep, produced 342-3 bushels per acre and gave a net return of \$21.44.

Land plowed July 15 three inches deep (plowed at the right time, but too shallow for the best results) produced 33½ bushels per acre and a net

return of \$22.32.

Land listed July 15 five inches deep, ridges split August 15, gave a return of 34 1-3 bushels per acre and \$23.73 over all expenses.

Land listed July 15 five inches deep, worked down level at once to avoid waste of moisture, gave 35 bushels per acre, from which there was left \$24.35 after paying cost of preparation.

Land plowed July 15 (the right time) seven inches deep (the right depth) gave a yield of 38 1-3 bushels per acre, the highest yield in the experiment. After paying for the cost of preparation, there was left \$25.74 per acre, the largest net return of any method under trial.

good year, and in a poor year will make more corn than the thickly planted. Kan-sas Farmer knows one man who followed the above plan this season with very satisfactory results and will endeavor to have him tell our readers how he does before corn planting time next spring.

Farm Produce in Iced Cars. The Public Utilities Commission will ask that the railroads furnish refrigeration for milk, butter and eggs for local hauls. They are taking a great interest in the care of eggs, butter and milk. It is generally conceded that hundreds of thousands of dollars are lost by Kansas every year because of the methods of handling shipments. Refrigerator of handling shipments. Refrigerator cars are furnished by the railroads for long hauls, but frequently eggs become unfit for food while getting to the concentrating point where the re-frigerator cars are stationed.

Cost of Filling Silo.

The cost of a ton of ensilage depends upon the methods employed in growing the corn and in filling the silo. If a man is a good farmer and raises a large crop of corn and the cost is based on the cost of corn and the cost is based on the cost of producing an acre of corn, it will be seen that his ensilage will cost a great deal less per ton than the ensilage produced by his neighbor who uses a small amount of corn. P. W. Pugsley, Netrocke covers.

braska, says:
"Last season I saw one farm where eight acres filled a 100-ton silo, while on can be grown and put in the silo at \$1.95 per ton. Mr. Richardson of Scott County, Iowa, says that it cost him for growing and filling \$1.15 per ton. I believe careful farmers can easily produce ensilage at \$2.50 per ton, figuring the cost on the market value of the corn if it had been harvested and sold, and at this rate it is one of the cheapest and best foods in connection with alfalfa or clover hay that can be produced in the corn belt."

Discing Stubble Before Plowing.

We must of necessity do more work on our land, pointing to a better system of cultivation. There is in our correspondence indication the farmers are spondence indication the farmers are awakening to the advantages of better tillage. A subscriber asks why it is advantageous to disc stubble before plowing. The fact is that the pulverized surface soil is turned under and aids in promoting a uniform distribution of moisture by maintaining proper porosity of the soil. This fine soil is conducive to maintaining or holding the moisture and resisting droughts.

moisture and resisting droughts.

These conditions establish the ideal seed-bed that will admit of the plantroots reaching down to the very depth of the cultivated soil, while the stubble, small weeds, and all other materials turned under and mixed with this fine soil will form a sort of fertilizing mulch in which are stored those elements so essential to a quick, healthy germina-tion of the seed and a rapid, vigorous Meritorious Resolutions.

These resolutions of the Manhattan Grange set an example for all the grang-es of the state, as well as for all other organizations interested in the best agricultural conditions:

"Whereas, There is an effort being made to introduce the cultivation of tobacco into Kansas, therefore,
"Be it resolved, by Manhattan Grange, P. of H., that we view this movement with concern and disfavor, for the self-evident reason that Kansas can ill afford to devote to a useless and soildestroying crop the best and most fer-tile of her land, which is becoming more and more in demand with increasing population.

"And, be it resolved, That we very respectfully, but most urgently, request those of our Agricultural College who have influence in directing agricultural activities in the state, to use their best efforts to encourage the useful and bene-ficial in agriculture and discourage the useless and wasteful.

"And, be it resolved, That the regents of the Kansas State Agricultural College be most earnestly requested to lend their assistance toward the same ends."

The committee drafting the resolu-tions was A. Munger, R. A. Willis and Alfred Docking.

Old or New Seed Wheat?

Ellsworth county subscriber: If your last year's wheat has been kept in good condition, not heated, wet or wormy, and is of better quality than this year's crop, there is no reason why you should not use it for seed. In fact, it will be better seed than the new crop which you describe.



### FREE DIAMONDS

### **FREE** WATCHES

An opportunity to obtain a fine diamond ring or a full warranted watch ABSOLUTELY FREE.

### IF YOU HAVE NO PIANO IN YOUR HOME.

LIST OF PRIZES.

1 Cluster Diamond Ring.
2 Cluster Diamond Ring.
Solitaire Diamond Ring.
4 Solitaire Diamond Ring.
5 20-year Gold Filled Watch.
6 20-year Gold Filled Watch.
7 Imported Swiss Watch.
8 Imported Swiss Watch.
9 Gun Metal Watch.
10 Gun Metal Watch.

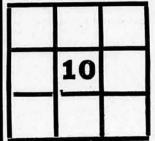
11 Fine Brass Clock.
12 Gold Brooch.
13 Gold Brooch.
14 Gold Brooch
15 Fancy Locket.
16 Ladies' Chain.
17 Fancy Silver Comb.
18 Set Beauty Pins.
19 Pair Roller Skates.
20 Beautiful Doll.
ain pen ABSOLUTELY

FOUNTAIN PENS FREE, every one gets a fountain pen ABSOLUTELY FREE, also credit purchasing letter good towards the purchase of any new plano in our store.

#### GREAT "WELLINGTON 30 PUZZLE." CAN YOU SOLVE IT? IT CAN BE DONE.

It is said that at the Battle of Waterloo, Lord Wellington massed a portion of his army in the form of a "square," so that he could instantly move 30 brigades of troops in any direction—forward, backward or obliquely. By solving the puzzle as shown below, which is now known as the "WELLINGTON STRATEGY," you will learn how the Great Napoleon was in part defeated.

THIS PUZZLE CAN BE SOLVED. CAN YOU SOLVE IT?



DIRECTIONS:—Place any number from 6 to 14, inclusive in the EIGHT vacant squares on the above or any similarly arranged sheet of paper or other material in such a manner that any way the numbers are added, perpendicularly, horizontally or diagonally (including the number in the center square), the total will be 30. The same number cannot be used more than once. Few will get all 8 columns. Some will possibly get 6 columns. Write your name and address neatly, accurately and plainly on your answer and mail or deliver your solution before 6 p. m. Tuesday, Sept. 5, 1911 to the E. B. GUILD MUSIC CO., 722 Kansas Ave., Topeka, Kans. Winners will be notified by mail.

Only one member of a family may enter.
Only one solution will be accepted from same contestant.

Neatness, besides the correctness of the reply sent us, will be taken into consideration in awarding first prizes. Address Puzzle Department K.

E. B. GUILD MUSIC CO.

722 Kansas Avenue.

Topeka, Kansas.

You can't possibly have an implement of greater value in the dairy than a two or four bottle Babcock tester. It will help you determine whether or not the

cream tests received at the station are correct; also you will get to testing the cows and will show up those that are not paying their way.

# FARM POWER



TRACTOR, 45 HORSEPOWER, PULLING FIVE 12-FOOT DRILLS, SEEDING STRIP 60 FEET WIDE AT THE RATE OF 90 ACRES PER DAY.

Joy riding by chauffeurs or drivers in borrowed cars is rated as larceny by the New York state laws, punishable by fine and imprisonment of one to five years.

Somewhere the statement has been made that deep plowing will result in an increased yield of \$5.to \$10 per acre of land. If this is so, and the mules cannot get the plow point into the soil deep anough an engine can enough, an engine can.

A gas tractor eats nothing while resting, never tires and is ready for work at a turn of the wheel. It can't set anything afire; works in all temperatures from 0 to 100 in the shade.

A concrete or cement block garage is a great satisfaction as well as a good fire protection for the auto. Such a garage is water tight, and fireproof. A cement floor is easily cleaned and will permit washing the machine inside the building. Build floor so as to drain to one corner.

In a recent 150-mile railroad trip the editor observed three tractors pulling a editor observed three tractors pulling a road grader and putting into shape country roads. The tractor and grader were doing excellent work. Tractors are largely used by city paving contractors in furnishing the power for excavating machines. The stretches on this work are chort and the chieffing to making are short and the objection to making frequent turns seems no longer to exist.

or disadvantages of the machines name Inquiries are also solicited and ansar from competent persons will be given

The Useful Tractor.

The tractor on the farm arose Before the dawn, at four; It drove up cows and washed the clot And finished every chore.

Then forth it went into the field Just at the break of day; It reaped and threshed the golden rich And hauled it all away.

It plowed the field that afternoon, And when the job was through It hummed a pleasant little tune And churned the butter, too;

And pumped the water for the stock And ground a crib of corn, And hauled the baby round the block To still its cries forlorn.

Thus ran the busy hours away, By many a labor blest, And yet, when fell the twilight gray, The tractor had no rest.

For while the farmer, peaceful-eyed, Read by the Tungsten's glow, The patient tractor stood outside And ran the dynamo.

-George Fitch



THIRTY HORSEPOWER TRACTOR DOUBLE DISKING IN CORN STUBBLE AND DRILLING OATS AT RATE OF 20 ACRES PER DAY.

Siren horns and other noise-making implements which have been attached to automobiles for the purpose of notifying the pedestrians of the approach of a ma-chine have been prohibited in Chicago by ordinance. The freakish noises result-ing from these horns more often serve to scare horses than does the pulsation of the engine or appearance of the automobile.

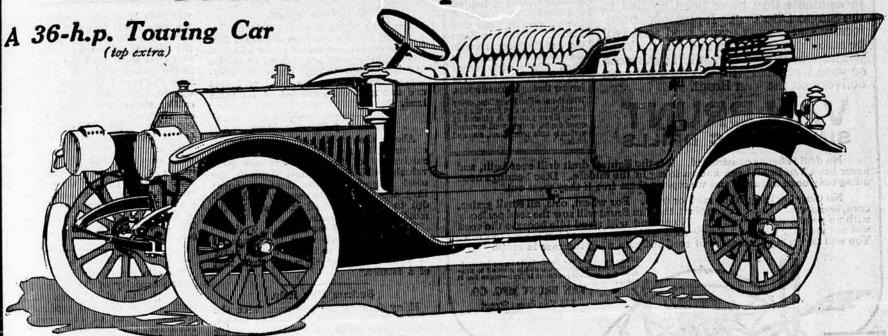
This column, devoted to automobiles, farm tractors, motorcycles, stationary en-gines, each principally of gasoline or kerosene type, will be a permanent fea-ture of Kansas Farmer. This is the first agricultural paper in the west to add such a feature to its columns. The fact that Kansas has nearly 15,000 automobiles, as many or more motorcycles and two times as many stationary engines, and the number of gasoline tractors daily increasing, indicates how interested the Kansas farmer must be in this kind of power for general farm utility and for pleasure. It will be our purpose to give such information as is obtainable and authentic, and invite correspondence from users setting forth the advantages

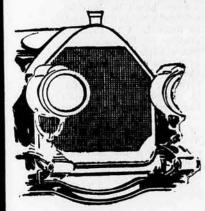
"Over the line" in Canada, specifical in Alberta, Manitoba and Saskatchen thousands of these modern gas trade are plowing, seeding, disking, had making roads, etc. The size most is an engine equal to 25 to 30 g horses or mules. In the corn bet lowa and Kansas they are using a small er engine, equal to 15 to 20 good horser mules. or mules.

Deep plowing is being urged upon farmer, and its advantages are appare quiring more power than ever before do his work. More work on the land necessary and the hired man problem no nearer solution than 10 years at His hope therefore the larger in the His hope, therefore, lies largely in igang plow, the large harrow, the 12-io drill and other large machinery will can be converted at a machinery of plants. can be operated at a minimum of management labor. The gas tractor will be require to furnish the power instead of a lar amount of horse flesh.

A subscriber asks what a tractor re ed at 45 horsepower will actually (Continued on page 15)

# This Big New Maxwell \$1280 1912's Undisputed Leader





DOWER, STYLE and RIGHT PRICE will determine the successful car of 1912. In building the new MAXWELL SPECIAL, the 36-horsepower Touring Car for \$1280, the United States Motor Company has developed these elements to their utmost. Never before has such a car been offered at this price.

We realized that most cars today are reliable and efficient. Therefore, we set out to

build a car that would outclass all others in these three essentials. We instructed our corps of engineers to embody abundant power and surpassing style in this new car, knowing that our purchasing and manufacturing facilities enabled us to build the car at a lower price than any of our competitors.

When we were satisfied with the car, we found we could fix the price at the surpris-

ingly low figure of \$1280. The new 36-h.p. Maxwell Special unquestionably assumes instant leadership for 1912.

The Secret of power in this new Maxwell Special is its 41 x 51 long stroke,

smooth-running motor. Large valves, adjustable push rods, self-contained automatic oiling system, Stromberg carburetor, dual ignition with Splitdorf magneto and batteries, combine to produce more power and greater speed than will

The power is there for emergencies. Gear shifting is reduced to a minimum, as this car takes the steepest hills with ease, and with enough reserve force to cope with the unexpected.

Other mechanical features include large clutch discs, full-floating rear axle, sliding-gear trans-mission, drop-forged "I"-beam front axle and Columbia Honeycomb type of radiator. Wheelbase, 114 inches.

This new ventilated foredoor, flush-side vestibuled steel body, with inside control, is the very latest thing in motor-car design. Its sweeping curves with a Columbia Honeycomb type radiator, new designed bonnet, and long, smooth flush-sides are strikingly beautiful. Finished in Royal green with Wedgwood green wheels and black upholstering, deep and well tusted, this car has an atmosphere found only in the most expensive cars. It is an aristocrat;

The price of this car is made possible by the unequaled factory facilities of the United States Motor Company, now recognized as the leading builders of automobiles in America. No car selling for \$500 more than the price we ask can match the Maxwell Special. Comparison with other cars will prove this statement beyond argument. We urge comparison.

the most artistic creation of the season.

THE NEW MAXWELL SPECIAL will be unquestionably the Leader for 1912. In addition we announce three other models:

The Maxwell Mercury, a 80 -h.p. mile-a-minute Roadster, for \$1150. The Maxwell Mascotte, a 25-h.p. Touring Car, for \$980; or a Roadster body for \$950. The Maxwell Messenger, a 16-h.p. Runsbout for \$600 about, for \$600.

#### MAXWELL MERCURY Here is a test-A 30-h.p. Roadster, \$1150 minute road-

ster with smooth, flush-side vestibuled and ventilated fore-door body, which is the height of perfection. Wheel-base, 110 inches. It is equipped with high-tension racing magneto, Stromberg Carburetor, Columbia Honeycomb type of radiator with new designed hood, demountable rims, and a wealth of refinements, and is listed at \$1150 (top extra). It is another instance of exceptional Maxwell value.

MAXWELL MASCOTTE No car has A 25-h.p. Touring Car, \$980 such unswerving popularity as the Model "I" of which the MASCOTTE is the offspring.

We regret our inability to supply all the cars of this type that were demanded this but the increased production next year should enable us to meet the demand. It is the prettiest four-passenger touring car you have ever seen.

Among its features and refinements are a four-cylinder motor (4 x 4), supplying 25-h.p.; 104-inch wheel-base; new ventilated fore-door vestibuled body with smooth, flush-sides and

inside transmission control, artistically finished in dark blue with battleship gray wheels; oil reservoir, cast integral with the crank case; Columbia Honeycomb type of radiator with new hood of beautiful design; irriversible worm steering-gear mechanism; Stoddard-Dayton type of spark and throttle control under steering wheel which will be 17 inches in diameter; springs of imported English steel, ball-bearings of German Chrome Vanadium. The touring car with extrawide rear seat, \$980; fore-door roadster at \$950.

### MAXWELL MESSENGER A 16-h.p. Runabout, \$600

about with numerous

refinements is beautifully finished in dark blue, with light-blue wheels. The car should have no trouble in retaining the leadership in runabouts that has been held by its predecessor, known as the Model "AB." Every manufacturing year has seen a shortage in these cars. The price is the same, \$600, equipped with magneto, top, three oil lamps, two gas lamps and generator.

Satisfied Owners' To facilitate constant and unfail-

Satisfied Owners'
Free Inspection
Service

minor repairs and adjustments, lack of experience in, and mechanical knowledge of, the construction and skillful operation of his car, upon the part of the owner, we have instituted a Free Inspection Service.

The few motor troubles in cars of today are generally due to reglect of unsuspected minor difficulties and can be avoided

to neglect of unsuspected minor difficulties and can be avoided by frequent inspection and instruction as to proper adjustment.

For one year after date of purchase, a Maxwell owner may take his car to the nearest Maxwell branch or dealer once may take his car to the nearest Maxwell branch or dealer on a month, if necessary, for a thorough inspection without changes by the use of our Free Inspection Service, you redu your car trouble and repair expense to a minimum.

This monthly inspection service is in addition to the Company's standard warranty against defective material and warranty manship, as published in our catalogue.

We care for your car wherever you are.

Ready for immediate delivery at our 27 branches and 1800 dealers. Send for advance catalogue.



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Maxwell-Briscoe Motor Company at 61st Street Division of UNITED STATES MOTOR COMPANY

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The new forward seed delivery on the Van Brunt is one of the greatest improvements that have been applied to the Single Disc Drill. It plants seed uniformly and covers every seed so it will be safe from frost, sun and birds. Your winter wheat won't frost kill or dry out so soon if planted with this forward seed delivery on the Van Brunt.

### VAN BRUNT SINGLE DISC DRILLS

No drill is better constructed. It is the lightest draft drill ever built, and never has a Van Brunt been known to sag in the middle. Disc bearings need oiling only once a season, and we replace them free if they wear out.

No clogging in gumbo, mud or trash. For wheat, oats, all small grains, corn, beans, etc. Whatever you plant, the Van Brunt will sow the seed perfectly with no possibility of bunching. No ground will stand idle because the seed was not properly planted. Every seed with the germ of life is sure to grow. You will save a big percentage of seed and gain a big increase in crops.



**We Invite Comparison** of This With Other Engines

A great many engines are advertised for pumping purposes. We have nothing to say against any of them. In fact, we urge you to write for other catalogs and get all the information possible. Study the quality of materials, the design and the records of these engines as well as our own. You need not be an engine expert to make a wise selection. Just use common sense and good judgment. We are willing to take our chances that you'll decide on the

## Fuller & Farm Pump Engine

### The "Complete-in-Itself" Engine

You will find that the Farm Pump Engine is a complete power-plant. Everything but the gasoline comes packed in the ship-ping crate. Needs no belts, no pump jack, no anchor posts or specially constructed platform. Just bolt it to the pump standard and start it. It will pump

### 400 to 1,500 Gallons Per Hour

Supplies abundance of fresh water for all the Fuller & Johnson Manufacturing Company. Farm purposes. Runs any Domestic Water Pressure System. Gives instant fire protection. The engine is as high grade as best automobile engines. It is built and guaranteed by WRITE FOR FREE EMCINE LOOK and name of nearest dealer who has the Farm Pump Engine on exhibition. At the same time swrite for other engines actalogs, for purposes of comparison. Do this now and let your final decision depend on a comparison of other engines with the famous Farm Pump Engine. (310)

FULLER & JOHNSON MFG. CO.

(Estab. 1840) 8 Knight St., Madison, Wis.

On a Gasoline Engine According To Size ranging from our famous 1 3-4 H. P. Pumping Engine (\$39.50) up to 28 H.P.

Buy from a real engine factory—save dealer, jobber and catalog house profits. No such offer as Imake on its high quality engine has ever been made before in all gasoline engine history. I operate the largest factories of their kind in the world; manufacture engines in tremendous quantities and il direct to the user with just one small profit added to cost of material and labor. No use paying big profits to lot of middlemen. GALLOWAY WILL absolutely and positively save you from \$50 to \$500 on a gasoline engine at will exactly meet your requirements. Anyone can afford an engine at the prices I am charging. I self for set than dealers and jobbers can buy for, and I give you besides, the best engine possible to build with a 5-year guarantee, and \$30 day free trial.

Why not sell your poorest horse and buy a Galloway 5 H. P.! You will be money ahead at the end of the year.



Get Galloway's Biggest and Best Free Gasoline Engine Book

fully illustrating and describing all Galloway engines. The most complete engine book ever written. Printed in four colors and containing hundreds of letters from men all over the country who have long been using Galloway engines and know that they are. Don't wait—don't put off! Sit right down wand write me for this book, because it actually means a say-to you of from \$50 to \$500 on a Gasoline Engine. It will pay you.

