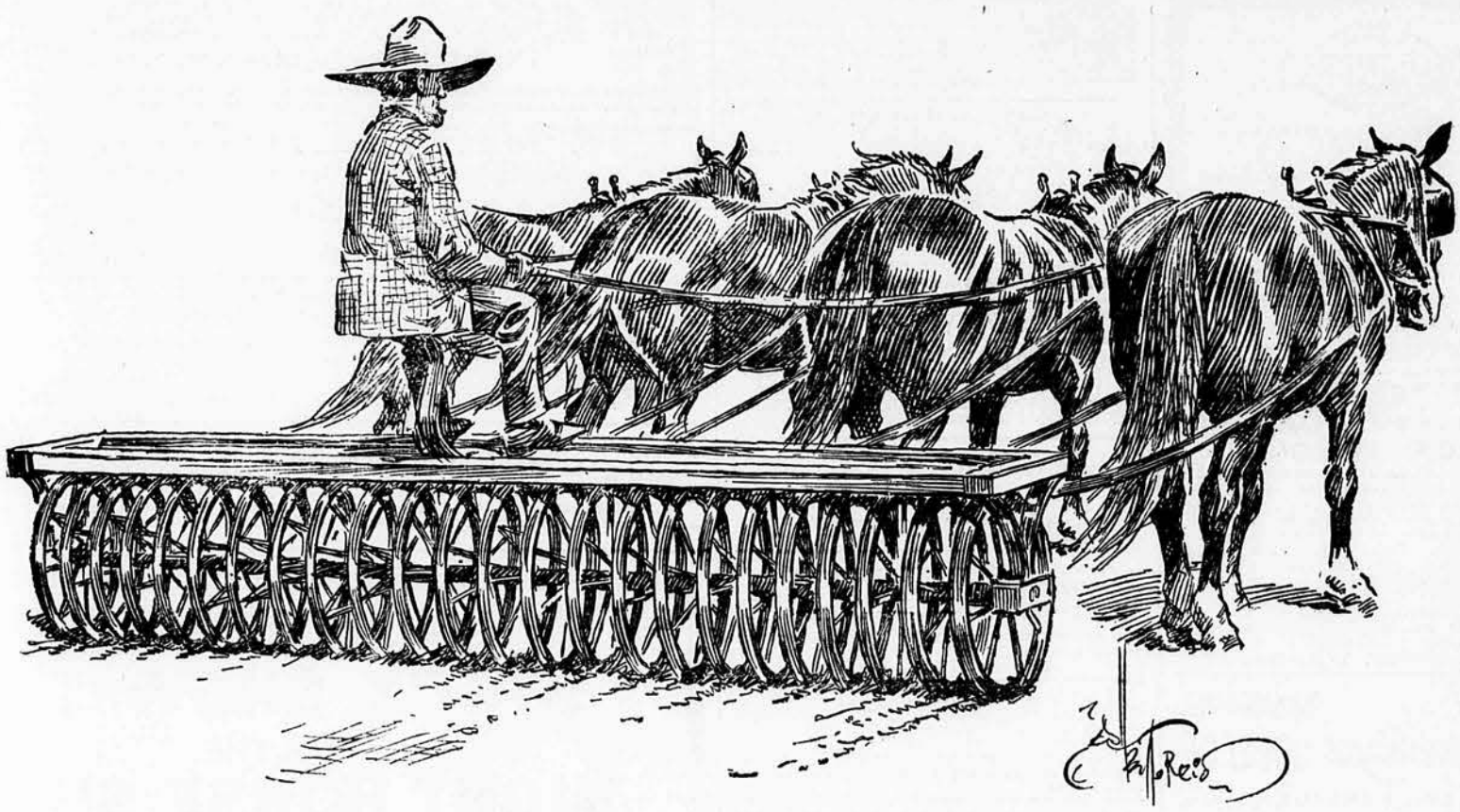
KANSAS FARMER

FOR THE IMPROVEMENT OF THE FARM AND HOME

lume 49, Number 33 TOPEKA, KANSAS, AUGUST 19, 1911. Established 1863. $1 a Year

SOIL tillage is old as the human race. From the crooked stick of the Aborigine to the Steel Plow of the present Kansas farmer is the span from barbarism to Christianity. Likewise the coming of the Modern Harrow from the wooden rake of antiquity. Without these two, civilization would recede and darkness stalk over the face of the earth.

Even as world peace and prosperity follow them, so will a greater plentifulness come after a wider use of the modern sub-surface Soil Packer, complement to and coming between the plow and the harrow; centuries in coming and evolved by the needs of Kansas agriculture, the farmer who neglects its use fails in his whole duty to himself, his family and his country. —*O. B.*



Complement to the Plow and Harrow

SCHOOLS AND COLLEGES

TOPEKA wants ambitious young men and women. She offers you the finest opportunities, at good salary, in big concerns—and the best facilities for business training.