WH. GALLOWAY, President
THE WM. GALLOWAY CO., 385 Galloway Sta., Waterloo, Iowa

### Forward Seed Delivery



The seed discharge on ordinary drills is behind the discs or open against the upward turning disc blades. On the Van Brunt the seed discharge is within the circumference of the discs. The seed is carried

way down into the bottom of furrow through closed boots. With the newVan Brunt Disc, every kernel beats the dirt into the fur-row. Every seed is planted at equal depth, and is well covered, perfectly safe from frost, sun and birds.

# HE FARM

Ten Sheep to Acre.

The flock of sheep at the Arizona Experiment Station numbers 371 head. This flock is grazed and fed on about 35 acres. About thirty acres are planted to alfalfa and the balance to milo maize. In addition to these sheep, six head of horses and two milk cows are fed on the same

#### Thomas Jefferson's Ideas.

About the middle of the eighteenth century Thomas Jefferson wrote: "The cultivators of the earth are our most valuable citizens, the most vigorous, the most independent, the most virtuous; they are tied to this country and wed-

ded to its liberty and interests by the most lasting of bonds."

Some 40 years later he again wrote:
"When I entered upon the stage of public life I came to the resolution never to wear any other character than that to wear any other character than that of a farmer."

#### Suckers May Help.

Many farmers are possessed with the idea that the suckers, or earless stalks, which grow from an ear-bearing stalk of corn, are a hindrance to the best growth of the latter and valuable hours are sometimes spent in removing them. But actual experiments during two successive years on Nebraska farms demonstrated that corn with suckers left undisturbed outyielded that from which the suckers had been removed. Their leaves, like the others, would seem to perform a useful office in absorbing nutritive elements from the atmosphere for the benefit of the ear on the main

#### Late Manuring of Alfalfa.

A Sedgwick county reader says that late in the spring he heavily manured a piece of thin alfalfa and the growth this season has not been as good as on that part of the field not manured.

The reader says the field was manured late, and with the small amount of rainfall this season, the manure has not been available for food for the alfalfa plant. Lack of moisture in all probability left the ground in worse condition than if it had not been manured. It is than if it had not been manured, unwise to manure pastures or meadows late in the spring. Fall manuring, givsolve the manure and the fertilizing contents a chance to soak into the ground, is advisable.

### Kansans at Dry Farming Congress.

Kansas is to have an important place in the deliberations of the international dry farming congress at Colorado Springs, October 16 to 20, and a notable exhibit will be made at the exposition of dry-farmed products. President Waters of the Kansas Agricultural College, will address the congress on the magnitude of the dry farming movement and the significance of its development. Dean Webster is to prepare an address on "Live Stock and Its Relation to Profitable Dry Farming," and Prof. W. M. Jardine is to discuss "Potatoes as a Dry Farming Crop." Supt. J. H. Miller or The farmers' institute department will the farmers' institute department, will have charge of one of the institute sections of the congress.

### Plow Deep.

Here is the kind of proven advice Farm, Stock and Home is giving the farmers of Minnesota, and the advice is ood for Kansas farmers: "Don't be afraid to put the plow down and break through the "plow sole," or hard pan that has been formed by years of one-depth plowing. When your neighbors tell you that it will spoil your land to plow deep, ask them what land is good for unless it holds enough water to grow and mature the crop. Deep plowing increases the water reservoir; it gives a larger feeding ground to the plant; it is insurance against drouth and hot winds, and marks the beginning of increased yields and assured crops. Sharpen the lays, put on an extra team, raise the clevis, and plow deep.

### Room for Horse and Automobile.

The last government statistics on the animal industry of the United States prove considerable of a surprise to those

who have been imbued with the idea who have been imbued with the idea at the automobile was fast superceding horse in use and popularity as well at the amount of money invested. The statistics show that the value of hor in the United States of all classes at time the report was compiled last yewas \$3,500,000,000; the value of all teatle, sheep, and hogs, \$2,500,000,000 of all grain crops (1910) \$3,000,00 of all grain crops (1910) \$3,000,00 000; the cotton crop, \$1,000,00 000, while the value of all the automobiles in the country was only \$600,00 000, showing that the value of thorses in the United States was almost \$3,000,000,000,000 greater than all the automobiles. The government report at mobiles. The government report at states that while the amount of increasin the automobile industry is \$100,000 that of the horse is \$500,000

#### Value of Silo.

The silo practically increases the producing capacity of the farm at least per cent, and often more. A 160 ar farm with a silo will produce as more revenue as one of 180 acres without Therefore, the first cost of a silo-fit that of a dwelling house a barn Therefore, the first cost of a silo—it that of a dwelling house, a barn of team—should be considered part of the original investment. And, if one's capit is limited, it is better to buy a far smaller by 10 per cent, rather than dispense with a silo. The producing value of a silo on \$50 land would be equal that of 20 acres added to the 160-acres added to the 160-acres and that of 20 acres added to the 160-acres and the silo on \$100 land, it would be equal that of 20 acres added to the 160-acres acres to the silo of the si farm, or \$1,000; on \$100 land, it won be \$2,000. This is a low estimate, to the stock-carrying capacity of the far often will be increased fully 25 per cer. by the adding of a silo. As compare with its producing value, the cost of constructing the silo is small. Rom wooden silos cost from \$1.50 to \$3 ps ton of capacity; those of stone, brick of cement, from \$2 to \$4.—Minnesota Balletin

### Moisture in Roads.

Stone is perhaps the ideal road meterial, but it is usually out of the question, writes W. C. Palmer, road expert Earth roads can be made. The keynol to success in making them is controlling the moisture. When there is too much of it the earth becomes mud; when to little the result is a little the result is little the result is dust. There is happy medium between these two ex tremes, when the soil packs hard. In mos soils, excepting clayey ones, it is no difficult to maintain this favorable mos ture content. Keep the center of the road higher, so that water can road higher, so that water can not remain there. When it does, the result is ruts in wet weather and in dry weather the sides of the road are ground up into dust. Drainage ditches should be provided along the road. I water stands there it will soak under the roadbed and soften it. Another in portant, factor is to keep a space of portant factor is to keep a space of 15 to 18 feet free from grass and weeds which, if allowed to grow on the road take up so much moisture that the soil grinds up into dust.

### Corn and Alfalfa Compared.

On an Illinois experiment farm last year equal areas were in corn and alfalfa. The proceeds from the alfalfa crop were more than three times those from the

Comparing the amounts of plant food removed by the alfalfa and the corn, we find that a ton of alfalfa removes 50 pounds of witnesses. pounds of nitrogen, 4 pounds of phosphorus, and 24 pounds of potassium worth at market price, exclusive of the nitrogen, \$1.92. The nitrogen in alfalfa is not taken into account, because the alfalfa can get its supply directly from the air, through the bacteria on its roots

A ton of corn, equal to 35 5-7 bushels, contains 35 5-7 pounds of nitrogen, 61-14 pounds of phosphorus and 6 11-14 pounds of potassium, worth at market value,

The nitrogen in the corn must be considered, since this plant does not and sennet seement cannot secure a supply of this element except through the soil. A crop of corn, therefore, depletes the soil of this element. ment. For a 72-bushel crop of corn, the value of the plant food removed will be \$12.74 be \$12.74, and for a 5-ton crop of alfalfa the value of the elements taken from the soil is \$9.60.

st of Growing Crops in Nebraska.

n average of reports for two years we that it cost the farmers reporting cents per bushel to produce corn, cents to produce oats, 54.9 cents to uce wheat, \$5.37 per ton to produce lhay, \$4.18 per ton to produce clover \$3.10 per ton to produce alfalfa. he figures used were secured by corondence with the best farmers in ous communities. The yields are contrably higher than the average yields

rably higher than the average yields

he state.
he cost of production does not inhe cost of production does not inhe marketing, and includes time for
and team at the average rate of
be per day only while in the field.
t was found that the two greatest
tors influencing the cost per bushel
per ton were the price of land and
yield per acre. The yield per acre can
increased by enriching land, using betmethods of cultivation and better

at the average market price, the most fitable crops were alfalfa, winter eat and corn. Crops which are profit-e in one section of the state may not

profitable in another.

it was found that the growing of ver and alfalfa in rotation and the of barnyard manure greatly reduced cost of growing corn per bushel.

### English Farmers' Methods.

The English farmer and stockman actice many valuable methods which lid be adopted to some extent by isconsin farmers," says Prof. J. G. iller, who has made a six months' ady of European live stock centers. the breeding and feeding of live stock. e English farmer operates with more siness ability and thus avoids losses reverses such as frequently occur

this country. "The even climate and abundant rain-Il favor the growth of grasses and per-t grazing almost the year around, rticularly in the south of England. animals are not subjected to severe thacks due to intense heat or severe ld, and a uniform growth results. hese meadows are very carefully esblished, being sown with mixtures of blished, being sown with mixture of eds often containing a dozen or more rieties of grasses and clovers. The land thoroughly tilled, for in tillage prace the English farmer is much more brough than his American cousin. They re often fertilized, manure being carefulspread, being supplemented, when edded, by commercial fertilizers.

eded, by commercial fertilizers.

"A reserve feed supply in the form of an are an are always wilable to be used in case of an unexceed shortage or the unusually high rices of grain. Grains are very carelly fed and are not wasted. The grass and roots are the basis of the ration, and rain is used only for particular purcess, such as finishing market animals reveloping breeding stock. This practice keeps down grain bills, which are kely to be high where grain is so exercise.

ensive.
"Whether he is a builder of fine reeding stock or a producer of market mimals, the English farmer keeps fully aformed on market demands and fices. He frequently visits two or hree local markets a week to study the hanges in values and the classes of tooks in which he is interested. He has gains quite valuable experience as judge and can recognize merit at sight. Any and the wide-awake English farmit is ready to meet its highest demands.

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"The low cost of farm labor—75 cents of \$1 a day—permits the farmer with a fact of 100 or 150 acres to hire all his field work done and to devote his own time to managing its affairs. The English farmer is a good business man and keeps posted on values of grains, stock, etc. He does considerable dealing, buying and selling for a small margin being and selling for a small margin be-cause of the good local markets."

### Why Not Fertilizer?

The farmer in any fertile country deplores the time when he will find it necessary to use commercial fertilizer on his fields, yet he will continue cropping year after year without a thought of repleniation. replenishing the soil with the elements of fertility removed from it. The manufacturer continually improves his plant with the view to the greatest possible output from his machinery and labor. Why not the farmer strive to make his land rights are realizing a why not the farmer strive to make his land richer year after year, realizing a maximum of crop production at a minimum cost? The thought of purchasing commercial fertilizers may not be a pleasant one, because associated with it is the thought of worn out land and agnicultural powerty.

There is one other phase of the matter which appeals to the wise farmer,

Install My Chatham System on Your Farm and You'll Be Richer by Thousands of Dollars MANSON CAMPBELL Father of the Famous Chathe System of Breeding Big Cre

I'll Prove This Free

Over a quarter million farmers are now getting RICH, because

Over a quarter million farmers are now getting RICH, because they have taken up the Chatham System of Breeding Big Crops.

Yet there are farmers who continue to handle their crops in the regular way, content to reap but half what their land might just as well be producing. They loss as many dollars each season as they because the Chatham System won't work on their farms that they are not practicing it. It is because they have never looked into the Chatham System to practicing it. It is because they have never looked into the Chatham System to you not understand it—how simple, how inexpensive, how astonishingly profitable it is.

Now, as you are among those who have not put my Chatham System to a test, I will make you this proposition:

I will install the Chatham System on your farm and bear all the expense. I will not only furnish all instructions free, but all Equipment as well have, what kind of crops you grow or your cultivate them, I'll show you how you have you not neighbors grow ordinary crops and for the proposition of the original equipment.

I'll show you have not practiced the proposition of the proposition

Write Me Today

I'd like the chance to show you how to make that good old farm of yours grow bigger cropes. You don't realize how easy it is to grow hundreds of bushels more grain with no extra work or expanse.

**CHATHAM** 

Grain Grader, Cleaner and Separator

MANSON CAMPBELL, President Manson Campbell Company Detroit, Michigan

Minneapolis, Minnesota

See the Chatham Mill at your dealer's. If he hasn't it and won't get it, tell us and we will see that you are supplied

and that is regarding the liberal use of fertilizers on already productive land, provided he can figure out a profit from the application. The unwise farmer will not use them, even if he can figure a profit from so doing.

Here is an astonishing fact: That many men, after having fully recognized the value of fertilizer using, still continue to scratch over half-fertile land, which they farm often at no appreciable

Today more than ever before we have a vast fund of information on the value of fertilizers. Almost every phase of agriculture has been investigated as to its relations to the various kinds of fertilizers that are available. The books are full of the experiments, and the various governments are constantly sending out new bulletins telling what results can be obtained.

It is certain that if the liberal use of fertilizers were not a paying process, the campaign of education in favor of them would long ago have died out. The fact that the education is continued from decade to decade and from century to century proves of itself that the matter is one of vital interest to the farmer and to the food-consuming world at

This thought must be kept to the front: It costs just as much to till an acre of land that is not fertilized as one that is fertilized. Probably it is safe to say that it costs far more to till an acre of non-fertilized, little-productive land than it does an acre of productive land.

The writer has seen the wonderful effect of fertilizers again and again. He has in mind one very highly fertilized piece of land that was last spring put into several kinds of garden truck. Now, when the hot weather is daily wilting many fields, this highly fertilized acre is a mass of green and does not show any signs of deterioration. The roots of the plants have struck deep and evidently are in a stratum of moist soil that is supplying them with all the moisture they need. This is always the effect of high fertilization. Drouth resisting plants are the deep-rooting plants, and plants do not strike deep into soil that is deficient in plant food.

Principles of Weed Control.

Weeds may be roughly divided into two classes: Those which grow and spread entirely from seed and those which, in addition to this, propagate by means of perennial roots or underground stems. The first class is made up largely of annuals, plants which start from seed, produce flowers and ripen seeds the same season, after which the whole parent plant dies. The pigweeds. whole parent plant dies. The pigweeds, tumbleweeds, marsh elders, wild sun-flower and mild mustard are examples of such weeds. They are best controlled by rooting them up while young, as in hoeing, cultivating, pulling by hand, and, in same cases, by chemical sprays. To prevent their going to seed is the prin-

cipal thing.

In the second class are found the poverty weed, iron weed, Canadian this poverty weed, iron weed, ir tle and field morning glory. Such plants, when once established, are very persist-ent and constitute our worst weed pests. When cut off or pulled up, new sprouts When cut off or pulled up, new sprouts soon appear from the underground parts, while cultivation in the ordinary way often serves to scatter pieces of the plant to other parts of the field, where they may take root. The only remedy consists in digging out and removing every part of the plant, in choking it out by means of some stronger growing out by means of some stronger growing crop plant, such as alfalfa, or by starving the underground parts of the plant. The last method is accomplished most frequently by careful and constant hand hoeing and pulling, on small areas, sup-plemented by thorough cultivation on large areas. To be effective this method requires that every sprout which comes above the surface be cut off, or pulled, or otherwise destroyed.

The food of such plants is manufactured in the leaves that come to the light, hence if every sprout is cut off before the leaves have time to get to work, it is merely a question of one or two seasons until the underground parts are no longer able to put up new arrenuts.

Anything that kills the foliage will also accomplish the same thing. Unfortunately, most of these plants are not greatly injured by chemicals other than those that are poisonous also to animal life.

BARGAIN IN WHITE ROCK COCKERELS.

COCKERELS.

I have a few exceptionally fine White Plymouth Rock cockerels, hatched in May. Some of these birds will develop into prize winners, worth from \$15.00 to \$50.00. Owing to limited room I will ship one of these cockerels to any address desired for only \$3.00. If not satisfactory will refund money without question. References German American State Bank. Topeka. Kansas. Address State Bank, Topeka, Kansas. Address

J. E. SPALDING, Topeka, Kan.

Turning the infested area into a sheep or hog pasture for two or three years, especially if the animals are somewhat crowded, has been found effective in some cases, such as land infested with

some cases, such as land infested with the field morning glory.

In any case, persistent, thorough work is necessary to success in eradicating weed pests of this character and the best time to begin is just as soon as the weed is discovered, and before it covers large areas.—Colorado Experi-ment Station Bulletin.

Because you are feeding the calf liberally on skim milk do not conclude that he needs no water. The calf requires water. See that he gets it.

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

### Farm Boy Takes Care of Himself.

An exchange suggests that what we now need is a city life commission to renow need is a city life commission to re-port upon the way people in the cities are living. There is very much more poverty, ignorance and incapacity in the cities than in the country. The country boys can make a living, no matter where they land, and that is more than can be truthfully said of the boys of city rear-

## Get Our Price On The Only Cyclone Proof Mill

T'S a wonder. Here's your chance. Absolutely the only reliable, self-regulating windmill—adjusts its folding wings automatically to all winds—cannot break or carry your tower down. Large wind surface—works in lighter winds than other mills. It requires less attention than others. Patent grease cups hold grease enough to oil it for a year—no climbing towers. No creaking or groaning noises—no sleep lost. This mill is the greatest wind-engine ever built. Made to fit any tower, or we furnish tower. Costs practically nothing for repairs in a lifetime's service. Many in use over 40 years. Will outlast any two steel mills—gets one stroke of the pump with each revolution. If properly cared for, there is no "wear-out" to

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Every part is built of the very best material. Every mill is tested and inspected by experts before it leaves our factory. You can't go wrong when you choose this mill. Thomas Cripps of Cottage Grove, Wis., who bought one in 1873, writes: "This mill has given me perfect satisfaction. The cyclone, which destroyed thousands of dollars worth of groperty, had no effect on it."

Don't decide on any mill till you have all the facts. Get our Free Book on Wind Power. Read about the miraculous triumplas over cyclones. You'll be surprised at this wonderful mill. Without an equal. The letters of farmers who have tried other makes prove it. Biggest power value for the money. Our ironclad guarantee protects you. A free book for you. Write a postal for it now,

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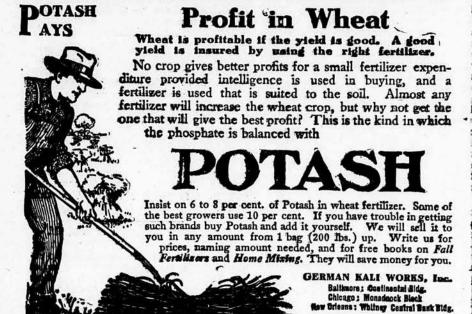
# LIVE STOCK COMMISSION

Kansas City, Chicago,

East St. Louis, East Buffalo,

Fort Worth.

### Mention Kansas Farmer When You Write



# LIVE STOCK



Contagious Abortion Investigation.

There has been so much trouble in Wisconsin over contagious abortion that the departments of veterinary science and agricultural bacteriology of the Experi-ment Station of the University of Wisconsin are conducting an investigation of the disease with a view to finding means of prevention and cure.

White Scours.

Replying to Orleans (Kan.) reader:
When calves are attacked with white when calves are attacked with white sceurs, usually within 24 to 48 hours after birth, they generally succumb to it. The disease is caused by a contagious germ which passes to the calf's body through the naval chord shortly after its birth. Tie this end of the cord at birth and apply to it a disinfectant.

"Big Black Pig."

A subscriber asks what we know about the Big Black Pig and if we would rec-ommend his breeding them.

The breed is new in America, but has for more than 100 years been bred in England, where is is said the breed is quite popular. It is claimed that the breed possesses fine beeon qualities and that the sows are prolific breeders, the litters running as high as 17 and 18 pigs, and usually 14 to 15 are saved, and that they

rapidly mature and fatten quickly.
We would advise our reader to stick to
the well-known breeds which have been successful in this section.

Value of Manure Per Animal.

The manure product from a single cow, according to figures of the Department of Agriculture, ranges in value from \$30 to \$40 a year. The correspond-ing figures for horse manure are not presented, but it is presumed that the value would be equally great, if not greater, since horse manure is heating, and if kept from fire-fanging, has an additional value beyond its own fertility in causing bacterial fermentation and rotting of bedding and other waste ma-terial. This estimate of the value of cow manure alone, however, indicates how very important it is to the farmer to finish his live stock on his own farm and thus build up his soil.

Now's the Time to Hold On.

The season has been such as to cause the usual panic among live stock growers. Every year of short pasture or short outlook for feed sees thousands of cattle rushed to the market and sold at a low figure. Many of these animals are sold to sections which have poor feed, but still a large percentage is killed, and the net result is a shortage. When there is a shortage, or a shortage is in sight, it is the farmer's business to hold. Higher prices follow a shortage, always. The farmer can hold, if he's determined so to do. With his few head of cattle he can hold much more easily than the man who has thousands. Under such conditions strive with might and main to keep the cows and calves, because when things look better, they will be worth much more money than now. sell now would mean a sacrifice in price and to buy next spring will require a long figure. Den't get panicky. Stand to your guns.

Movement for Pure-Bred Sires Spreads. The Pure-Bred Sire League, which was recently originated by Dr. Alexander of Wisconsin, is spreading rapidly. The live-stock breeders of Illinois organized "Pure-Bred Sire Club" last month and the plan has been introduced in Indiana Michigan, Louisiana, Colorado, and some other states.

In joining this club each farmer pledges himself to use only pure-bred registered sires in the production of all farm animals so far as possible; to advocate the general use of pure-bred sires and secure at least one new member to the club; to work for the improvement of pure-bred sires in breed, character, individual excellence, quality, size, sound-ness and prepotency; to discourage the use of grade, mongrel and scrub sires, and the sires and dams, irrespective of breeding that are diseased, hereditarily unsound, constitutionally unfit or undesirable in conformation and charOats as Horse Feed.

The oat grain contains a higher proportion of muscle-building material than does corn or wheat, while the other fatdoes corn or wheat, while the other fat-forming materials exceed that of wheat and nearly equal that of corn. This grain in itself contains a well-balanced ration for the horse. The mettle shows by horses fed on oats has caused some by horses fed on oats has caused some people to believe that this grain con-

tains a stimulating principle.

New oats will soon be on the market for feed. Old oats are usually so called after they have gone through the sweat. There is a change which takes place in this sweating process, because of which old oats may be fed without fear of dan. ger to the digestion of the horse. Not so with new oats. Care must be taken in feeding new oats, or oats, in other words, that have not gone through the sweat New oats are not fit to feed hard-work. ing horses. They loosen the bowels of the horses, soften the horses, make them sweat easily and in general put them out of condition. Often colic results.

#### Good Roads Would Help.

"Along with educating our young people to get the most out of farming," said W. F. Rankin of Torkio, Mo., "good roads are the most important things to develop in this state. There is only one way to get them, and that is to tax ourselves for them. We have very good roads in our county, but very poor bridges. The stone and concrete bridges are the only ones and concrete bridges are the only ones. that are really economical to build. Iron

and wooden bridges are too short lived.
"I am not one of those who consider the buying of motor cars in any sense a craze. When things get adjusted the motor car will take an important place in the work of the farmer. It is a good roads advocate. It puts an end to the loneliness of farm life. One would not think of driving eight or ten miles belief hind a team to attend a lecture or an entertainment or to spend an evening with a friend, but that is just exactly what one would do in a motor car in the country. The motor car and the telephone keep the whole country in communication."

Lime for the Cow.

"The importance of lime has been shown by some experiments at the Wisconsin Experiment Station in relation to milk production. . It seems from investigations that lime is indeed one of the greatest factors in agriculture. Not many years ago our best scientists ignored this important substance on the ground that plants under favorable conditions can grow without the element of calcium, which is the basis of lime, but further investigations have shown that in practical agriculture the lime is essential in bringing about the favorable conditions. But it is not only plants that need the medium of lime to enable them to make growth; animals are in even greater need of it. A cow, according to the Wisconsin investigation, gives in her milk and manure two ounces of lime a day. A cow that was fed what might be otherwise considered good ration for 120 days was really only getting one ounce of lime a day, so that she had to draw on her body for an ounce a day. a day.

### Mature the Pigs Early.

There is quite a general tendency among farmers who keep but few hogs spring pigs through th mer as cheaply as possible and finish them on the corn crop. The trouble with this plan is that if the pigs are not kept growing throughout the season so as to have well developed frames when comfeeding begins, they will not reach mar-ket weights until late in the fall, and the cost of the finished product will be much greater than if the pigs had been fed better earlier in the season, even upon more expensive feeds. Pigs, and in fact, all young animals, make much greater gains upon a given amount of feed during the early period of their lives. It takes a certain amount of feed for a maintenance ration, simply to keep the animal alive and repair the body tis-sues, without making any gain at all. The longer the period during which this maintenance must be fed, the greater r fat.

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Cured Spavin

Two years ago, I bought a pair of fine black are. Inabouts ix months one had a Spavinimply used your Spavin Cure, and cured statirely, which mystified all the horsemen.

M. S. Culver, Union City, Conn.

Letters like the above are received by us div from grateful horsemen.

**Kendall's Spavin Cure** 

the only safe, sure cure for Spavin, Ourb, sint, Ringbone, Bony Growths and all ameness. Save your horses with the old stable cure. Leaves no white hairs or scare, if the vorid's best liniment for man and sat. At druggist for book, Treatise on the orre," or write to

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### RAW GROUND COLIMESTONE FARMER'S

BEST INVESTMENT on his own land by building up his, permanently increasing the value of land by enriching the soil and conting the moisture, thus helping his so moisture in drouthy times with

w Ground Limestone apest Fertilizer on the market. A least for Alfalfa, Wheat, Clover, is and all grains. Strengthens the its of all Fruits and Vegetables, projug a vigorous growth and ripens the it earlier. The only form of lime ferter that will sweeten sour soil with lever.

Send name for booklet of endorsements and terms

ESTERN CRUSHED ROCK & CONCRETE CO.

Reliance Bldg., Kansas City, Mo. tributing agents wanted in all towns.



Grew bigger erope next year by sewing Wonderful Yielding SULTANA

This improved strain of Turkey Red Winter Wheat will make you a for-tune, 30 to 40 bus, per acre. Genuine Iowa grown. Learn all about it. Send now for prices and FREE
Gives prices on all other fall send HENRY FIELD SEED CO. Dept. W 55

VETERINARY COURSE in the

ansas Agricultural College Approved by United States Govern-leat, Graduates take high rank and re unusually successful. Send for

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ORN HARVESTER

mething new; cuts complete shock but stopping team; makes shock row 60 % rods apart and leaves the land clear seeding or plowing; just what the stopping team seeding; sold direct; they suarnited; price \$20; write for circustics. CORN KING HARVESTER CO., 1522, Salina, Kan.

the cost of the gains secured. Then the animal that is not well fed from the start and continuously to maturity, does not get a corresponding development of his digestive organs as compared with the well fed individual, and when it is desired to finish such an animal it will be found that he has not the capacity to digest and assimilate a large quantity of feed, and that for this reason he will not make as rapid or as profitable gains as the one that has been well nurtured from the start.

Then this common plan of carrying the bulk of the spring pigs through for a late finish has a bad influence on the market, since large numbers of this class of hogs are dumped onto the market at a time when it is over supplied, with the natural result that prices take a slump. As a practical proposition, it is usually the "early bird that catches the worm" in the maturing of the early spring pigs.

### Feeding Hogs Green Corn.

It is a common practice to begin feeding green corn to hogs as soon as it is in the "roasting ear" stage, giving stalk and all. Green corn fed thus may be made very beneficial to their growth or very detrimental to their health. If fed sparingly at first, without decreasing the amount of old corn or the regular resparingly at first, without decreasing the amount of old corn or the regular ration for several weeks, the animals will eat just enough of the green corn to become accustomed to it. Then as the green corn turns it may be gradually increased and the amount of old corn fed decreased till by the time the new corn is ready to gather the hogs can be on a full feed of it.

Sudden changes from one diet to another, and especially from dry to green corn, derange the system and make it susceptible to disease. Many of the socalled attacks of hog cholera are but re-

sults of suddenly changing to new corn W. H. Underwood, a successful hog grower of Johnson County, Illinois, writ-

ing on this subject says:
"My plan has always been to begin feeding a little green stalk about August 1. It does not matter whether the corn is out of or just in silk, the hogs will eagerly devour the leaves and the larger part of the stalk. I usually begin by feeding one goodsized stalk to each hog. In no case do I decrease the amount of old corn; thus the animal does not eat the green stalk because he is compelled to, but because he wants

"After feeding one stalk a day to each hog for a week, I increase the aleach hog for a week, I when they each hog for a week, I increase the allowance to two stalks a day. When they cease eating the leaves and stalks I then feed them the snapped ear. By this time I have decreased their old ration somewhat, and when the new corn is ready to gather I give them a ration of half old and half new. By gradually increasing the amount of new and decreasing the amount of old corn, in a short time after the new crop is gathered I have the hogs on a full feed of it.

I have the hogs on a full feed of it.
"I had the value of this plan made quite plain to me several years ago. Cholera was raging in our neighborhood, and I dreaded the time when I must change from the old to the new corn, fearing that I could not maintain the rearing that I could not maintain the good health of my herd. In late July I began feeding a little green corn, although but little of it had begun to "shoot." I gradually increased the amount till the middle of August, when I began to decrease the quantity of old corn, and by the middle of September I had them on a full feed of new corn. had them on a full feed of new corn.

"I never saw a bunch of hogs do nicer, and though a neighbor across the lane lost nearly half his herd, mine showed no signs of disease. I do not claim that this gradual change from the old to the new corn was alone responsible for the good health of my herd. I kept every thing clean around the pens and used carbolic acid and slacked lime freely for disinfectants."

### Feeding Straw.

From sections where roughage will be scarce this winter, many inquirers are asking if wheat straw can be used in ways other than commonly fed, viz., in racks in the feed lot. The information here is given by W. A. G., an Indiana

Here is what to do to make the straw into a very nourishing and palatable food, and guarantees but little waste. Cut the straw quite fine, which can be Cut the straw quite fine, which can be done by hand or on a power cutter, and make it into what we used to call "chop." That is, we used to cut sheaf oats finely, and, after dampening, fine corn meal, middlings, and wheat bran were mixed thoroughly through the cut material for feeding. It was called "chop feed," and we recommend that now in trying to feed straw, it should be put through the same process. Use

enough of the mixed ground feeds named to the cut straw to cause the stock to eat it quite clean from the feed boxes or troughs. One-half a gallon to a bushel basket of cut straw makes a very rich feed, and often onehalf that amount is quite enough to cause most kinds of stock to eat the straw splendidly and leave but little to go under foot for bedding.

So far as real nutriment is concerned, we do not claim that straw of itself is of a high feeding quality, but we do claim that if it is fed as recommended, it can be made much superior to poor hay. It makes bulk, and all feeders of farm animals well know that that is a very important thing.

#### A Great Offer.

Times alone. Six months, \$2.60. Subscriptions may be new or renewals. Address, Subscription Dept., Kansas Farmer, Topeka, Kan.

#### Lightening Stave Silo.

Answering Fairview (Okla.) reader: The hoops should be so tightened when the silo is put up as to bring the staves snugly together and as the wind and sun snugly together and as the wind and sun dries out the staves, the hoops should again be tightened. If hoops are kept properly tightened, silo will not fall down, and if guy wires are kept taut and securely anchored, silo will not blow down. Where moisture in ensilage causes staves to expand there will be a slight denting at the edges and if expansion is too great, the staves will buckle, and hoops should be loosened on the first appearance of these conditions. the first appearance of these conditions.

Millers Object to Weeds or Dirt in Wheat.

The weed seed and dirt in wheat are giving Kansas millers trouble and it is probable that the next legislature will be asked to enact a law permitting the millers to deduct a certain weight from cars of wheat because of the weeds and dirt. The millers are planning a campaign to that end. They attempted to get the state grain grading commission to adopt a ruling granting that permission, but foiled failed.

George Hunter of Wellington, senator from Sumner county, and a miller, says the loss sustained by millers in Kansas every year because of the dirt and weed seed in wheat is enormous. He says there are instances where there will be 1,000 pounds of dirt and seeds in a car containing 1,000 bushels of wheat. The millers pay wheat prices for the dirt.

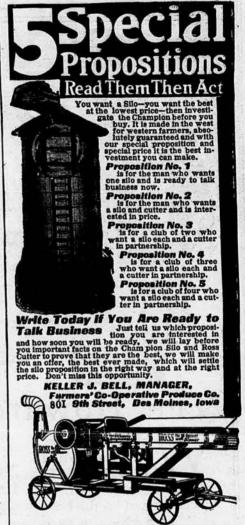
In former years the millers deducted 100 pounds from every car of wheat to cover the loss from seed and dirt. The Kansas courts held that this was illegal and the practice stopped. This year it is said that the Kansas wheat is unusually dirty and that the loss is going to be heavy. Before the wheat can be turned into flour it is necessary to screen out the dirt and weed seeds. This, in itself, is expensive, but the greatest expense is in paying wheat prices for seed and dirt when they can be used for nothing of

Mr. Hunter appeared before the grain grading commission when it met in Topeka and placed the millers' case before the members. The commission did not see its way clear to make any ruling extending authority to the millers to make deductions.

A Mississippi experiment showed that 10 pounds of warm separator skim milk produced as much gain when fed to calves as eight pounds of whole milk.

To give you an idea of the amount of money expended by Minnesota in boosting the dairy business and the extent of its organization in the interest of dairy, it is only necessary to say that a state dairy barn inspector has been appointed. He will inspect regarding sanitary conditions, facilities for keeping cows clean, methods of ventilation, etc. A Kansas legislator would fall dead if he were asked to support an appropriation for such a purpose.

A Minnesota paper urges the creameries of that state to accept from the farmer no sour cream, claiming that sour cream will not make the best butter, and that the production of cream should be discouraged if it cannot be delivered to the creamery sweet. There are advantages from a better quality standpoint in the use of absolutely sweet cream, but the Kansas farmer would have a hard time delivering sweet cream, and if delivery in such condition was obligatory there would be only little cream marketed in this state.





PARITO NUMBER

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REPAIR KIT Punctures permanently re-paired in two minutes, with the Cope Cinch Button Repair Plug—purerubber made over a soft metal core Works as shown at the left 1st. Cut puncture into a round hole; (special tool pro-vided.)

2nd. Spread hole into an oblong; (special spreader provided.)

3rd. Insert Cinch Button Plug, and 4th. Squeeze ogether with Cinch Pliers.

All done in a jiffy—a better patch than possible to be done the old way. No cement, no gas-oline, no sheet rubber needed. No need to jack up car when puncture is located.

Complete Kit With Dozen Plugs, \$5.00. Money refunded if not satisfactory.

Order one of these repair kits and insure your-self against loss of time on the road as well as the hard work of making a patch the old way. Cope Sales Co., Topeka, Kansas Ref. Merchants National Bank, Topeka

### PRODUCTION WITH PERMANENCY is The Agricultural Problem of Teday

Permanent fertility means maintaining he three necessary elements of plant

Your subsoil contains inexhaustable potash, Alfalfa supplies the nitrogen,

### YOU NEED PHOSPHOROUS

The only permanent and economical source of phosphorous is finely ground phosphate rock.

Write us. We lead in quality and price.

Federal Chemical Co. Ground Rocs Dept. Columbia, Tenn.



Save dealer's profits by buying at Manufacturer's prices. Any one can in-stall in any house with-out trouble. We also sell, DIRECT, all kinds of

PLUMBING GOODS
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Only finest goods shipped,
strictly under a MONEYBAGK GUARANTEE.
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Big, Free Book. It tells all. MO. WATER & S. S. Co.



### Howard Watch

Then the jeweler? shows you a Watch—note the printed ticket affixed to the box. It states the standard price of that watch.

More than 37,000 jewelers sell HOWARD Watches and the price of each grade is uniform everywhere.

That means that you and every other HOWARD purchaser ownsthe finest practical watch in the world on the same favorable terms.

It means the fullest possible service from the jeweler—his attention and advice as an expert in watches, not as a shrewd bargainer over the splitting of a half-dollar.

A HOWARD Watch is always worth what you pay for it.

Several months ago the demand for the higher-priced HOWARDS became so great that we had to discontinue the making of the models at \$35 and \$37.50.

The lowest-priced HOWARD that we are making now comes at \$40. It is a 17-jewel double roller cased in Crescent or Boss gold-filled. The 23-jewel HOWARD in a 14K solid gold case sells at \$150—there are several grades in between these prices.

Find the HOWARD jeweler in your town. When a man makes a permanent investment like the purchase of a HOWARD Watch he naturally wants to see what he is buying—he wants to get the dealer's expert advice. The HOWARD Watch is sold only by legitimate jewelers—and not every jeweler can sell you a HOWARD. The jeweler who can is a representative merchant—a good man to know.

Send us your name on a postal card and we will send you—FREE—our pamphlet—THE STORY OF EDWARD HOWARD AND THE FIRST AMERICAN WATCH. It is a chapter of History that every man and boy in this country should read.

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OLDEST LIGHTNING ROD HOUSE IN THE WORLD.

Makers of THE WORLD'S BEST LIGHTNING ROD This Rod has been longer in use, and has had a larger sale, than any other Rod that was ever made.

It is made of the Choicest Materials only, which are carefully selected and scientifically handled from the Ore to the finished Product.

It is the most Costly Rod made and commands the Highest Price.

It has been the Standard for more than half a Century. Hundreds of thousands in use Sixty-two years and Never Failed.

Like other superior articles it is imitated and counterfeited. There are numerous cheap imitations on the market, but the GENUINE is fully protected by our TRADE MARK.

Look for this on all packages, and for C B F R on the Coupling of every Rod Section.
RELIABLE AGENTS EVERYWHERE, FOR NAME AND ADDRESS LOOK FOR "OUR FLAG" IN LOCAL PAPERS.

Before you buy a Cream Separator See and try a I AND YOU WILL USE NO OTHER THE DE LAVAL SEPARATOR CO

Calf Cholera.

From a bulletin by the Wisconsin Experiment Station:

"When a calf comes into the world weak, puny and listless, and dies in a few hours, scouring, bawling and battling, and has sunken eyes and bloated belly soon after death, the disease by stockmen is called calf cholera. Many calves so affected are already living abortions. They have just enough life at birth to exist a few hours and show the symptoms described and come from the symptoms described and come from

the symptoms described and come from such cows that, during pregnancy, have been incompletely nourished upon timothy or swale hay, or coarse fodder, without an adequate supply of other foods to balance the ration; or similar calves may come from fat, flabby, cornstuffed, beef-bred cows.

"The trouble may be prevented by proper feeding of the pregnant cow, but there is no cure. A majority of such cases, however, are due to germ infection. Cows affected with contagious abortion may produce affected calves, the afterbirth and navel cord are invaled by the germs in such cases and the calf is improperly nourished in the womb. In other instances calf cholera is due to filth germs entering the calf's system filth germs entering the calf's system by ways of the raw navel cord stump at birth, or the mouth when the calf nurses from a manure-contaminated udder.

"Prevent infective cases by providing a clean, fresh bedded, disinfected, white-washed, sunlighted, ventilated pen for the new-born calf, and immediately wet its navel with a 1-500 solution of corrosive sublimate and repeat the applica-tion twice daily until the cord dries up, drops off and no spot remains. Also wash the hind parts of the cow and her udder with a two per cent solution of coal tar disinfectant before the calf is allowed to suck for the first time, and repeat the washing daily for at laest a week. Isolate affected calves. Bury or burn the dead,"

Inviting Oleo Consumption.

The following editorial from the Chi-cago Dairy Produce presents a phase of butter situation worth noting:

"If we could determine market quotations, we would be particularly careful

to keep prices on a basis that would encourage the largest possible consumption of butter until November 1.

"We would not give the oleo trade a chance to get in until the winter season opened, when, we would figure, it could not do the damage it does by getting an early start. early start

"One of the causes of heavy losses to butter holders last year was the fact that prices made it possible for the oleo dealers to turn consumers to their product early in the season. The latter were so successful last year that they reached the flush of oleo output in November and kept the early hold they got on the trade through the remainder of the year. the year.

"Last week, for the first time this season, we heard of retailers beginning to look to oleo makers for supplies. Consumption of butter has been immense and is so at the present time, and to have it fall off now will be an injury to be felt throughout the fall and winter sea-

When the price of butter gets to a price at which the consumer begins to buy oleo the consumption of butter at once is curtailed. A commodity is worth only that which the demand creates. In the case of butter extremely high prices are detrimental to the dairy industry in that the high prices for butter cut off the demand and consumption is cut off. The dairy farmers of the country can well afford, if economical means of produc-tion are employed, to produce butter at a price which would practically force oleo off the market and increase the consumption of butter three or four times over that of the present.

### Guarantee on Silo.

A southeast Kansas subscriber who is in the notion of building a silo inquires of any silo concern will sell a silo guaranteeing that the structure will not blow down. Kansas Farmer does not believe that any silo manufacturer will make such a guarantee. It does not appear reasonable that such a guarantee would be

The manufacturer ships all the manufacturer ships all the manufacturer ships all the manufacturer to build a silo, and the manufacturer and the silo. The farmer exects the structurer and the build and setting the silo securely rests will the farmer. The lumber dealer who say the lumber necessary to build a house of the lumber will not guarantee that the structurer will not guarantee that the structurer. barn will not guarantee that the streeture erected from his material will not have wrecked by the wind. The lumberman position is identical with that of the state of the stat manufacturer.

manufacturer.

The burden of erecting a silo seem against windstorms rests with the famer. The anchor posts should be well at by him. The anchor cables must hept taut by him and the same securely fastened to anchor posts. If the silo we lives in a locality of strong winds, the anchoring should be reinforced by him. The hoops must be kept tight by the farmer. Over these things the silo manufacturer has no control. The farmer should see that he gets plenty of anchor. should see that he gets plenty of anchor-ing material and then he must use that material properly. The very nature this silo transaction is such that the manufacturer cannot guarantee that sile will not be blown down.