A course in our School will fit you for positions that mean advancement and a successful future.

Good chances to earn expenses. Write for set of 8 handsome post cards, showing Topeka views.

Geo. E. Dougherty, Pres.
114 West 8th Ave., Topeka, Kansas.

PHARMACY PAYS

The druggist stands next to the doctor in reputation, service and reward. This School of Pharmacy excels in practical work, in courses of study, faculty, laboratories, equipment and methods of instruction. Has a three months' summer session.

Highland Park College

Besides the standard Ph.G. Course, we offer elective courses to fit druggists to pass examinations for registration, and some special Pure Food and Chemistry Courses. Graduates of our Iowa Course admitted to registration without drug store experience. The largest Pharmacy School in the country. Students in attendance from nearly every State. Tuition and living expenses very reasonable. If interested in Pharmacy, Chemistry, Pure Food Analysis, or in passing your Board for registration, write for catalogue. We can give you valuable information.

O. H. LONGWELL, Pres. Des Moines, Iowa.

Bethany College

BEFORE deciding where you will study Music, send for our 160-page illustrated catalog. Investigate our courses, cost, equipment, and many distinct advantages. Then note the experience and qualifications of our teachers and you will readily understand why we have the largest enrollment of any music school in the West. Address,

ERNST C. PIHLBLAD, President

Lindsborg, Kansas

WICHITA BUSINESS COLLEGE

Why is some "promiseful" solicitor so anxious to "close the deal" before you have visited several leading schools? Why does he "hang on" so hard if his school is really the best? We have an interesting catalog for you.

WILL G. PRICE, Pres.,
114-116 NORTH MARKET,
Wichita, Kan.

BLEES MILITARY ACADEMY
MACON, MISSOURI

Open September 20. New management. Dr. W. A. Wilson, eight years president of Lexington College, Lexington, Mo.; 15 years president of Baylor College, Belton, Tex., has absolute lease. Over one-half million dollars invested. Finest equipment outside of West Point. Prepares for university. Teachers specialists. Col. G. L. Byroade, U. S. A., Commandant. Eight hundred acres with shade, lawns, lakes, drives, hunting, fishing, riding boating and other out-door sports. Send for catalogue.

W. A. WILSON, A. M., Supt.

Spalding's COMMERCIAL COLLEGE

10th & Oak Sts., KANSAS CITY, MO.
46th Year. $100,000 College Building has 15 elegant Rooms, including Auditorium and Gymnasium. SHORTHAND, TYPEWRITING, BOOK-KEEPING, TELEGRAPHY AND ENGLISH. DAY & NIGHT SCHOOLS. Write to-day for FREE Catalogue "B"

MANHATTAN
Business College

Thorough work offered in Bookkeeping, Banking, Shorthand, Typewriting, Penmanship, Court Reporting and Civil Service. Special Short Course in Farm Bookkeeping. Work may be taken in connection with regular course at Kansas State Agricultural College. Fall term begins Sept. 5, but students may enter at any time. For catalog address, L. W. NUTTER, Pres., Lock Box E, Manhattan, Kan.

BUSINESS TRAINING

increases every man's efficiency as a producer. It helps to save waste and loss of effort, time and product. Every farm is a business institution and business training for the farmer is an every day necessity. The

PRACTICAL COURSES

in our school are specially designed to meet the needs of young men and women of the farm. Cost is relatively small; our work of highest efficiency. The success of our graduates proves this. Save time and expense by coming to us. Write today for full particulars.

FREDONIA BUSINESS COLLEGE, Fredonia, Kansas.

Strickler's TOPEKA BUSINESS COLLEGE

Superior, up-to-date methods.
25 years continued success.
Students in every state in the U. S.
A good position for every competent young man or woman. Write us.
111-13-15-17 East Eighth St., Topeka, Kan.

Uncle Sam Wants Stenographers!

U. S. Civil Service Commission states emphatically the supply of male stenographers is far too limited to equal the calls. Prepare yourself! Six months to year required. Catalog for asking.

Leavenworth Business College
Leavenworth, Kansas.

HIGHLAND COLLEGE, Highland Kansas

THE OLDEST SCHOOL IN KANSAS
The Northeastern Official Training School for Teachers

COURSES: College, Normal, Academy, Business, High Grade Conservatory; Voice, Piano, Violin, Band, Oratory. None Better. Thorough, expenses low, environment the very best. Write for catalog.

REV. Wm. C. T. ADAMS, President

Do Not Attend Business College Until

You see our 76-page beautifully illustrated catalogue. A business education counts when making application for a position. *The business college graduate is always given first consideration.* We furnish graduates positions anywhere in America. Catalogue free. Salt City Business College, Box 353-B, Hutchinson, Kan.