Silos very rarely blow over. They blow in and then fall down. This is the result of not keeping hoops tight. Who is to blame if a barrel falls to pieces because hoops are not kept tight? Surely not the manufacturer. This is a case of the silb being properly erected and kept in proper condition.

Beauty Is as Beauty Does.

If we should take 10 cows of one of the pronounced beef breeds, and the same number of cows of one of the special dairy breeds, and place them next each other, one could readily see that they are of different conformations. There is a certain uniformity between the different animals of the same breed, but taken as a whole the conformation of the cows of one breed differs materially from that of the other breed.

But if we take the same 10 dairy cows and try to select the most typical dairy animal, by which I mean the best producer of butter-fat, we find a difficult task confronting us. While the 10 cows are very similar, we find many minor differences and in making a caption was differences, and in making a selection we are apt to be swayed by our own prejudices or the fashion of the hour.

I well recall a heifer of extreme beauty that took first as a calf at the National Dairy Show in 1908. Later when the heifer freshened she lost her good looks and proved an absolute failure as a producer. Undoubtedly many of you could mention other instances where cows have

proven disappointments at the pail.

A beautiful cow arouses our admiration and we are apt to be prejudiced in her favor, but just because we like her appearance it is not safe for us to say that therefore she must be a big producer of butter-fat.

In selecting cows for production we cannot depend on our likes and dislikes, or on cow signs. Fortunately we have an invention of comparatively recent years, which when applied with good judgment, furnishes us with a fairly accurate standand of measurement of performance. It is the invention of the Babcock test. From an address before Guernsey breed

Elements in Milk and Feeds.

Here is a table which every dal farmer should study. The table should be preserved for ready reference. It gives the nutrients required for the production of a pound of milk testing a given per cent of butterfat:

Milk testing Protein. hydrates. Fat. .018 .019 .018 3.5 per cent fat. . .042 4.0 per cent fat. . .045 4.5 per cent fat. . . 048 .019 5.0 per cent fat.. .050 .27 .020 5.5 per cent fat. . .053 .29 6.0 per cent fat.. .056

For daily maintenance:

Per 100 pounds

live weight ... .07 .7 .01

The next step is to determine how the feed stuffs are to be combined, approximately, to provide these nutrients, and to do this the following the lie given, showing the digestible

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utrients contained in a pound of the ifferent kinds of feed:

	Carbo-			
reed stuffs.	Protein.	hydrates	. Fat.	
a-montrates				
1000		.667	.043	
Barley meal	087	.656	.016	
at meal	.092	.478	.042	
Dat mear	000	.676	.011	
Rye meal	199	.500	.038	
Wheat shorts	000	.327	.070	
11 mag	490			
wheat Bran .	129	.401	.034	
duton feed	220	.524	.026	
ottonseed me	al574	.169	122	
Roughage, C	urea:			
odder corn .	025	.346	.012	
Corn stalks .	017	.828	.007	
Prairie hay	029	.413	.012	
Dat hay	043	464	.015	
oat nay	033	.485	.010	
Millet hay	002	.358	.017	
Clover hay	000			
Alfalfa hay .	110	.396	.012	
rom ensilage	009	.113	.007	
Wheat straw	004	.363	.004	
Porley straw	007	.412	.006	
Dat straw	012	.386	.008	
Ma maka 110	o of the	shove t	Foures	

To make use of the above figures and to apply the same to feeding operations is a simple matter to anoyne who understands multiplication of decimal fractions. When it is known what the nutritive elements are in a ound of milk containing a given per ent of fat, it is easy to find the quanity in any given number of pounds. And when the quantity of the elements required to maintain 100 pounds of equired to maintain 100 pounds of tow is given, it is easy to determine the quantity required to maintain a low of any number of hundred pounds. It has been determined by long and tareful research that the feeds given to the cow to produce the milk she is

giving, and to maintain her body, at he least cost, must contain the quanity and proportions of the nutritive elements found in the milk and in the body requirements. Now assume hat the cow will eat 20 pounds of hay and 8 pounds of meal or concentrates of some kind per day, which is about right for the average cow, and then find by trial computations how the feeds must be combined to supply nutritive elements in approximately the same quantity and proportion that the cow uses in her business.

The dairy cow affords the farmer the most profitable winter work in which be can engage. The one big advantage of dairying is that it can almost entirely be disposed of during the latter part of July and the month of August—the most uniavorable period. The fall fresh cow is the most profitable. Actual returns have long since proven this. Butterfat is highest in winter, the farmer's time is s highest in winter; the farmer's time is worth less; the summer is devoted to the harvest without interruption; the ow milks well all winter; goes onto grass in the early spring and is prac-tically fresh the second time.

### Grade or Pure-Bred Bull.

L. H., Fairview, Kas., has three pure-leen regisetred Holstein cows and two heifers to breed this fall, and is within casy reach of a grade Holstein bull, but can get the service of a pure-bred by driving eight miles. Shall he use the grade or pure-bred? By all means, the pure-bred. He can afford to drive twice the distance to the pure-bred bull. If the distance to the pure-bred bull. If the mothers are first-class cows and registered and the bull is registered, the offspring will be eligible to registry and salable at two times as much money as the grade calves sired by the grade

### Feed Ensilage, Sure.

A Winfield reader who makes butter and delivers to town customers, asks if the feeding of ensilage will give the butter a flavor to which her customers will object. No, and by all means pur-chase a silo. Your situation particularly demands a silo. Milk night and morning before feeding ensilage in the barn. Keep the ensilage out of the milk and you will have no trouble. Ensilage flavor does not come through the cow, but gets into the milk from the surroundings.

### One Bushel of Corn in Silo.

P. Clawson, a Clarke county, Ohio, farmer, writes an exchange thus: "Times have changed radically in a few years. The silo has become a prime factor on all dairy farms and a bushel of corn made into good sile a will produce 10 pounds into good silage will produce 10 pounds of butterfat if properly fed to a dairy cow. The Ohio Experiment Station finds that 2 gallons of skim milk fed to hogs in connection with corn meal gave an in connection with corn meal gave an increased gain of 1½ pounds of pork. Ten pounds of butterfat represents from 200 to 250 pounds of milk, or, say, 25 KANSAS FARMER



CORN THAT'S THE ENVY OF THE NORTHERN FARMER

35 to 50 bushels per acre. The winner of the school boys' corn growing contest in Harrison county raised 163.8 bushels per acre.

### Grops A Year From \$25 Land!

Corn, Millet, Grass, Fruits, and Vegetables Will Make Greater Annual Incomes in Harrison Co., Mississippi, Than the \$100 to \$200 Lands of the Middle West Could Ever Make Under the Most Scientific Management.

### South Central Mississippi-The Real Country for the Farmer

rolling, well watered, well drained, productive lands of the literas-sippl Farms Company combine the diversified agriculture of the Middle West with the very profitable truck and fruit farming of the Gulf Cons

"Buy 20 to 80 Acres" \$25.00 Per Acre One-fifth Down—the Balance in Four Annual Payments

No Interest; No Taxes; Every Farm Guaranteed

NO SWAMPS—NO MALARIA—NO HOT NIGHTS—NO DROUGHTS
MILD WINTERS—SUMMERS COOLED BY GULF BREEZE

To begin with, we are not land men. Our business is lumbering. For years and years we have been purchasing timber acreage without a thought of any return except from the trees upon it.

We own 45,000 acres of splendid Mississippi land located in Harrison County, 35 miles north of Guifport, at an elevation of some 300 feet above sea level. It is as healthy as any region in America—a pine country, sweet and fragrant—wonderful climate and almost five feet of rainfall yearly, evenly distributed.

Our district is fairly well settled. We own our own raffered no that adequate transportation is provided.

The city of Wiggins has nearly 2,000 people. Our new towns of Powers and Clarence lie just beyond. Wiggins is prosperous, has electric lights, city water works, churches, common schools and high school, telephone, and stores are up-to-date.

At Wiggins we own an extensive saw mill from which you

ap-to-date.

At Wisgins we own an extensive saw mill from which you can buy your lumber at low rates. We are only 34 hours from northern markets by express. There is already a live, prosperous truck growers association of 75 members. Several hundred carloads of produce are shipped each year.

We started a demonstration farm under the government five years ago and we are now operating a new demonstra-tion farm of 480 acres, with extensive buildings, where we are growing with profit a great variety of crops. The growing crops of corn, alfalfa, millet, cane, cowpers,

Ask any of the following banks and bankers if we can and will do what we promise:

Geo. M. Reynolds, Pres. CentinentalCommercial Bank of Chicago, 2nd
largest bank in America.

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Peoples Bank, Wiggins, Miss. We help our farmers become successful. We build roads, schools, churches and in some cases build houses, fence and clear the land ready for the plow. You can bring your problems to our experts in charge of Demonstration Farm. MISSISSIPPI FARMS CO., CHICAGO, ILL.

velvet beans, clover, potatoes, tomatoes, all kinds of vegetables, fruits, figs, oranges, grapes, strawberries, and pecans,
are a revelation to every visitor to our farms. We have
registered catile, hogs and poulity. Today we have the
largest citrus nursery in Mississippi.

All this is being done for the interest of our farmers. We
want our people to succeed and are sparing no expense, You
have full advantage of this demonstration farm free. You
get our expert's advice free—you can ask any question you
please, and you are taught how to handle any drep with
which you are unfamiliar.

Our lands are gently rolling, thereby giving excellent
drainage. The soft is a black sandy loam with a clay
sub-soil.

Here upon our land is the farmer's future; here is his fortense. We want the right type of settler. We are in no
harry about the money but we are for the man. We guarantee our land and you can go upon it as soon as you have
made your first payment.

Remember you are dealing with responsible people. We
have made honesty count. We have given our settlers more
help than most land companies would think the -ettler is
entitled to, but we have not lost by it. To the man who
has little dapital and an earnest dealire to own a farm, we
present a splendid opportunity,
Full details concerning the country, climate, soil,
results from actual settlers, etc., are contained in our booklet
and which we will gladly send you if you are interested.

Mississippi Farms Co., 1162 Commercial Bank Bldg., Chicago. Please let me know mere about your farm proposition.

gallons, or a little over 16 pounds of pork, all from 1 bushel of corn. Where a dairy cow is given all the good en-silage and prime alfalfa hay she will eat and cared for other ways intelligently, she will produce milk at a price that is hard to equal. If she will not, send her to the shambles and raise one that will.

### Forcing Heifer Dry.

Answering J. W. H., Dillon, Kan.: Do not force the heifer dry. Take all feed except pasture from her, let her give what milk she will and milk her clean every night and morning. It is preferable to have a cow dry a month before calving, but some cows can be forced dry, as is likely in the case of your heifer, only at great risk of permanent injury, and in such cases continue milking. Your heifer shows wonderful persistency as a milker, and this should be cultivated. In all probability she will not give as much milk immediately after freshening as if she had been dry for a period. Do not breed her again for six or seven months. This will prolong the milking period and most likely will dry off more easily. The cow is entitled to a rest, during which time she will recuperate. The calf will have greater strength when born.

### September Farmers' Institutes.

Kansas has more organized farmers' institutes and more members than any other state. More than 200 institutes will hold meetings from September 18 to December 21, and then another 200 meetings will be held in January and February. It is now about time to begin dating the fall meetings, and Di-rector Miller of the extension department of the Kansas State Agricultural College will within the next two weeks date all meetings to be held from September 18 to October 14—probably two circuits. That is a good time for communities where it is desired to have an additional tools. exhibit of produce and stock. The col-lege will send two speakers to each institute. A local program must also be pre-pared. Officers who want meetings on this first circuit are asked to notify the college at once. Preference will be given applications in order. Farmers and others living in communities not now having institute organizations should write Director J. H. Miller at once, asking for dates and speakers. Probably 60 more institutes will be organized this year.

# **Kansas State Fair TOPEKA**

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

### EVERY DAY A BIG

Large Agricultural Department. Hundreds of Horses, Cattle, Swine and 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 ATTRACTIONS. A WEEK OF INSTRUCTION AND RECREATION — SHOULD BE EN-JOYED BY EVERY KANSAS CITIZEN. SEMI-CENTENNIAL CELEBRATION, TOPEKA, SAME DATES.

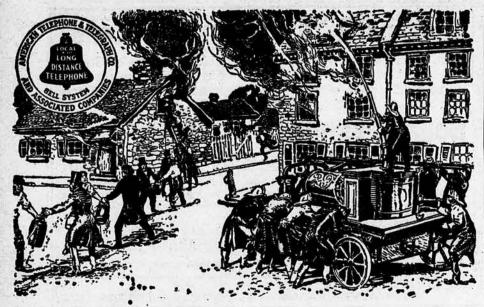
T. A. BORMAN. Pres.

H. L. COOK, Sec'y

ENTRIES ST. JOSEPH LIVE **CLOSE** STOCK SHOW AUGUST 31 FOR THE **NIGHT HORSE SHOW** 

**SEPTEMBER 15** Send your entries now and you will be in time, otherwise you might forget and be too late.

The Biggest Week in the History of St. Joseph



### Fire Fighting and Telephoning

Both Need Team Work, Modern Tools and an Ever Ready Plant, Everywhere

Twenty men with twenty buckets can put out a small fire if each man works by himself.

If twenty men form a line and pass the buckets from hand to hand, they can put out a larger fire. But the same twenty men on the brakes of a "hand tub" can force a con-tinuous stream of water through a pipe so fast that the bucket brigade seems futile by comparison.

The modern firefighter has gone away beyond the "hand tub." Mechanics build a steam fire engine, miners dig coal to feed it, workmen build reservoirs and lay pipes so that each nozzleman and engineer is worth a score of the old-fashioned firefighters.

The big tasks of today require not only team work, but also modern tools and a vast system of supply and distribution.

The Bell telephone system is an example of co-operation between 75,000 stockholders, 120,000 employees and six million subscribers.

But to team work is added an up-to-date plant. Years of time and hundreds of millions of money have been put into the tools of the trade; into the building of a nation-wide network of lines, into the training of men and the working out of methods. The result is the Bell system of today—a union of men, money and machinery, to provide universal telephone service for ninety million people.

AMERICAN TELEPHONE AND TELEGRAPH COMPANY AND ASSOCIATED COMPANIES

One Policy

One System

Universal Service



#### BURNED FARM DRAIN

Write for Free Booklet and Reduced Prices HUMBOLDT BRICK MFG. CO., **HUMBOLDT KANSAS**  OULTRY

Reports still come in of chicks and fowls affected with leg weakness. We have already advised feeding less corn and more meat and bone meal.

Nine-tenths of the poultry diseases can be traced directly to one of the following causes: Filthy houses, impure water, lice, improper feeding, poorly ventilated houses, drafts and absence of grit. These causes are all preventable by the poultry-man if he gives his stock proper atten-

The obvious remedy for overcrowded quarters is to make more room or reduce the size of the flock. If you have pure-bred stock, put a card in Kansas Farmer advertising the same for sale. If you have common chickens, send the surplus to market.

The grand secret of good poultry and fine eggs lies in the generous expenditure of both care and feed. The care con-sists of clean quarters, ample size for the numbers kept, quiet and comfort; food sufficient, varied and at regular intervals, together with runs that afford vegetable products.

No breed of fowls can fill all requirements, nor is it necessary to be so. There are certain breeds of fowls which will probably suit the convenience and circumstances of the average farmer better than others, but that does not meet the case fully, and it therefore becomes necessary for each person who engages in the busi-ness, for pleasure or profit, or both, to secure such fowls as will best meet his requirements and conveniences. There is more in the care and feeding of the fowls than in the breed.

Poultry on the farm is the right thing in the right place. It isn't necessary to rush the business to the exclusion of other branches, any more than it is reasonable to neglect this department of agricultural industry altogether. A happy medium should be struck. The stock on hand should be culled down to productiveness and then enhanced by the infusion of better blood. Houses should be made more substantial as to warmth and cleanliness, and provision should be made for fall and winter work. It's as sure as shooting that poultry on the farm is profitable.

Rats do a great amount of damage to poultry each year and are around most poultry houses. Inasmuch as they do their damage during the nighttime, their depredations are not noticed as much as if done during the day. All the poultryman knows is that his flock of chicks aware of the cause of the trouble till the rats are caught in the act. If certain baits in rat traps have failed, sunflower seeds might be tried, failed, sunflower seeds might be tried, for they are said to draw the rats with an irresistible force to the traps. This discovery was found by Capt. Weedin, in charge of the animals at the Washington Zoo. The building is infested by rats, and how to get rid of them was a perplexing question. Traps were set, but nothing would tempt the rodents to enter. In a storeroom drawer was placed a quantity of sunflower seeds. placed a quantity of sunflower seeds, used as food for some of the birds. Into this drawer the rats gnawed their way, a fact which led the Captain to experiment with the seed as bait in the trap. The result was that the rats couldn't be kept out. A trap which appears crowded with six or eight rats was found some mornings to contain 15. So, if pestered with rats, try sunflower seeds as bait.

If people engaging in the poultry busi-ess would apply strict poultry measures to the business, there would be better success. A business with a system about it generally stands on its own bottom. We know an instance where care and forethought succeeded above everything else, and a young, industrious man was at the bottom of it. He was careful of his stock, their home and their feed. He marketed always at the right time and made money while many others were losing. Just the other day we heard that the commission man pays him 10 per cent more money than anyone else, as he always sends his goods to market in a prime and attractive style. Ap-

pearances are everything and when a man shows taste he is generally paid for it. Nothing tells so badly as poorly put up goods. Eggs should be sent to maras fresh as possible. Flesh should have a tempting appearant, plump and clean. There should be a careful catering to the wants of the customers. Anything slipshod counts against the business. Accurate accounts should be kept, economy should be practiced and the art of omy shou' be practiced and the art of marketing should be studied. In short, it should be business from the word "go."

Late-Hatched Chicks.

The late-hatched chicks are now feathering very rapidly, and the best of care must be given them, for this period is very hard on the system and unless they are kept scrupulously free from lice, the drain upon their systems from this cause, the growing of feathers and the effect of the hot weather, soon reduces them to a peeper or runt, from which they never recover. Although they may appear hardy and well grown later on, the effect of having passed through this trying time will make a difference of from the helf to one power in the weight of one-half to one pound in the weight of the specimen, which it never regains. Whenever chicks grow their flight feathers so rapidly as to cause them to ex-tend beyond the length of their bodies with an inclination to droop, then there is a tendency to stuntiness. Be particular to determine positively that the failure of the body to grow in proportion to flight feathers is not due to the chicks, the mothering hers or their quarters being lousy, which would cause this condition. tion; if not, you can ascribe it to an inclination to indigestion, caused by improper feeding. A partial correction of this trouble is in feeding. No corn in any form for a week or 10 days, less whole grain more bread and milk meet whole grain, more bread and milk, meat scraps, rolled oats and bran slightly mois-tened with milk, and never feeding them as much as they want at any one time, but feed oftener and make them want for more all the time. Then pull the droop-ing flight feathers out of the wings. Mind you, the flight feathers only, not secondaries, which will be a great assistance in allowing the nourishment necessary to continue the growth of these already overgrown flight feathers, to go to the upbuilding of the impoverished system. By the time these feathers begin to grow again, the vitality of the chick will be much improved and the possibility of its becoming a worthless runt very much lessened.

### Experimental Work.

Experimental Work.

To have eggs of fine flavor the hens should be fed on clean food. Fowls fed on putrid meat, decayed or decaying animal substances, will lay eggs not fit to eat. Proof of how the food affects the egg may be had by feeding a number of hens on onions for a certain period. The eggs will become so strongly tainted with the onion flavor as to be unpalatable. Where the farmer allows his fowls unlimited range, it may be said that it is impossible to control their food, but under no circumstances should the fowls be no circumstances should the fowls be allowed access to filthy substances. Even the practice of allowing the hens to scratch in the dunghill, as some of the old-school farmers think is necessary for the production of eggs, is not to be recommended. Where fowls are kept for the purpose of money making, th be found systematically arranged in certain numbers in pens and their actions under control. Good care, clean food and clean quarters will be found hand in hand. System and intelligence are as necessary in the management of poultry as in other lines of business. as in other lines of business.

Should the production of dark or brown colored shells be desired for a particular market, either of the following breeds will be found to lay them, viz: Cochins, Brahmas, Wyandottes, Plymouth Rocks or Langshans. Where eggs with white shells are wished, they will be produced by Lordon and the state of the stat by Leghorns, Minorcas and Andalusians.

Experience with 12 of the leading varieties so far has proved that the Plymouth Rocks are the most rapid flesh for ners, making a food market chicken between 3 and 4 months of age. All who try will find the result, provided the young bird is properly cared for and pushed from the 11,

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Ideal Overalls will save
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time of hatching. The Wyandottes mature rapidly, making a round, plump market chicken at from 4 to 5 months of age. Brahmas do not take on flesh quickly while growing, but after 7 or 8 months make a fine, large bird. Either of the two first named will be found to make early chickens for market.—Report Canearly chickens for market.—Report Can-ada Experiment Farm.

The Wonders of an Egg.

A French scientist who removed the shell on either side of an egg, without injuring the membrane, in patches about the size of the diameter of a pea, and snugly fitted the openings with bits of glass, gives the following report of the wonderful experiment:

I placed the egg with the glass bull's-eyes in an incubator, run by clockwork and revolving once each hour, so that I had the pleasure of looking through and watching the change upon the inside at the end of each 60 minutes. No changes were noticeable until after the end of the twelfth hour, when some of the lineaments of the head and body of the chick made their appearance. The heart ap-peared to beat at the end of the twenty-fourth hour, and in 48 hours two vessels of blood were distinguishable, the pulsaof blood were distinguishable, the pulsations being quite visible. At the fiftieth hour an auricle of the heart appeared, much resembling a lace or noose folded down upon itself. At the end of 70 hours we distinguished wings and two pupae for the brain, one for the bill, and two others for the fore part and hind part of the head. The liver appeared at the end of the fifth day. At the end of 131 hours the first voluntary motion was observed. served.

At the end of 138 hours the lungs and stomach had become visible, and four hours later the intestines, the loins and the upper mandible could be distinguished. The slimy matter of the brain began to take form and become more approach at the beginning of the sounds. compact at the beginning of the seventh day. At the 190th hour the bill first opened and flesh began to appear on the breast. At the 196th hour the sternum appeared. At the 210th hour the ribs had begun to put out from the back; the bill was quite visible, as was also the gall bladder. At the beginning of the 236th hour the bill ad become green, and it is evident that the chick could have moved had it been taken from the shell. Four had it been taken from the shell. Four hours more and feathers had commenced to shoot out and the skull to become gristly. At the 260th hour the eyes appeared and a few hours later the ribs were perfect. At the 331st hour the spleen drew up to the stomach and the lungs to the chest.

When the incubator had turned the egg 335 times the bill was frequently opengasping for breath. When 451 hours had elapsed we heard the first cry of the little imprisoned biped. From that time forward he grew rapidly, and came out a full-fledged chick at the proper time.

> Kansas Crop Report (Continued from page 4.)

the state's average annual acreage. Special pains were taken to verify the corn acreage in view of the fact that the United States Department of Agriculture has reported Kansas as planting more than 9,000,000 acres of corn.

Generally the corn prospect is not flat-tering, the average of its condition being but 43.3 for the state. Smith reports the highest average (87) of any county. Don-iphan is next with 83, although some of its neighbors north of the Kansas river are among those with the least promising prospects. The vitality of much corn was so impaired by unusual weather conditions and belated rains that recent rainfall has not, in some localities, brought the revival that was hoped for, and con-siderable will produce little or no grain.

Reports from farmers in the same counties often vary widely, suggesting lack of uniform conditions even in adjacent neighborhoods. One field may promise fairly, while others near by may be of little worth.

Rains of from 1 to 10 inches that within the past 10 days have visited nearly every section of the state, with the showery conditions still prevailing, are working marvelous changes and improvement in the general situation. In some localities the rains came too late to assure the corn crop, but will be of inestimable value for all forage, in supplying abundant water and by insuring fine fall pasturage for live stock. Likewise the ground generally is in excellent condition for fall plowing and seeding, and this work will now be energetically pushed in all quarters.

### PURE BRED COCKEREL FREE

### A WONDERFUL OPPORTUNITY TO BREED UP YOUR POULTRY



Early this spring Kansas Farmer offered to send a setting of eggs from pure-bred poultry, any kind desired, for a little work in securing subscripfor a little work in securing subscriptions. This plan proved so popular that we have decided to give any reader of Kansas Farmer who desires to secure a pure-bred cockerel an opportunity to do so without a cent of cost to them. We will make a proposition that will enable you to get a pen of pure-bred birds if you wish it.

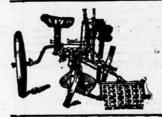
Now, this is a straight-out, fair, square offer and we positively guarantee to give anyone answering this advertisement the opportunity of a lifetime to get a start in pure-bred

lifetime to get a start in pure-bred

poultry. A boy or girl can do the work necessary.

Be the first one in your neighborhood to get in on a good thing.

Address FREE POULTRY DEPT., KANSAS FARMER, Topeka, Kan.



BETTER CROPS WITHOUT EXTRA LABOR
The Wilberg Plow Attachment will make a proper seed
bed while you plow with only fifty pounds extra draft
It packs the furrow the moment it is turned, thereby
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This attachment is sold on 10 days free trial.
It will increase your yield from two to five bushels per
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WHITE PLYMOUTH ROCKS BEST ALL PURPOSE 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 in a year for eight pullets is the record, which has never been approached by any other variety. I have bred W. P. Rocks exclusively for 20 years and have some fine specimens of the breed. I sell eggs at "live and let live" prices, \$2 per 15, \$5 per 45 and I prepay expressage to any express office in the United States.

THOMAS OWEN.

TOPEKA, KAN.

Farm Power. (Continued from page 6)

complish in pulling power, compared with horses. A manufacturer explains in his literature that the pulley power of this size engine, running with a belt, equals work of 45 horses. Its pulling power, when moving itself, is equal to the average pull of 22 to 25 good young horses, working at a temperature from 50 to 70 degrees. When the higher temperatures of harvest time arrive the horse cannot pull as continuously as in spring cannot pull as continuously as in spring or fall. Flies, dust and heat tease both horses and mules. So, then, working power drops fast under a hot sun. In contrast, the engine cares nothing for flies, heat or dust. It never relaxes its speed, but works 24 hours at a stretch, if required.

The claim is sometimes made that the automobilists are the only fellows agitating country road improvement. President Hooper of the National Automobile Association meets the assertion by this pertinent comment: "As the most insistent users of the road, it is our duty to aid in highway improvement to the fullest extent of our ability, and we look upon the work as a simple duty which is expected of us. It is plainly apparent that we consider the motor-driven vehicle as essential to the man in the country as it is to the urban resident; in fact, we look forward to an early period when every farm will have an automobile, just as it must have farm machinery and other equipment to carry on its work. To journey quickly from farm to town and home is desirable to the man in the country, for time is something in which he, too, can economize. It certainly is also essential that the road shall be properly constructed and efficiently maintained. We ask little or none of the credit for securing improved highways, but our 39 state bodies and 300 clubs and thousands of members do not desire to be considered backward in meeting the duty which, by common consent, has devolved upon them."

W. O. Hotchkiss of Wisconsin tells how one farmer of that state became a believer in good roads. This man had a thousand bushels of potatoes in the cellar, which he was holding for a good price. An offer of 92 cents came in

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And Only One Dollar and Fifteen Cents For Oil and Repairs

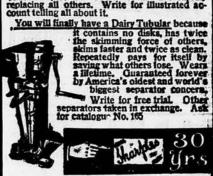
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Size of machine, No. 4 Tubular
Capacity per hour, 500 pounds
Total pounds separated, 2,600,000
Total turns of crank, 14,352,000
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Total cost of repairs, 40 cents
Time used in oiling, 15 minutes
Time repairing and adjusting, 20 minutes
This wonderful record was made by a regular
Tabular—just like Tubulars that are rapidly
replacing all others. Write for illustrated account telling all about it.
You will finally have a Dairy Tubular because



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March, but, as he expressed it, the roads were so bad that the only way he could get to town was by telephone. Of course the roads finally dried out, and then he secured 30 cents a bushel for his potatoes. Hence, rightly, he assumed that bad roads had cost him something over \$600, and he likewise figured that if all the main roads in the county had been improved, his share would have been as much as the loss on his crop of potatoes. Mr. Hotchkiss sums up the situation very coneisely in this sentence: "Good roads benefit us at every turn, and bad roads are an extravagance that no people can afford.".

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# SCHOOLS AND COLLEGES HOME CIRCLE



A SONNET.

Dashed Off Whilst Thinking About How
Pa Acts When Dressing Up to
Go to Church.

Whilst pa and ma is dressin' up to go To church somewhere, so I've heard ma

The neighbor women, pa tears 'round pell-mell And turns things upside down, and wants

to know Who hid his clothes, and makes ma stop

and show Him where to find them. Ma she know'st full well

They're where he's kept them since he Cam'st to dwell In our house; that's been twenty years

And when ma's donest her level best

to try
To help pa so he wilt not fuss and fret,
And found his clothes, shoes, collar, cuffs and tie,

And there sin't nothin' more for her

to get,

looks at her and with an awful sigh
Says: "Thunderation, ain't you ready
yet?"

Nixon Waterman in The Fra. -Nixon Waterman in The Fra.

Gather ye rosebuds while ye may, Old time is still a-flying; And this same flower that smiles today Tomorrow will be dying. —Herrick.

If fruits or vegetables become scorched in cooking, set the kettle into a dish of cold water and the flavor will be unim-

A good way to deodorize kitchen utensils in which fish, onions and the like have been cooked is as follows: Wash the kettle clean, dry it and then invert it over a handful of burning paper. When the paper is consumed scald the vessel, dry it, and it will be sweet.

It is sometimes difficult to cut away the material under lace insertion without one way of overcoming this difficulty. is to cut a strip of pasteboard five or six inches long and the width to slip between the lace and material. Round off the corners of one end so that they won't catch in the lace. This will make the work easier and safer.

The girl who wishes to be pretty must remember that first of all she must be well groomed. That is, she must pay at-tention to the details of dress, as they go far to make a girl attractive. No matter how beautiful your hair is, don't think that it is unnecessary to have it neatly and becomingly combed. Keep the teeth well brushed and wage war on the blackheads which are so disfiguring to a complexion. Also give the finger nails careful attention. They should be oval shaped and with the "half-moon" at the base of the nails fully developed, and keep them trimmed to conform with the shape of the finger, neither too pointed nor too square. Just a slight edge of white should show beyond the pink portion. Unless one is willing to spend the time doing these first essentials, she shouldn't sigh for good looks.

The Age of the Fork.

Knives and spoons are of very great antiquity, but the use of forks is really, comparatively speaking, modern; and, indispensable as these adjuncts of the table may now appear, they had not become at all general at the beginning of the eighteenth century.

Other Timely Uses for Fresh Rose Leaves. Other timely uses for fresh rose leaves are for the flavoring of cakes and puddings, for the finger bowl, for scattering carelessly over the tablecloth at rose luncheons or teas, for throwing in front of brides or crowning the sweet girl graduates. Simply dried, with salt enough to preserve them, they make a delightfully fragrant pillow for the baby's crib or carriage.

### Margueritas.

Boil I cup of sugar and 1/2 cup of water until it threads. Remove to back of range and drop in 5 marshmallows cut into small pieces. Let stand to dissolve and then pour gradually onto the

well beaten whites of 2 eggs. Add ? well beaten whites of 2 eggs. Add 2 tablespoonfuls of grated cocoanut and 2 teaspoonful of vanila. When partially cooled add 1 cup of chopped nuts. Spread on salted crackers and brown slightly in the oven.

All Through a Hyphen.

A certain member of congress was to make a speech near Chicago, but was unable to do so because the heavy rains had destroyed a portion of the branch railway. Accordingly, he sent this telegram: "Cannot come. Wash-out on line." In a few hours the reply came: "Never mind. Come anyway. Borrow & Shirt."—Every Woman's Magazine.

Rose Jelly.

Charming decorative pieces are made of the transparent gelatine, jelly and wild rose, or rose petals. Make a plain lemon jelly, flavoring with rose, Pour a very thin layer of the liquid jelly into individual round oval molds and let it harden. Then lay upon it a single briar rose or a grouping of rose petals, and fill the mold with the liquid jelly. Set away for several hours in the ice chest to harden. When turned out the pink rose gleaming through the thin cover of transparent jelly gives a beautiful effect.

Orris Root.
Orris root, which is so important an ingredient in violet powder, is grown in Italy, near Vallambrosa. There, an the sunny side of the mountains, you will see under arbors covered with grape vines and between the olive trees, the iris dalmatica, from the roots of which the orris powder is made. For three years the plants are left undisturbed. Then they are taken out of the turbed. Then they are taken out of the ground and the root is stripped of the tuberous part, the small piece that is left being planted and left for another three years. The tubers are soaked in water and peeled. Then they are dried in the sun, on trays, losing two-thirds of their weight. It is a common sight to see whole families of Italians sitting under the arbor peeling the roots.—Erery Woman's Magazine. ery Woman's Magazine.

To Prepare a Rose Jar.
At this season of the year the following rose recipes may be of interest to

Strip off the rose leaves and dry on papers spread on the floor in an unused room. When you have a half peck fire dry leaves, take a large china or glass bowl and strew a handful of table so on the bottom. Add three or four handfuls of the street or four handfuls. fuls of the leaves, follow with more salt and more leaves until all the leaves are used. Have the last layer of salt Let this remain five days, stirring and

turning twice a day.

When they seem moist add three ounces bruised allspice and two ounces bruised stick cinnamon. This forms the body of the stock. Let this remain a week or more, turning daily from top to bottom. Then it should be ready for the permanent jar, which should have a double lid. Mix together one ounce each bruised cinnamon and cloves, two ounces ginger root sliced thin, one-half ounce bruised anise seed, one-half pound dried lavender flowers, two ounces dried orange and lemon peel, ten grains of musk and whatever you have in the way of dried violets, clove pinks, tube roses, orange blossoms, lemon verbens and bergamont.

A little dried rosemary is also an addititude of the stock of t turning twice a day.

A little dried rosemary is also an addition. tion. Now pack the rose leaves in jars in layers, putting the fragrant mixture of spices between each layer. When filled, pour in a liquid mixture, made from a pint of Florida water, the same amount magnolia water and a little of the essential oils of such perfumes arose geranium, violet, jessamine or any the essential oils of such perfumes as rose geranium, violet, jessamine or any thing else you desire. This is not necessary, but is a great addition. Shake and stir once a week, open daily for a few months, taking care not to leave it uncovered any length of time.

Rose leaves and other fragrant flowers

Rose leaves and other fragrant flower Mose leaves and other fragrant flowers may be added through the scason, but salt must be used also, as in the beginning. This pot-pourri is expensive in the making, but it will retain its delicate making, but it will retain its delicate fragrance for a quarter of a century. Your druggist will quote you prices of the oils, and you get the amount roundesire.



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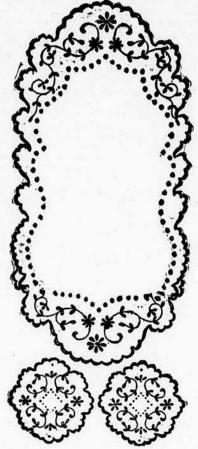
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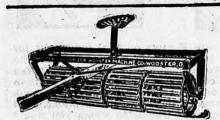
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Belleview Grange Picnics at Lawrence.

The annual picnic of Belleview Grange, Eudora, Kan., was held August 1 in Woodlawn Park, Lawrence. The park was furnished free by the park associ-ation and Lawrence merchants did everything to help the grangers pass the day pleasantly. The picnic was largely

C. M. Freeman, secretary of the National Grange, was the principal speaker. His talk was along the line of the Grange work and higher education. A. P. Reardon, lecturer Kansas State Grange, made a good talk. Also O. F. Whitney of Topeka, and Mrs. George Black, wife of the master of the State Grange, were with us.

A number of prizes were offered by the merchants of Lawrence for the best displays of stock and farm products. The best team of draft horses and best team of draft mules each got a set of leather collars valued at \$7. The best driving team and best single driver each got \$5 cash. There were a number of similar prizes on colts, grain, potatoes and fruit.

The Lawrence Military Band furnished the music. The grangers liberally patronized the roller coaster, merry-go-round and roller skating rink. In the evening dancing in the pavilion was the chief amusement until 10:30 p. m., when it began raining again, and thus closed the Grange picnic for 1911.—H. J. Landon, Belleview Grange No. 1453, Eudora, Kan.

#### Suggestions for Grangers.

That the interest depends largely upon the attendance of the members is a recognized fact, and it is equally true that a large attendance can generally be secured only by providing interesting programs. The responsibility of providing an interesting program rests not wholly with the lecturer, but upon the presence and mental attitude of the members. They must be made to feel that the meeting is for them as well as of them. meeting is for them as well as of them, and must be impressed with the idea that he who contributes most from his own mental storehouse is the one who receives most in return. In this, as in every other respect, one must not expect to receive something for nothing.

Let us begin with the officers. If each officer would make a special effort to be in his or her place at the appointed hour, that one fact would render the office of worthy master a more agreeable one. How discouraging to him to find, when the hour comes for opening the meeting, that only a few of the officers are present. He must either delay the meeting or fill the offices pro tem, either of which causes more or less confusion. If he chooses the former, the lecturer's program must necessarily be cut short, and there is then lacking among the mem-bers the ease of mind and power to concentrate attention necessary to grasp the new and beautiful thoughts sure to be presented and to enter into a hearty discussion of the same, a result always so harisah ad

On the other hand, filling the offices pro tem brings its own difficulties, particularly if there be initiation, as important dutes are then thrust upon members quite unfamiliar with them.

Instead, if when calling the meeting to order, he finds the officers all in their places, with a fair proportion of the members, and all on the qui vive for something of value to take home with them, what an inspiration to the master, the lecturer and to those who are to participate in the program.

Another desirable feature is added when each officer has committed to memory his part in the initiation. By so doing, he not only adds much to the beauty and impressiveness of the ceremony, but also commands greater respect for his own mental ability.

A word to the program committee. It seems advisable to consult with those whose names are to be placed on the program and ascertain if the topics assigned are satisfactory, or if the brother or sister feels that greater justice could be done to some other topic. They should be allowed a little choice, as it would be, of course, unreasonable to expect one to speak at length upon a topic with which he is not familiar.

A little more enthusiasm and responsiveness on the part of members is much to be desired, but the method of arousing it depends largely upon the individ-ual. From personal observation I have come to the conclusion that the hardworking, practical farmer is often deterred from presenting his views of giving others the benefit of his valuable experiences by the one fact that he fears his inability to clothe his thoughts in the elegant language of his more tal-ented brethren. Strive to lessen the feel-ing, discourage any tendency to criticise the speaker's language and encourage all to feel it is the thought presented to which attention should be directed.

Establish the habit of calling on all, the newer and younger members as well as the older ones, and when they see this is customary, more and more will they be prepared to express their views. The mere statement that he agrees with the previous speaker should not be accepted, but by questioning, lead him to emphasize the points in which he agrees, which will also bringout the points of disagreement. Adverse criticism is just as beneficial as the favorable sort.

Giving the newer members a place on one of the less important committees now and then gives them a feeling of responsibility and gradually prepares them for the time so surely coming when the heavier duties must devolve upon them, as the older and more experienced onescannot always remain with us. Besides, youth naturally brings vitality and animation to any organization.

Besides adhering strictly to the program, would it not be advisable to intro-duce some unexpected feature, as a "surprise"? Of course, we must not lose sight of the fact that information and instruction are our primary objects, but a few moments devoted solely to enter-tainment will not be misspent.

Finally, a little more sociability and good fellowship displayed by the older members toward the newer ones will go far toward drawing them to the next meeting, and will aid in removing the feeling of strangeness, I may say, awkwardness, so common to the newly initiated, and often so hard to overcome. There is a tendency in all gatherings of individuals to resolve themselves cliques, to the exclusion of the latest comers. This should be avoided and the members should form, instead, a commit-tee of the whole to welcome the newcomer and try to secure his regular attend-

It is scarcely to be expected that one can be depended upon to express his views freely until he feels that his listeners are his friends, ready to encourage him in his efforts and to overlook what-ever grammatical errors there may be in his remarks.

Mutual cordiality inspires greater self-possession, which in turn is conducive to enthusiasm, while a proper amount of enthusiasm insures a pleasant and profitable session.—Loretta Shepard.

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N. O. TATE, HOWARD, ELK COUNTY, as, bought and optioned 53 fine, impred farms during the severe droguht, d now corn will make 75 bushels to the re, and all are for sale cheap. Write m for particulars.

O ACRES NEAR ROCKY-FORD.

th state of cultivation; earns \$4,000
llars a year. Good water right, phone,
liy mail. To close partnership will sell

tap. Reasonable cash payment. Bal.

y payments. C. L. Umstead, Rocky
tag Colo. rd, Colo.

MILLS FOR SALE—PUBLIC AUCTION; account of failing health, I will seil at tion on Sept. 7, 1911, at Offerle, Kan., my at mill and coal business; this is making per cent on the investment; my terms e one-half cash, balance time. For furinformation, address J. H. Kimes, mer, or Thos. Darcey, Auct.

isi-ACRE FARM, 2½ MILES FROM wh. in Butler Co., Kan.; 65 a. in cult., 71 sure. 14 meadow; small orchard, plenty of all fruit; 8-room house, good condition. il built, arch cave, barn 30x40 with hay ow; granary, hen house, buggy shed; well seed with wire and hedge; for quick sale \$5,000; mtg. \$1,000. H. H. Bersie, Eldodo, Kan.

BIG CROPS THIS YEAR; COME SEE For this year; Come see for yoursel; locate in a sure crop country in mild, healthful climate; our big offer it season is choice railroad land at \$10 are on easy terms; 40,000 acres to select in in well settled farming community; proved stock ranches and alfalfa farms; tat land values for home or investment, the today. Hartung Land Company, ale Agents, Cheyenne, Wyo.

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has at Mosida-by-the-Lake; in the most
sufful and most wonderfully fertile valy in the whole irrigated west; splendid
das; deep, rich, mellow soil; inexhaustiligation system now operating; many Kantanmers as references; lands rapidly
dransing in value; responsible local repremitatives wanted; write for particulars.

Morado.

Parker, 1606 Broadway, Denver,

BROTHER FARMER, DO YOU KNOW BROTHER FARMER, DO YOU KNOW by you never miss an opportunity to get our boy a position of trust in the town city? I do. It is because you think it is more respectable that he may be a sake or a merchant some day; that his auton in life will be more elevated than an Farming looked like a luxury to me, have about completed my seventh year the farm. I am surprised and humiliatist the disadvantages of farming. Read by story, learn the remedy, and pass it a making money, for I am not, as it will be this ad and postage. J. U. Shade, Caidell, Kan.

FOD SALE-80 A ALFALFA LAND, IF interested write for list of ten 80 acre tracts near Salina, V. E. Niquette, Salina, Kansas

MISSES BURKS & PATTON, REAL estate dealers. Write them for information in regard to Arkansas lands, Monticello, Ark.

Will sell my improved 80 a., Eastern kansas, close to city of 5,000, for \$4,000, \$250 down, bal. easy. Address Owner, care Kansas Farmer.

ONE OF THE BEST PAYING RANCHES in Greenwood county, Kansas, one mile from town and shipping point; 200 acres in cult., 100 acres of which are first bottom land; 200 acres in prairie meadow, 240 acres blue-stem pasture; 2 good sets of improvements; fine protected feed lots with living water; black limestone soil; cheap at \$38 per acre; corn on this ranch this year will make 50 bu, to the acre. J. C. Talbot, Eureka, Kan.

#### CATTLE.

HOLSTEINS FOR SALE—TWO REGIS-tered Jearling bulls raised in Western Kansas. Fifty dollars each. Ira Hawkins, Jetmore, Kan.

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

FOR SALE—FINE REGISTERED JER-sey cow; heavy milker and high test; will sell cheap for immediate sale; write for full information and price. Address A. R. T., Kansas Farmer, Topeka, Kan.

ONE RED POLLED DURHAM BULL, 3 years old, and one bull calf for sale; registered. C. S. Newton, Norwich, Kan.

JERSEY CATTLE, COLLIES, POLAND Chinas and White Wyandottes; one Scotch Collie pup, female, 5 months old, partly trained, nicely marked, natural heeler, \$25. U. A. Gore, Seward, Kan.

#### SEEDS AND PLANTS.

ALFALFA SEED-DO YOU WISH TO buy or sell? Write D. O. Coe, Topeka, Kan.

FOR SALE—FOX TYPEWRITER, nearly new, \$20. R. V. Wilcox, Atchlson, Kan.

"SEED WHEAT," INSPECTED KHAK-kof wheat, \$1.40 per bushel; sacked, f. o. b. cars here. Henderson Long, Haddam, Kan.

SEED WHEAT, CRIMEAN VARIETY, good quality; write for sample. Alva Alexander, Protection, Kan.

SEED WHEAT FOR SALE. GARDEN Kharhoff wheat at \$1.25 per bushel. C. W. Taylor, Pearl, Kans.

FOR SALE—PURE KHARKOV SEED wheat, \$1.50 per bu.; alfalfa seed, \$10.00. Recleaned and sacked, F. O. B., Emmett, Kan. Mrs. Theodore Saxon.

KHARKOF SEED WHEAT FOR SALE. Seed originally obtained from Hays Experiment Station. \$1.25, sack included. W. W. Cook, Russell, Kan.

### POULTRY.

BARRED ROCK BABIES AND BREED-ers. Eggs, 15, \$1.00; 60, \$3.25; 100, \$5.00; Mrs. D. M. Gillespie, Clay Center, Kan.

ROSE COMB WHITE LEGHORN COCK-crels, 50 cents. Mrs. John Hill, Vinland,

S. C. BUFF ORPINGTON EGGS \$1.50 per 15, \$6 per 100. Mrs. Ella Sherbunaw, Fedonia, Kan.

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

WHITE PEKIN DUCKS; 125 TO PICK from; 10 weeks old; weigh 5 to 6 lbs; satisfaction guaranteed; \$1 each. J. T. Welch, Whitewater, Kan,

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

LOWEST PRICES ON CHICKENS AND ducks; write us your wants; we have a stamp. J. M. Rahn & Son, Clarinda, Ia., Route 15.

BUFF WYANDOTTES—BARGAIN PRI-ces for balance of season. Eggs \$1.50 per 15; day-old chicks 15c each. High scoring birds only in breeding pens. A rare chance to get a start from high class stock. G. C. Wheeler, Manhattan, Kan.

### DOGS.

COLLIES: 100; PUPPIES, BROOD bitches and broke male dogs. W. R. Watson, Oakland, Iowa.

WOLF HOUNDS-WOLF AND SMALL game hounds for sale. Rash Bros., Centerville, Kan.

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

### MISCRILANEOUS.

FOR SALE—TEN THOUSAND HEDGE osts. H. W. Porth, Winfield, Kans.

25 HEAD WELL-BRED HORSES FOR sale; a bargain. S. R. Shupe, Sitka, Kan.

TAKEN UP-A STRAY STEER, TWO years old, at N. C. Pedersen's, Routs 10; phone No. 5, on 28, Emporia, Kan.

FOR TRADE—A GOOD THRESHING outfit for western Kansas land. Write W. J. Trousdale, Newton, Kan.

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

FOR SALE CHEAP—22 H.-P. 5-PASSENger Buick. Write W. C. Macy, Woodston, Kan.

FOR SALE—RAMS OF THE DORSET, Hampshire, Southdown and Ramboullet breeds. Animal Husbandry Department. Kansas State Agricultural College, Man-

#### FARM GATES.

EVERY ONE IN NEED OF FARM GATES and wanting the most practical and best farm gate on earth will find it to their interest to write to J. N. Neal, Rushville, Ind.

WRITE US TODAY FOR OUR PRICE list of our complete line of oils; best oils on the market for the price and quality. The Rollin Oil Refinery, Chanute, Kan. (Oldest independent refinery in Kansas.)

LEARN TO BE YOUR OWN DRESS-maker. Write Mrs. Louis Johnson, Belle-ville, Kansas. Branch School American College Dressmaking, Kansas City, Mo.

FOR SALE—NEW 1911 HUPMOBILE runabout; only slightly wsed 3 months; fully equipped; cost \$800; will sell for \$600 for quick sale; want to buy a bigger car. Address M. K., care Kansas Farmer, Topeka, Kan.

FOR SALE—A USED DOUBLE SEATED surrey; hand made to order; extra heavy wheels; full leather top; finest of materials and workmanship all through; not been used enough to burt; cost \$600; will sell at big sacrifice for quick sale; particulars sent by return mail if you write. \$10, care of KANSAS FARMER, Topeka, Kan.

#### A Correction.

In the August 19 issue of Kansas Farmer, on page 5, in the story of the irrigation plant installed by Scott Kelsey, the statement was made that the cost of the outfit was \$500. This figure was an error. It should have been \$650, according to the advice of the firm which installed the outfit.

#### To Break the Hard Pan.

J. C. H., Navarre, Kan., says he is in favor of deep plowing and knows that it pays. He wants to know if an implement has been invented which will break up the hard pan any more easily than the common plow.

the common plow.

The presumption is that the hard pan is what is known as "plow sole," formed by the scraping of the plow bottoms over the furrow bottom at the same depth year after year. This puddles the ground and makes a thin layer practically impervious to water, which is extremely difficult to tear up, even when the ground has plenty of moisture. When it is dry it comes up in great chunks that try the plow beams great chunks that try the plow beams

and exhaust the teams.

The writer has found that for this thin "plow sole" the disk plow is an excellent tool. It cuts a slicing furrow, and the rotary cutting edge cuts rather than tears the tough hard pan. The main objection to the disk plow is that it does not go deep enough, in many cases, to rip through the hard pan and let the moisture find free access to the subsoil, where it will be held for the following crop. In such a case a deep tillage tool is to be commended, such, for instance, as the Spalding Deep Tilling Machine, recently described in this paper. Such a machine will cut out a furrow slice to a depth of 15 or more inches and pulverize the soil and exhaust the teams. 15 or more inches and pulverize the soil thoroughly. This is sufficient for ordinary cases of hard pan.

### Where There Is No Ice.

A subscriber tells of a simple way of keeping milk and butter without ice, and to those who wish to avail themselves of this hint I will say that these pots may be had large enough to hold a gallon jar, and two or three of these pots would serve to keep a good many articles of perishable food in good condition during the heated term.

"Obtain a large, common flower pot and scal the hole in the bottom with plaster of paris. Place in the pot the bottle containing milk, or a covered crock containing butter, and fill the pot with water to a great a doubt as pot with water to a great a depth as possible without bottle or crock floating. Cover the pot with a board or plate and set out in the open air, from the direct sunlight, and preferably where there is a current of air. The evaporation of the water from the surface of the porous pot will keep the contents several degrees colder than the outside air, when there is the slightest amount of air stirring. The higher the wind or the drier the air, the greater will be the cooling effect."



### A \$2 to \$3 Gut in Drain Tile

On orders received by usbefore Sept. 15th the buyer saves from \$2 to \$3 a thousand; we prepay freight to your station. Send us your address on a card and we'll give you exact price delivered. You can figure the saving for yourself. We'll also send you free the Official Report on Farm Draining. This offer is good on all orders received before Sept. 15th. Every foot of tile delivered is guaranteed to be the Dickey Hard Burned Tile-first in durability.

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Crop production depends on soil character, tilinge and moisture. The greatest of these is moisture.

SAVE SOIL-MOISTURE by using the TOPEKA PACKER after your plow and ahead of the Seeder. Nothing ever invented for western farmers goes farther to insure better crop yields or to save seed, time and labor. Thousands in use and proving every day, that all our claims are facts.

We sell direct for wholesale prices and grantee every packer we stin. We sell direct for wholesale prices and guarantee every packer we ship.
Write for special fall prices and full description. Address,
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This is just a little ad—but a postal will bring my by Book—and give you my \$50.00 Saving Price and Special Proposition. You can save as much answering this little advertisement as lift to overed a page. My Spreader positively will do better work and last longer than any Spreader made—no matter what the price—so why pay \$50 more! More than \$50.000 farmers have atamped their O. N. on my epreader and money saving price. My Special Proposition will interest you. Just a postal addressed to Galilloway of Waterloo, lowa, will bring you everything postpaid.

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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. Write for

THE BEST IMPORTED HORSES, \$1,000 each. Home-bred, registered draft stallions \$200 to \$600 at my stable doors. Address A. LATIMER WILSON, Creston, Iowa.

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

PERCHERON HORSES, HOLSTEIN-FRIE-SIAN CATTLE. Up-to-date Poland China hogs, Write your

Wants, H. N. HOLDEMAN, Meade, Kans.

### ANGUS CATTLE

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

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

### JERSEY CATTLE

### LINSCOTT JERSEYS

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

curately kept.

R. J. LINSCOTT, Holton, Kansas.

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

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

GOLDEN RULE JERSEY CATTLE HERD.
Headed by Comeri's Eminent 85865; few bred cows and heifers for sale; reasonable prices.
JOHNSON & NORDSTROM,
Clay Center, Kan.

FOR SALE—Ruby's Financial Count, son of Financial Count No. 61816; 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 calf, milk testing 5½ per cent, and with last calf at the age of 6 years gave 44 pounds of milk for along period of time, milk testing 5½ per cent. The dam and grand dam of this cow are both 40-pound cows. Ruby's Financial Count is 3 years old and fit to head any herd. Financial Count is a half brother of Financial Countess, a cow with a butter record of 935 pounds and 10 ounces in one year. This young bull is sure, gentle and a fine individual, W. N. BANKS, Independence, Kansas.

### SHORTHORN CATTLE

### Houx's Polands and Shorthorns

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

W. F. HOUX JR., Hale Mo.

### SHORTHORNS EVERGREEN HOME FARM.

Lathrop, Missouri.

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

### **Pearl Shorthorns**

40 BULLS, 6 to 20 months old; straight Scotch and Scotch topped—mostly red.
Can spare a few females, same breeding.

C. W. Taylor, Enterprise, Kan. R. R. Station, Pearl, on Rock Island.

### 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.

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

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

### HERD BULL For Sale

Victor Orange 312830, a Scotch Orange Blossom, sired by Victorious 121469. H. R. COFFER, Savannah, Mo.

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 ofitable. A few young bulls and some fe-ales for sale. Write E. S. Myers, Chanute,

### 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, Mali

ers given prompt attention. WARREN LANDERS, Savannah, Mo.

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

TOM WALLACE, Barnes, Kansas.

### RED POLLED CATTLE

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

### RED POLLED CATTLE

The only dual purpose cattle and the most profitable for the farmer. Choice bulls for sale.

U. E. HUBBLE, Stockton, Kan.

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

FOSTER'S RED POLLS.
Choice bulls and heliers priced reasonable,
C. E. FOSTER, R. R. 4, Eldorado, Kan.

### **BELVEDERE X2712-195058**

Son of the \$1,500 Grand Victor X1635 150365 heads my herd of Double Standard Polled Durhams. A few extra good, blocky, thick-fleshed young bulls for sale. Inspection invited. Farm adjoins town.

D. C. VAN NICE, Richland, Kansas,

### HOLSTEIN CATTLE

SUNFLOWER HERD HOLSTEINS. ARE YOU THINKING of that registered bull you will need for fall and winter service? RIGHT NOW is the time to get in touch, for if you walt until you do have to have him, they may be gone. THE BEST BRED and BEST lot of individuals I have ever had to offer, aged from one month to ONE year. Also females for sale ALWAYS. DON'T walt; devestigate this today.

F. J. SEARLE, Oskaloosa, Kan.

### **Rock Brook Holsteins**

20 bulls ready for service at \$75 to \$100. ull calves \$40 to \$75. Pedigreed and tuberculin tested.

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

HOLSTEIN CATTLE, The Most Profitable Dairy Breed, istrated descriptive booklets free, Hol-Friesian Ass'n of America,

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.

F. L. HOUGHTON, Sec., 114 Brattleboro, Vt.

HOLSTEIN CATTLE—M. E. Moore & Co., Ameron, Mo., breeders of Holstein-Freisian attle. Ten head of high-class cows for sale, ome with A. R. O. records; herd headed by he celei-rated Sir Johanna Colantha Fayne cattle. Ten i

NOLSTEINS 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, HOLSTEINS FOR SALE.

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#### RANCH FORT LARNED

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

GUERNSEY CATTLE,

HAVE A SPLENDID Guernsey bull; am pricing at a bargain for quick sale; 3 yrs. old; wt., 1,550; a good one and a great breeder; would appreciate it if you could

help me to a sale.

F. E. MULLER, Hamilton, Mo.

SHROPSHIRE SHEEP—M. Gottswiler; imestone farms, Clarksdale, Mo., breeds Shropshire sheep, big Poland hogs, Buff Orpington and Single Comb Brown Leghorn chickens; Pekin and Indian Runner ducks, and Chinese geese; choice rams and poultry for sale; worth the money.

### 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.

### RED POLLED CATTLE

F. W. LAHR, Brooks, Is., breeder of high-class Red Polled Cattle and Durco Jet. sey Hogs. Herd bull Banker 16226, sired by One Price 8522, for sale. This is a 2.544 lb, bull of the show type, and a guaranteed breeder. Will be sold, worth the money. Write me for description of stock and prices. Salisfaction guaranteed.

F. W. LAHR, Brooks, Is.

#### SCOTCH SHORTHORN BULLS

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

GEO. A. ROBINSON. Prescott Ia.

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DUROC JERSEYS

### Rose Hill Herd Of Duroc Jersey Hogs

We have for sale two choice yearling boars, two December boars, early spring pigs of both sexes, and a few yearling sows that raised good litters, all from large, prolific sows and by mature boars of State Fair prize blood.

S. Y. THORNTON. Blackwater. Mo.

### 12 Extra Choice Duroc Boars For Sale

Tops of 30 head, stred by King of Chapin & Nordstrom, Green, Kan Col. 2d and G. C.'s Kansas Col.

UNITY CHESTER WHITE HERD.

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

CHOICE DUROC JERSEY TRIED SOWS

FOR SALE.

Bred for Sept, farrow; good individuals and excellent mothers; granddaughter of Kantbebeat, Ohio Chief and other noted boars; also fall yearlings, bred and open; attractive prices will be made for a short time.

time. RIVER BEND FARM, W. T. Fitch, Prop., Minneapolis, Kan.

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

DUROC herd boar for sale—Red Raven, one of the best breeding boars in the west; can't use longer to advantage and will price low; also 100 spring pigs by 5 dif-

GEO. PHILIPPI, Lebanon, Kan.

ZION HILL STOCK FARM.
The home of richly bred Durocs, headed by Miller's Nebraska Wonder, grandson of Nebraska Wonder; 100 Feb, and March pigs, nostly by this boar; reasonable prices.
E. P. FLANNAGAN. Chapman, Kan.

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.

POLAND CHINAS

### FRANK ELDER. Green, Kan.

MOONEY CREEK POLAND CHINA HERD The biggest of the big. Wonder and Mastadon strains. Herd headed by Big Osborne, Figs raised under natural conditions and no overfed. I have bought seed stock from the best herds in Iowa and have new breeding for Kansas, Write for information about the kind I breed. Visitors always welcome.

JOHN W. NOLL, Winchester, Kans

VALLEY FALLS BIG POLANDS.

VALLEY FALLS BIG POLANDS.

The spring pigs sired by Chief Grand Gold Bell

and Gold Bell

and Gold Bell

and Gold Bell 60 choice spring pigs sired by Chief Grand Look, Blain's Gold Dust and Gold Bell Medal; out of big-type mature sows; raised under natural conditions; write for descripon, breeding, etc. M. T. WILLIAMS, Valley Falls, Kan.

SPRING BROOK STOCK FARM.

Shorthorns and Poland Chinas; 80 choice pigs to select from, sired by noted big-type boars.

T. M. WILLSON, Lebanon, Kansas,

LOOKS RESERVE 41217.

A great son of King Look offered for sale at a real bargain; fwlly guaranteed. See his get and you will want him.

W. V. HOPPE.
Stella, Neb.

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

### 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.

POLAND CHINAS.

POLAND CHINAS.

Hickory Grove Farm—For big-boned, black and spotted Polands; 100 high-class early spring pigs for sale; also over-year-old boars and aged boars with records for breeding.

GEO. & OLLIE TAYLOR, Cameron, Mo.

### POLAND CHINAS

STONE'S BIG TYPE POLAND CHINAS Headed by Smith's Hadley by Mammoh Hadley, he by Big Hadley, Sows of Megul Monarch, Expansion, etc., breeding, Hed established 7 years. Choice spring pigs for sale, Sam Stone, Leonardville, Kansas,

CRESCENT Herd big type Poland China, Headed by Look's Reserve 41317; sow herd descended from noted big sires; choice lot of spring pigs raised under natural conditions; write for description and prices; satisfaction guaranteed.

R. M. BUNNELL, Atchison, Kan.

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

S. P. CHILES POLAND CHINAS,
For sale, a choice lot of spring pigs, sired
by Sentinel by 2nd Independence, out of S.
P. Perfection sows and Perfect Louise and
S. P. Louise. The dam of the lowa champion and junior champion last year. Write
for prices. S. P. CHILES, Jefferson, Kans. MADISON CREEK POLAND CHINA HERD Headed by Big Boned Pete. Sows of Mastadon and Wonder breeding. Stock raised under natural conditions; 70 pist ready to ship, all out of mature sows. J. L. GRIFFITHS. Riley. Kan.

BIG BONED POLAND CHINA HERD-xpansion and Hadley sows, headed by My lant Wonder by Prince Wonder, dam by range Chief; choice spring pigs, bots sexts asonable. John T.Curry, Winchester, Kansst.

PLEASANT RIDGE HERD Poland Chinas headed by Hustler 2d; 50 choice pigs to se-lect from;; pulces right. M. T. SHIELDS., Lebanon, Kansas,

MILI IGAN'S POLAND CHINAS.
Tried sows with or without litters; glis
bred or open; weaning pigs, either sex;
birgest of the big; also medium type; bedrock ppices. Phone Idana 6822.
W. C. MILLIGAN, Clay Center, Kan,

### CHOICE FALL GILTS FOR SALE

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

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

A few choice sows bred to EXPANSIVE 34723

For fall litters for sale now. Prices right.
H. B. WALTER, Effingham, Kansa

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

GREEN LAWN HERD
Big-boned Poland Chinas; herd headed by
Big Spot, Major B, Hadley; a choice lot of
spring pigs for sale out of large, mature
sows; write us what you want or come and
let us show you.

A. J. ERHART & SONS. Adrian. Mo.

BIG POLANDS.

John B. Lawson's Herd, Clarinda, Iowathe big, smooth kind. Pigs for sale sired
by Long King's Equal. Book you ared
early. Pigs farrowed in February and early
in March. by Long early. Pi in March,

70 CHOICE POLAND CHINA PIGS To select from; also tried sows and gills bred or open; the big, smooth, easy feeling kind.

JOE SCHNEIDER, Nortonville, Kan-

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### OLAND CHINAS

### POLAND CHINAS

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.

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Of both sexes from animals that combine sizes quality and quick maturity; we carry the finest blood lines in America; prices reasonable; express prepaid.

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BRED GILTS \$25 to \$30 EACH,
20 fall glits, big and smooth. Big type.
Good time to start herd. Write quick,
Winchester, Hans.

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Cheap for particulars write, R. W. GAGE, R. D. 5, Garnett, Kan.

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ds the stretchy, big-type kind. A few gilts and sows and aged boars, also pg pigs, sired by Passtime, King Clipton, C Wonder, Brandywine, Big Bill Taft Pawnee Chief Hadley. Satisfaction guaranteed; hogs as represented; everything red before shipped.

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With big quality, good, big husky spring boars; also October, 1910, boars; a ber of herd headers sired by Jumbo Prospect, who weighs 850 lbs. in every-day, bes. Also some by Wonderful and other good boars. Will also sell Wonderful, pes. Also some by Wonderful, send for pictures of both boars, also prices. ERNEST W. BEERY, Shambaugh, Iows., R. F. D. No. 2.

DEAN'S MASTODON POLAND CHINAS

Mastodon Poland China hogs, the big-bened type that will weigh, when mature,
to 1,000 lbs.; Mastedon Price, sired by A Wonder, leads this herd. A number of
et fall boars for sale, also toppy spring boars. If you want the right kind they
at Quality Ridge Farm. Phone me at Dearborn, Mo; Railroad Station, New MarMo, Satisfaction guaranteed; stock sold worth the money.

Address CLARENCE DEAN, Weston, Mo.

LONE ELM POLAND CHINA HERD

J. M. Pemberton, Fayette, Me.

alot of very 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 the money. If you want big-boned, high-class Polands, write me at Fayette, Mo.

GILDOW'S BIG TYPE POLAND CHINAS
d headed by Big Bill Taft and Pawnee Chief Hadley. Choice lot of spring pigs for
pairs or tries no kin, also a few extra good sows and gilts either bred or open.
prices are right. Write DR, JNO, GILDOW & SONS, Jamesport, Mo,

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ILDWEIN'S BIG TYPE POLANDS, ed by Kansas Leader by Union Leader, ed by a grandson of Bell Metal; sows pansion, Hadley, Tecumseh and other the breeding; choice lot of spring plgs.

TER HILDWEIN, Fairview, Kansas.

### FOR SALE

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

ner's Big Smooth Poland Chinas d by Metal's Choice by Mo. Metal, he ell Metal. Eighty early spring pigs by this boar, Expansive, Big Price, Thomas and other good sires. Dams rd are big and motherly and have the kind of big type podigrees. Visitors

T. J. MEISNER, Sabetha, Kansas.

TRYKER BROS.' HERD POLAND CHINAS.

greatest show and breeding herd in the control of the control

#### IRVIEW POLAND CHINAS

sale, boars fit to head herds, sired by indley, Correct Thickset and Triple Ef-also 90 choice spring pigs. For descripand price write P. L. WARE & SON, Paola, Kan.

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

IG-TYPE POLAND CHINA BOARS, ed by Bell Expand; only the best re-d fer breeders; also 5 choice Shorthorn, Scotch and Scotch topped; inspection ed.

S. B. AMCOATS, Clay Center, Kan



KING DARKNESS
No. 149999 heads my
herd of richly bred
Poland Chinas; &
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.

EADLEY, BIG HUTCH AND EXPANSION BLOOD

ominate in my herd. Herd boars:
h Jr. by Big Hutch and King Hadley
7 Big Hadley. Among sows are Granlitter sister to Bell Metal; Pan Prinweight 725 lbs.; Mollie S., 750 lbs., and
Corwin, the dam of Expansion See, the
sat boar ever owned in the West. 50
c pigs farrowed to date. Visitors alwelcome,

C. W. JONES, Solomon, Kansas.

ddle Creek Poland Chinas r Sale—Few large type fall boars sired Monarch Mogul out of my best sows. I are herd headers and priced to sell.

W. H. EMENS, Elmdale, Kansas.

### Big Boned oland Chinas

only big, stretchy boars and glits for fired by the most noted boars. Big Had-John Ex., King Hadley and John Long and out of strictly big type sows. Write CHAS. Z. BAKER, Butler, Mo.

ROSE LAWN POLAND CHINAS.

Ing Darkness by Meddler 2d, assisted
Shortfass Meddler by Meddler 2d head
bert of richly bred Poland China sows.

MANDERSCHEID, R. 3, St. John, Haz.

STEAD'S BIG-TYPE POLANDS LEAD Colce early farrowed pigs to select the blood of Hutch, Commander and big sires; sows selected from many as herds.

A. R. REYSTEAD, Mankato, Kaz.



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(Largest in the World.)

Gentlemen: Please send me your large illustrated catalog. I may attend your school at Kansas City, Mo., P. O. Box 433, beginning October 2nd.

COL. H. S. DUNCAN, Live Stock Auctioneer, Clearfield, Iowa. 

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#### LARGE ENGLISH BERKSHIRES

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

BERKSHIRE HOGS.

Baron Fremeir 84th, Premier Duke 70054 and Aritul 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.

HAMPSHIRE HOGS.

S. G. LAWSON'S HERD,
Bred sows and gilts 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, Ravenwood, Mo.

FIELD NOTES.

Philip Albreicht Visited.

Philip Albreicht, one of the eld-time Duroc Jersey breeders of Smith Center, Kan., was visited by a Kausas Farmer field man recently. Albreicht has an unusually choice lot of stock on hand and will hold a fall sale, announcement of which will appear later. Mr. Albreicht also has a fine herd of registered Shorthorn cattle. The pigs are nearly all by the great boar Bell Top, he by Bell Chief.

Josia Lambert Visited.
One of the most successful Poland China breeders of Central Kansas is Mr. Josia Lambert of Smith Center, Kan. Mr. Lambert established his herd 12 years ago, and has made a real success of the business. His herd boar is Collossus X 2d. The 50 choice pigs are all by this boar. Mr. Lambert's advertising will start September 1, when a more extended writenp will appear.

### THE STRAY LIST

GUY G. ADAMS, County Clerk, Greeley County. Taken up—1 horse, male, sorrel, white strip in face, both hind legs and feet white; appraised value \$30.00; was taken up on the 15th day of June, 1911, by C. A. Mc-Allister, at Thelma, Tribune Township, Kan.

W. S. PLUMMER, County Clerk, Potta-watomie County. Taken up—3 head cattle, 2 helfers, 1 steer, red, whitefaced, coming two years old; right ear cut off, plece of upper edge of left ear cut out; were taken up on the 14th day of July, 1911, by Guy W. Carlson, Olsburg, Kans.

One of the genuine real estate bargains advertised in this issue of Kansas Farmer is a level section of land lying nine county for sale at the low price of \$12.50 per acre. This land is for sale by the owner and must be sold, if sold at all, before September 1. The soil is good and absolutely free from rock and gravel and has a fine sheet of water. A \$3,000 property will be taken on trade and only \$2,700 cash required, owner will carry remainder at 7 per cent interest. This looks like a snay and is certainly worth investigation. See advertisement in this issue and write quick.

Hickory Grove Farm Polands.

Attention is called to the change in the card of George & Oille Taylor of Cameron, Mo. This firm breeds the big-boned Poland Chinas, and has both the black and spotted kinds. They have 100 head of choice early spring pigs, the big, high-class, mellow kind that make the most pork. The firm also is offering several high-class, over-year-old boars and three aged boars that have proven to be excellent breeders. The firm's herd boars, Big Ben, Prince Monarch, Expansion Boy and Mouw's Special, are four of Missouri's great boars, all



WHITE ONES RAISED BY J. N. GEORGE, HOPKINS. MO.

Phillipi Offers Herd Boar.

George Phillipi, one of the good Duroc Jersey breeders of Kansas, changes advertising copy this issue and offers to sell his great breeding boar, Red Raven, by Agra Topnotcher. Red Raven has proven his worth as a sire of good, big litters, and will be sold very reasonably, not for any fault whatever, only that Mr. Phillipi has so much of his get that he cannot use him longer te advantage. Mr. Phillipi also has for sale 100 choice pigs sired by five different boars. Write him for prices, descriptions, etc.

Bunnell Buys Herd Boar.

Mr. W. V. Hoppe of Stella, Neb., has sold his great herd boar, Look's Reserve, to R. M. Bunnell, the wide-awake young Poland China breeder of Atchison, Kan. Look's Reserve is one of the good sires of the breed, sired by King Look, the noted prize winning boar owned by Meese of Nebraska. Look's Reserve is a very large boar and is no experiment, having already demonstrated his ability as a producer of the kind that are in demand. Mr. Bunnell is to be congratulated upon his good judgment in making this purchase.

Ladies wanting instruction in dressmaking so as to be able not only to do their own sewing, but to know how to make good money teaching, should write at once to Mrs. Louise M. Johnson of Belleville, Kan. Mrs. Johnson has charge of the school at that place, which is really a branch of the American College of Dressmaking, located at Kansas City. Mrs. Johnson maintains a good sized, well ordered school, also gives lessons by mail. This proposition should be of interest to every girl that expects at some time to have a home of her own.

of them high-class and the big kind. The Messrs. Taylor also have one of the best sow berds in the state. They report business-good this fall and are shipping hogs almost every day. All stock sold by this firm is guaranteed to be just as represented, and they have a herd that should interest farmers and breeders wanting big Poland China hogs.

Poland China hogs.

T. E. Durbin's Big Polands.

T. E. Durbin's Big Polands.

T. E. Durbin of King City, Mo., the well-known breeder of big-type Poland China hogs, announces November 3 as the date of his annual fall sale. Mr. Durbin has one of Missouri's very high-class herds of big Polands. His sow herd is composed of individuals of the best big type blood lines, and in selecting sows for his herd Mr. Durbin has neglected none of the qualifications that insure a select herd. His herd boars, Blue Valley Ex and Missouri Wonder, are models of the big type. Both are big, smooth fellows, heavy bone, good heads, good backs, the best of feet and both can be classed as among the best of boars. Mr. Durbin has about 100 head of early spring pigs that are extra good ones, and his offering at his annual fall sale will be an unusually good one, as he will select the tops of the herd. He also will offer a number of extra good fall glits that will weigh from 350 to 400 pounds by the big-type boars. Mr. Durbin has about 100 head of early spring pigs that are extra good ones, and his offering at his annual fall sale will be an unusually good one, as he will select the tops of the herd. He also will confer a number of extra good fall glits that will weigh from 350 to 400 pounds by the big-type boars. Mr. Durbin has about 100 head of early spring pigs that are extra good ones, and his offering at his annual fall sale will be an unusually good one, as he will select the tops of the herd. He also will offer a number of extra ood fall glits that will weigh from 350 to 400 pounds by sale date, and a few very high-class fall boars. Mr. Durbin's offering, November 3, will be one of the best in north Missouri

and

not.

### SIN LANDS BARGAINS

### 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.

ARE YOU LOOKING FOR A REAL SNAP?

Here is one. I am wanting money pretty bad and have the following bargain to offer to anyone who has a little money to handle it: I have a fine, solid section of land, lays 9 miles from the county seat of Wallace county, Kansas, which is as fine a section as will be found in the west; lays fine, good, rich soll; no rock, no sand, no gip; fine sheet water; good climate. This land is all free and clear; good tittle. This is a dandy, and to turn this land by Sept 1, I will put the land down lower than any land on the market in Wallace county for this class of land; \$12.50 per acre takes it, and I will take a good residence property up to \$3,000; must be clear; will consider hardware stock; any good stock worth \$3,000, if clear; \$2,700 cash and will carry balance on land at 7 per cent interest. Here is a fine chance to make a nice turn at cash prices. Address owner, Box 214, Smith Center, Kan.

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

IT'S FREE. Southeastern Kansas Home-seeker. If you want land send for it. Ad-dress THE ALLEN COUNTY INVESTMENT Longton, Kansas.

OORN. ALFALFA, WHEAT lands near Emports, Kan.; the best land in Kansas for the price; write for list.

T. B. GODSEY, Emperia, Kan.

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.

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

WANT LAND for a clean, strictly up-to-date stock of HARDWARE in Salina, invoice \$12,000. Monthly sales \$1,600.00. Cave Realty Co., Salina, Kans.

EASTERN KANSAS BARGAINS—Improved stock and grain farms; \$30 to \$65 per acre; write for list free.

J. E. CALVERT, Garnett, Kan.

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,

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

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

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

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

FOR SALE—Five sections of level farming land in the great rain belt of Colorado; soft water on each section; shallow water all over; one set of good improvements; fine colonization property. Write

J. L. RECTOR. Calhan, Kan,

WRITE FOR MY BIG LIST OF CHEAP cattle, horse and sheep ranches. I have improved farms worth the money on terms to suit in the sure wheat belt. Agents wanted to co-operate.

J. C. WHARTON, McCracken, Kansas. STAFFORD COUNTY, KANSAS. One of the best farming sections in the state; write me for descriptions and full particulars about some of the fine farms I have for sale in this section; good crops all the time, A. L. McMILLAN, Stafford, Kansas.

YOUNG MAN'S CHANCE—My improved eighty for sale. Don't need money, will carry reliable parties from 1-20 years. Tired of renting it. (Address) Owner, Care Kansas Farmer.

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BARGAINS: 160 acres, 100 cultivated, 15 BARGAINS: 160 acres, 100 cultivated, 15
alfalfa, balance pasture. 5-room house,
barn 24 by 32, shade and fruit, price \$8,500.
\$1,000 cash, balance terms. All kinds and
sizes in corn wheat and alfalfa belt. Write
for free list.

W. G. STUDEBAKER,
Salina, Kan.

A FINE NESS COUNTY FARM.

640 acres, 1½ miles from town; ½ mile to school; 500 acres smooth, bal. good pasture; never failing spring, also good well; 4 miles of fence; 300 acres in cult.; land all clear; will trade for good, clean stock of mase; price \$20 per acre.

RUTHERFORD

### STOP RENTING

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.

Sell or Trade Co. farm to trade for western Kansas wheat; farm must be priced right; \$12,000 stock gen. mdse, for western stock ranch; 160 a. well improved for sale cheap; 77 a. for merchandise. Write us now.

NEAL-BOWMAN LAND CO., Garnett, Kan.

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.

Bend for full description.

Kansas Map and new land list free.

JAS, A, THOMPSON,

Whitewater.

Kansas.

Whitewater,

EXCHANGES—Lands, city property, stocks and mdse, What have you to offer?
FOSTER BROS., Independence, Kan.

240 A. 3 MILES ESBON, KAN.; a bargain at \$57 per a; good improvements, J. A. COLE, Esbon, Kan.

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

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.
EBERWART & MELLOR, Whitewater, Kan.

100—CHOICE DICKINSON AND CLAY CO.

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. \$200° cash; rest to suit; 25 a wheat included, Write for list, J. J. Bishop, Wakefield, Kan.

GREENWOOD COUNTY FARMS and well-grassed stock ranches, in the corn, clover and bluegrass county, for sale at low prices on liberal terms. Write for full information.

J. G. SMITH, Hamilton, Kansas,

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

FOR TRADE—314 acres, eastern Kansas; well improved; fine home; black prairie land; price \$75 per a.; want income city; we had a big wheat and a big corn crop to gather; write today.

G. T. KINSEY,

Le Roy, Coffey County, Kan.

80-ACRE FARM near Emporia; 1 mile to school; fine fruit; splendid house and barn; well and windmill; alfalfa growing; price \$6,000; list of farms and ranches mailed on

G. W. HURLEY, Emporla, Kan.

### If you want to buy land or make some exchanges. Write G. K. JACKSON, Eureka, Kans

IF YOU MEAN BUSINESS and have real estate and merchandise 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 Co., Kansas.

BLUE EARTH COUNTY, MINN., FARM.

160 acre well improved farm, with good black loam sell with clay sub-soil; can be bought on easy terms at a bargain; for views of buildings and particulars, write

C. E. BROWN LAND CO.,

Madelia, Minn.

### FOR TRADE

800 a. in Taney Co., Mo., 2½ ml. to town, 00 a. creek bottom in cult., 400 a. fenced; arge 2-story house, large barn and other utbuildings; wants mdse.; price \$13,000, nortgage \$3,000.

mortgage \$3,000. SPOHN BROS., Garnett, Kan.

A nice, smooth valley farm of 460 a., 3 miles of Fredonia, all tillable, 170 a. in cultivation, 180 a. fine meadow, balance pasture; good 5-room house, big barn and other improvements; free gas and also income from gas wells on farm, telephone and R. F. D. suitable for general farming or, stock raising. Easy terms. A snap. Priced for quick sale at owner's price, \$40 per acre. See or write,

M. T. SPONG, Fredonia, Kan. WHERE CAN YOU BEAT THIS?

### 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.

### **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 creamery 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,

109 West Seventh St., Topeka, Kansas.

### IRRIGATED LAND.

Buy an 8-acre farm in the Pecos Valley, Tex., on your own terms. I will help you to build a home and take my pay as the land earns it. Come on my next ex-

### September 5th, 1911

And see the finest chance to get a productive home where it is easy to live and

Write me at once so I can send particulars of this land and expense of trip. JOHN H. WOOD,

534 Kansas Ave., Topeka, Kan.

160 A.,90 IN CULT.; 20 alfalfa, rest pasture; 4½ ml. from town; exchange for general mdse. J. A. KASPAREK. Belleville, Kan.

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

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

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

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

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

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

FOR SALE—Good hotel, only one in town—doing good business. For this and other bargains write Box 53, Morrowville, Kan.

CORN, WHEAT AND ALFALFA LANDS. Stock ranches and city prop-erty for sale or exchange. J. N. THOUVENELL, WINONA, KANSAS.

### WRITE 6. L. PAINTER & CO.

\$15 per acre up. DODGE CITY, KANSAS.

### **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.

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

Irrigated Farms in Bent Co., Colo., total for general mass. Write me relative Government lands coming under new distribution of HARBY C. JOHNSTON, Las Animas, Colo. for general Government

\$12.50 per acre. 1040 acres in bot ance rough, but good grass land; all use fence; half cash, balance easy terms.
TAYLOR & BRATCHER, Coldwater, E.

A CASH SNAP; 320 acres, 11 miles ton 90 acres bottom land; stone house, go water; \$1700 cash, \$1500 long time; ob snaps; send for booklet.

BUXTON BROS., Utlea, Kan.

#### FOR EXCHANGE

A good 160-acre farm in Woodson Coty, Kansas; 70 cultivated, 66 meadow, ance pasture; no rock; \$65 per acre; mest, 200. What have you for equity?

A. B. ESTEP. Yates Center, Kansas.

Lamar Colo., NO BETTER II vestment than a kansas Valley Irrigated Land. Write the map, price list and full information. Grant A. WATSON LAND CO., Lamar, Prom Co., Colo. (Established in 1886 at Lama.)

15,000 ACRES CHEAP LAND, Kit Cheson County, Colorado for Sale or exchange Good relinquishments cheap. This is a rain belt of Colorado, Good soil, good wat good crops, everything prosperous with for particulars. GIBSON & NELSON, Faler, Colo.

FINE HOME, 48 a.. one mile of this de about 38 a, now in cultivation, bai, pasier 6 room house, new barn 34x60 and hay let two wells and mill and other outbuilding good orchard and all second bottom has the control of the second bottom has the second bottom and the second bottom has the second bottom between the second bottom has been second bottom between the second bottom has been second between the second bottom between the second between priced to sell at \$5,500 cash. E. F. Deer Blue Rapids, Kan.

EUREKA-400 acres improved 5 miles Spearville, ½ in cultivation, 100 a, pastur large 6 room stone house, stable, grann 2 wells, windmill, tanks, 2 hen house school 1 mile, phone, a dandy farm. 01 \$22.50 per acre; good terms. Send for list. Address STINSON & SHELDON, Spearlie, the control of the state of the stat

FINE STOCK PARM.

560 g., 100 a. in cultivation, 150 g.;
meadow, remainder in good pasture; 5 rest house; nice barn 106 ft, long, 30 ft, who other buildings; good well; orchard; or rural route; 3 miles to shipping point a 51/2 miles of Fredonia, the county sea, flourishing city of 3 railroads and abust ance of natural gas; very healthy and he ly located. Will take \$22,50 per a. if so by August 1. Good terms, Address

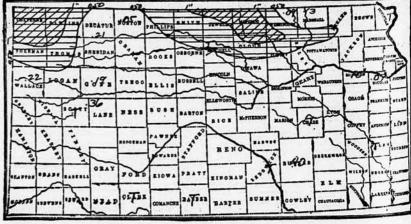
OWNER, Lock Box 926, Fredonia, Kans

### Alfalfa Farm For Trad

640 a, 3½ ml. town; want to trade cattle; pay you to investigate. Address R. F. D. No. 3, BOX 75, Plainville, Kan.

#### REPOR KANSAS CROP

Rain chart prepared by T. B. Jennings from reports collected by the Weather Sun



UNITED STATES WEATHER OBSERVER'S REPORTS BY COUNTIES. INCHES: SCALE IN Less than .50. .50 to 1 2 to 3

Allen—Soil slightly dry. Rain would be beneficial to vegitation.
Anderson—Needing rain badly. Water getting scarce.
Barber—Hot and dry. More rain needed for corn and feed crops.
Barton—Weather dry. Late corn needs rain badly.
Bourbon—Dry and hot. Too dry for corn to fill good.
Butler—Had good rain August 17, but could stand some more.
Clase—Getting quite dry. No rain to speak of since August 4.
Clark—Very hot. Crops beginning to need rain.
Cloud—Good rain August 17.
Coffey—Hot spell having bad effect on corn. Need more rain.
Decatur—Rain badly needed. Growing crops rapidly deteriorating.
Doniphan—Good rain much needed.
Douglas—Hot week. More rain needed and washins—Very hot, dry week. Norton—This has been a hard week all crops. Sowed cane and kaffir corn and during the rain August 17.
Rawlins—Very hot. Had pretty go rains during the Rice—Dry and hot. All vegetation su fering.
Rice—Dry and hot. All vegetation su fering.
Rice—Dry and hot. All vegetation su fering.
Sedgwick—No rain this week.
Scott—Need more rain.
Very hot. Gedgwick—No rain this week.
Stafford—Need more rain.
Sedgwick—No rain this week.
Stafford—Need more rain.
Very hot. Thomas—Not much rain.
Stafford—Need more rain.
Wallace—Light rain last turning of the last turning of turning of

Gove—A very hot week. Still needing rain.

Greenwood — Good growing weather. Fall plowing progressing fine. Need a light shower.

Jewell—Good growing weather for corn. Fine rain August 17.

Johnson—Dry and hot. Corn doing better than expected.

Kingman—Good rain needed. Very hot. Lane—The week has been warm. Good

Rice—Dry and hot. All vegenates fering.
Riley—Very dry and hot.
Riley—Very dry and hot.
Scott—Need more rain. Very hot cane and kaffir corn are doing wells.
Seward—Crops in good shape.
Beward—Orops in good shape.
Beward—Need more rain.
Stafford—Need more rain.
Stafford—Need more rain.
Sumner—Beginning to need rain.
and sultry. Plowing in full blast hot.
Thomas—Not much rain.
Wallace—Lipht rain last turning still hot and dry. Alfalfat turning fine.
Washington—Need more rain.
Not.

woodson—Everything doing well. b a good rain needed Wyandotte—Soil badly in need of mo

### THE GREGORY FARM

### Of White Hall, Green Co. III.

will show their string of Percheron horses and their Berkshire hogs at Topeka and St. Joe fairs.

 $_{
m Don't}$  fail to see their grand string of Percherons. A large number will be  $_{
m pares}$  and colts by the great stallions Radziwill and the grand champion Car-

A number of these mares, bred to these great stallions, will be sold on Novemer 8, at the annual Percheron sale, held at the Gregory farm. The Berkshires will be mostly the get of Masterpiece.

W. S. CORSA, PROP.

### FIELD NOTES

FIELD MEN.

PURE BRED STOCK SALES. 14-15.—H. G. McMillan & Sons, Rock Ia. H. G. McMillen & Sons, Rock

th. 7-8.—H. C. Glissman, Station B., Omsha, Neb.

Herefords. ov. 10.—Thos. Crawford, Butler, Mo. ov. 17-18—G. W. Newman, Emporia, Kan.

#### Poland Chinas.

Poland Chinas.

p. 13.—W. B. Wallace, Bunceton, Mo.
p. 14.—Bert Harriman, Pilot Grove, Mo.
p. 16.—J. A. Winebrenner, Tipton, Mo.
p. 16.—J. A. Winebrenner, Tipton, Mo.
p. 16.—J. A. Winebrenner, Tipton, Mo.
pl. 26—Ben, M. Bell, Beattle, Kansas.
pl. 28—J. D. Willfoung, Zeandale, Kan.
Sept. 26, B. M. Bell, Beattle, Kansas.
Oct. 4.—S. A. Bugg, Hamilton, Mo.
ct. 7—J. B. Dillingham, Platte City, Mo.
ct. 7—J. R. McClarnon, Bradyville, Iowa.
ct. 2.—W. H. Emens, Elmdale, Kans.
ct. 10.—Frank Michael. Erie, Kan.
ct. 11—S. A. Hobson & Son, King City, Mo.
ct. 14—T. J. Dawe. Troy, Kan.
ct. 16—A. R. Enos, Romona, Kan.
ct. 16—Oak Hill Stock Farm, Esbon, Kan.
ct. 17.—J. D. Spangler, Sharon, Kan.
ct. 17.—J. D. Gates, Ravenwood, Mo.
ct. 18—Geo, M. Hull, Garnett, Kan.
ct. 18—W. E. Long, Meriden, Kan.
ct. 19—Dietrich & Spaiding, Ottawa, Kan.
ct. 20—Geo, W. Smith, Burchard, Neb.
ct. 21.—Stedem Stock Farm, Marshall, Mo.
ct. 21.—Stedem Stock Farm, Marshall, Mo.
ct. 21.—A. R. Ryestead, Mankato, Kan.
ct. 21.—V. F. Fulton, Waterville, Kan.

23-Herman Gronniger & Sour,
na, Kan.
24-W. F. Fulton, Waterville, Kan.
24-W. F. Fulton, Lexington, Mo.
25-R. M. Finch, Sheriden, Mo.
25-R. J. Meisner, Sabetha-Kan.
26-W. B. Van Horn, Overbrook, Kan.
26-W. R. Webb, Bendens, Kan.
27-Baker Bros., Butler, Mo.
27-J. C. Haiderman, Burchard, Neb.
27-J. C. James, Bradyville, Iowa.
28-W. V. Hoppe, Stella, Neb.; sale at all City, Neb.

-W. V. Hoppe, Stella, Meb., City, Neb.,
-J. H. Harter, Westmoreland, Kan.,
-M. T. Williams, Valley Falls, Kan.,
-H. B. Walter, Effingham, Kan.,
-H. C. Graner, Lancaster, Kan.,
-T. E. Durbin, King City, Mo.,
-T. M. Willson, Lebanon, Kan,
-E. Howard, Morrill, Kan.; sale at

4.—E. Howard, Morrill, Kan.; sale at betha, Kan.
5-J. E. Bowser, Abilene, Kan.
7-H. J. Griffiths, Clay Center, Kan.
7-Verny Paniels, Gower, Mo.
8-I. E. Klein, Zeandale, Kan.
9-Young & Kimberling, Glasco, Kan.
9-Young & Kimberling, Glasco, Kan.
13-Ye. L. Ware & Son, Paola, Kan.
13-Walter Hildwein, Fairview, Kan.
14-F. W. Barber & Son, Franklin,

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

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

Neb.

an, 21—A. C. Lobaugh, Washington, Kan.

ch. 8—T. J. Charles, Republic, Kan.

ch. 8—H. C. Graner, Lancaster, Kan.

ch. 8.—H. C. Graner, Lancaster, Kan.

ch. 8.—W. E. Willey, Steele City, Neb.

ch. 12—Oak Hill Stock Farm, Esbon, Kan.

ch. 12—Oak Hill Stock Farm, Esbon, Kan.

ch. 14.—L. H. Harter, Westmoreland, Kan.

ch. 17.—Ernest W. Beery, Shambaugh, Ia.

ch. 17.—A. R. Ryestead, Mankato, Kan.

ch. 20—E. E. Logan, Beloit, Kan.

ch. 20—E. E. Logan, Beloit, Kan.

ch. 21—W. A. Prewett, Asherville, Kan.

ch. 22—C. W. Jones, Solomon, Kan.

ch. 23—J. J. Hartman, Elmo, Kan.

ch. 23—J. J. Hartman, Elmo, Kan.

ch. 23—J. J. Hartman, Elmo, Kan.

ch. 21—1012—L. R. McClarnon, Bradyville.

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farch 6-T. M. Willson, Lebanon, Kan.

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Duroc Jerseys.

bet. 9—E. W. Davis & Co., Glenwood, Mo.
bet. 1:—Pearl H. Pagett, Beloit, Kan.
bet. 20.—J. B. Davis, Fairview, Kansas.
bet. 20.—J. B. Davis, Fairview, Kansas.
bet. 3—Crant Chapin, Green, Kan.
bet. 3:—W. E. Monasmith, Formoso, Kan.
an, 3:—W. E. Monasmith, Formoso, Kan.
bet. 1.—Geo, Phillippi, Lebanon, Kan.
bet. 1.—Geo, Phillippi, Lebanon, Kan.
bet. 7, 1:3: Kan.
bet. 7, 1:3: Kan.

at Selow, E. Molar, Lebanon, Ram.

at Esbon, Kan.

cb. 7. 1912—Frank Elder, Green, Kan.

cb. 7. 1912—Frank Elder, Green, Kan.

cb. 2. Rinehart & Son. Smith Center, Kan.

cb. 3.—W. C. Whitney, Agra, Kan.

cb. 18.—J. B. Davis, Fairview, Kansas.

cb. 18.—J. O. Hunt, Marysville, Kan.

cb. 18.—Grant Chapin, Green, Kan.

cb. 18.—Grant Chapin, Green, Kan.

cb. 27.—W. T. Fitch, Minneapolls, Kan.

Feb. 28, E. P. Flanagan, Chapman, Kan.

Oct. 18.—J. N. George, Hopkins, Mo. Oct. 25—R. W. Gage, Garnett, Kan, Oct. 28—Arthur Mosse, Route 5, Leavenworth, Kan. Oct. 30.—C. R. Champion & Son, Raymore,

Worth, Ash.
Oct. 30.—C. R. Champion & School, Mo.
Mo.
Nov. 4—George O. Clark, Wilcox, Neb., and
O. W. & E. Holtquist, Sacramento, Neb.
Sale at Holdredge, Neb.

Standard Poland China Record, member-ship and 13 volumns for sale cheap. C. H. Hay, Oswego, Kans.

POLAND CHINA records for sale: 1 share of stock and 21 vols, in Standard P. C. Record Asn. Reason, change of occupation. J. L. STRATTON, Ottawa, Kan.

#### 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, prograssive, 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.

Charles Stith Ourocs Popular.
Charles Stith of Eureka, Kan., has sold 23 head of Durocs to parties in California. The Stith Durocs are very fashionably bred and are the kind that make good. Write Charles Stith, at Eureka, Kan., for prices and description. Kindly mention the Kansas Farmer.

#### Col. Lafe Burger Busy.

Wilmington, Kan., the colonel states that In a letter from Col. Lafe Burger of he has held several farm sales this month. Colonel Burger is an auctioneer with several years' experience in the auction business, both as live stock, land and farm salesman. Colonel Burger is well posted on values and a tireless worker. Write or wire him for date for your next sale.

#### Strike Ties Up Percherons.

Strike Ties Up Percherons.

People of the West have been reading about the railroad strike in England, but have doubtless failed to appreciate how far-reaching or how serious the trouble is. Mr. Watson, buyer for Watson, Woods Bros. and Kelley, Lincoln, Neb., cables Kansas Farmer that on account of the strike he is tied up in London and will not be able to reach the United States with the greatest bunch of Percherons, Shires and Belgians ever imported, and the cream of which he expected to show at the leading fairs, including Kansas State Fair at Topeka. The many friends of this leading firm of importers will regret the failure of their importation to arrive and will miss their string at the fairs.

### Ernest W. Berry's Big Polands.

Ernest W. Berry's Big Polands.

Attention is called to the card of Mr. Ernest W. Beery of Shambaugh, Ia., in this issue of the Farmer. Mr. Beery breeds the big-type Polands, the great big, mellow kind, with the bone to carry their immense weight, yet with all the class that could be desired. His two herd boars, Jumbo Prospect and Wonderful, are two of the best big-type boars in southern Iowa. Jumbo Prospect and Wonderful were recently inspected by a number of leading breeders and all agreed that they were among the best of the big-type boars, and Mr. Beery had a number of splendid offers for Jumbo Prospect, but refused to sell him at this time. He is offering a few choice spring pigs, sired by this boar, and out of good sows; also pigs sired by Colossal and Wonderful. He also will sell his herd boar, Wonderful, as he expects to keep all gilts sired by this great boar. Wonderful 58092 is a March yearling, sired by Grand's Wonder, he by Grand Look; dam, Best Girl, she by Big King. This is one of the best yearling boars in the country and will have to be seen to be fully appreciated. Mr. Beery will not hold a fall sale this year and is selecting only outstanding good ones in filling orders. Write him for pictures of boars, and please mention Kansas Farmer when writing. Farmer when writing.

Important Sale of Percherons.

Lee Bros., the well-known Percheron breeders of Harveyville, Kan., report an important sale of Percheron mares to Mr. W. S. Corsa of White Hall, Ill. The sale included 12 head of mares that Lee Bros. expected to show this year, and the sale was made with the understanding that Mr. Corsa will show them at all fairs where Lee Bros. had arranged to show. The noted mare Imported Huchepie, champion at the Hutchinson (Kan.) state fair, and American Royal in 1910, was included in this sale; also Camille and Della, other prize winners of the Lee Bros. herd. That Mr. Corsa made his selections from this herd to fill out his show herd is evidence that the Lee Bros. Herd of Percherons is in the class that produces the prize winners. They own a large herd and, although this sale includes a number of show mares, they are preparing to exhibit 16 head of young mares and stallions at Topeka and the Kansas City Royal this year.

# KANSAS POSITION

BIGGER OBETTER THAN EVER IN ATE FAIR UROUNDS

TO MAKE THE DILGRIMAGE

YOU CAN LEARN AS MUCH IN A WEEK AT THE FAIR AS IN SIX MONTHS AT SCHOOL AND IN ADDITION YOU WILL BE ROYALLY ENTERTAINED SOME of the MANY SPECIAL ATTRACTIONS

Enormous Agricultural, Live Stock and **Industrial Exhibits** 

Five full days of harness and running races. Pain's fireworks panorama, "The Fall of Pompeii." Uncle Sam's naval display and battleship models. Kansas Agricultural College display and trophies. Grand Opera, fully costumed and staged [evenings] Liberati's famous band - 60 stars. Patterson's colossal carnival combination. Scores of clean, free shows each day. Clark's Trained Dog and Pony Circus. Kansas fish warden's demonstration car. Henry Hammond Ahl's Marvelous Picture, "The Shadow of the Cross."

Kansas Semi-Centennial Festival

Will be Held During Fair Week with Historical Pageants Tuesday Evening

J. L. Griffiths Writes.
J. L. Griffiths, owner of the Madison Creek herd of Big type Poland Chinas, writes that the pigs are simply great. Mr. Griffiths has ene of the good herds of Kansas and prices his stock low considering quality.

Lobaugh Buys Iowa Herd Boar.

A. C. Lobaugh, of Washington, Kansas, writes us that he has recently pwrchased from one of Iowa's best breeders, a herd boar to use on this year's crop of gilts which will go into his winter sale. The boar purchased is an excellent individual, writes Mr. Lobaugh and was sired by Long King and out of a Giantess sow. Mr. Lobaugh has an outstanding lot of spring boars that he is pricing low considering quality.

100 O. I. C. Pigs For Sale.

Milton Pennock, owner of the famous Pipe Creek herds at Delphos, Kansas, starts advertisement in this issue of Kansas, starts advertisement in this issue of Kansas, sas Farmer. Mr. Pennock has lived at his present location since 1866. He is a thorough stockman and owns one of the finest herds of Red Polled cattle to be found anywhere. His foundation stock came from good Kansas and Nebraska herds. He has bred O. I. C. swine for thirty years and has bought seed stock from the best herds of half a dozen states. Mr. Pennock owns a fine 240 acre farm in a high state of cultivation. At present he offers for sale 100 spring pigs, also some fall boars that are dandies. His prices are right and his stock always gives satisfaction. When writing him kindly mention Kansas Farmer.

# LIFE INSURANCE IS NOT DIFFICULT TO UNDERSTAND

We can make it so clear to you that any doubt you may have will be dispelled almost instantly, FIRST, we secure your confidence by selling only the official Equitable Standard Policy, which has been drafted and approved by the Legislature of the great State of New York. SECOND, we place over Five Hundred Million Dollars behind the policies we issue so as to make certain that they will be paid promptly and in full. THIRD, all policies are written on the profit sharing or participating plan. Profits are paid each year in cash or they can be converted into paid-up additional insurance. A sample policy on the Ordinary Life, Limited Payment Life or Endowment plan and literature describing it clearly will be sent on request to any address. (See coupon below.)

CHARLES A. MOORE, GENERAL AGENT.

### WHAT THEY SAY

Grover Cleveland says: "Life Insurance is one of the greatest economical factors in modern life. It is one of the boons of civilization."

Dr. Lyman Abbott says: "One could easily bear to be poor; one could even bear to take his wife and children with him into poverty, so long as he could be with them to help carry the load, and carry the heaviest part himself. But to go off to his eternal rest and to leave them to go down into poverty and fight the wolf from the door—what prospect more terrible than this to look forward to?"

Ex-Governor Hughes (now Justice U. S. Supreme Court) says: "As a young man, when I was first looking forward to the obligations of manhood and duties of fatherhood, I realized that there was only one way in which a poor man without capital could protect his family from the vicissitudes of fortune and make proper security against the day which must come to us all, and that was through life insurance. And I have been interested in life insurance from that time to this. If I were to die tonight, to a very large extent the entire protection of my family would consist of life insurance policies."



### FORTY TO ONE

In this country there are about forty deaths to one fire. What do you think of the man who, when his building burns, reports that he had no insurance thereon?

## YOU'LL NOT NEED MUCH

yourself, after you're dead—but your family will keep right on wanting three meals a day—the landlord will want his rent just the same as now—and then there'll be all your debts to pay. Are you sure you have enough life insurance to provide for it all?

### PROTECT YOUR FARM

If your farm is mortgaged, have you stopped to think what will become of your farm if you should die? Your wife and children may not be able to carry YOUR work. Have you thought of protecting them and paying off your mortgage by life insurance? Write for full information. There is danger in delay. We will tell you how to get INSURANCE THAT INSURES. Fill out coupon and mail it now.

The Equitable Life Assurance Society of the United States

has been in business since 1859 (over half a century) and during that time has insured over ONE MILLION PEOPLE. At the present time over 500,000 people carry Equitable Policies for amounts ranging from \$1,000 to \$200,000 and upwards. Several well known men of wealth and national prominence have each insured their lives in the Equitable for over \$500,000. These facts attest the confidence which the best people of America have in Equitable policies.

### You Should Not Hesitate to Insure

with the Equitable if you wish to leave \$1,000, \$2,000, \$5,000 or more to your family at your death. Life insurance in the Equitable is absolutely safe. Even if you should die after making only one payment, the Equitable would pay the policy at once. During the year 1910 we paid 122 Death Claims under policies which had been in force for less than one year. One of them had been in force only a few days.

# THE EQUITABLE LIFE ASSURANCE SOCIETY OF THE U.S.

120 Broadway, New York.

CHARLES A. MOORE, GENERAL AGENT

412-414 Central National Bank Bldg., TOPEKA, KANSAS

Cha	rles A. Moore	General A	gent, Topeka, Kansas.	
Pl	ease send me	full particu	dars regarding a life in	sur
ance	policy for \$	l <b>.,,</b>	in your Soci	ety
at ag	e			
Nam	e			
Full	address			