LAWRENCE Business College
Lawrence, Kansas.

Write for our beautiful illustrated catalog free. It tells all about the school, contains school room views, shows students at work, and will tell YOU how to fit yourself quickly and at small expense for a good position. We secure the position for you. P.O. Box 1414
Lawrence Business College, Lawrence, Kans.

KANSAS CITY Business College
N.E. CORNER TENTH AND WALNUT STS.
For catalogue address C. T. Smith, Sec., 106 E. 10th St., Kansas City, Mo.

Ottawa Kansas Ottawa Business College Catalogue Free

Emporia Business College

Clean moral surroundings. Special courses for farmer boys and girls. Free catalog.
Emporia, Kans., Box F.

INDIANA VETERINARY COLLEGE.
Graduates eligible for U. S. Bureau of Animal Industry, U. S. Army veterinarians and for private practive. Teaches every branch of veterinary science. Catalogue. F. A. MUELLER, Sec., 820 E. Market St., Indianapolis, Ind.

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. McAllister, at Thelma, Tribune Township, Kan.

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

KANSAS STATE AGRICULTURAL COLLEGE
"THE PEOPLE'S COLLEGE"
MANHATTAN

Courses of Study

AGRICULTURE: Agronomy, Animal Husbandry, Horticulture, Dairy and Poultry Husbandry, Veterinary Science, Forestry.

MECHANICS: Mechanical Engineering, Civil Engineering, Electrical Engineering, Printing, Architecture.

HOUSEHOLD ECONOMICS. INDUSTRIAL JOURNALISM. Short Courses in Farming, Dairying, Cooking and Sewing.

Send for new catalogue.

Address PRESIDENT H. J. WATERS, Manhattan, Kan., Box E.
(Correspondence Courses Offered)

If You Desire to Be a Good

Stenographer or Bookkeeper

Write to us for "Free Information." The court stenographer at Leavenworth is from our college. Address:

Nevada Business College
NEVADA, MO.

KANSAS WESLAYAN BUSINESS COLLEGE

THE EFFICIENT SCHOOL FOR BANKS AND RAILROADS.

Furnishes more Bankers, Civil Service help, Commercial Teachers, R. R. Stenographers, and Telegraphers, than any other school. U. P. contracts to take all our operators, and allow salary while learning. We guarantee position for complete course or refund tuition. Twenty instructors, eighteen rooms, one thousand students. TERMS REASONABLE.

NEW FEATURES—Farm Accounting, McCaskey Register, Wireless Telegraphy. Write for catalog and Free Tuition Prize Offer. No agents out to get you to sign.

Address, T. W. ROACH, Pres. 201 S. Santa Fe, Salina, Kans.

WASHBURN COLLEGE TOPEKA KANSAS

"Doing Well All It Undertakes"

COLLEGE, LAW, MEDICINE, ENGINEERING
MUSIC, ART, ACADEMY

Fall Term Begins September 12. Catalog On Application

CAMPBELL COLLEGE, Holton, Kansas

"A School of Ideal Enrollment for Best Results."

404 total enrollment for 1910-11. Students enrolled from 10 states and 36 counties of Kansas the year. Come join our splendid "bunch" of young men and women. College opens Sept. 9th.

T. D. CRITES, President, W. S. REESE, Dean

Please mention this paper when you write.

CRESCENT COLLEGE AND CONSERVATORY

A girls' boarding school. Private and select. On top of the Ozarks, at Eureka Springs, famous health resort. Climate unsurpassed and suitable to students from North and South. $300,000.00 stone building. Fireproof. Rooms with private baths. Electric elevator. Preparatory and Junior College courses. Accredited with Vassar, Wellesley, Smith, et al. Advanced Conservatory of music, Art, Expression, Domestic Science. Out-door recreations emphasized. Horseback riding a special feature. Students accepted only upon formal application with references furnished. For Catalog address

Crescent College and Conservatory, Dept. E., Eureka Springs, Arkansas

---

ST. JOSEPH BUSINESS UNIVERSITY

In new home. Fine equipment. Thirty-second year begins September 4th.

Business and Stenographic Departments in charge of experienced teachers. Individual instruction. Graduates placed in good positions. Highest endorsements. Opportunities to earn expenses. New catalog and information free. New term begins Sept. 4. Write now.

E. E. GARD, Prin., Dept. C. ST. JOSEPH, MO.

ATCHISON BUSINESS COLLEGE

In selecting a school, look into our claims. Our courses of study are the equal of those of any other school. Special course in Farm Accounting and Agriculture. Write for catalog today to

A. F. HECK, President, ATCHISON, KANSAS

ST. JOSEPH VETERINARY COLLEGE

Reorganized to comply with rules of U. S. Dept. of Agriculture. Under new management, complete equipment, 3 year graded course. A paying profession that's not overcrowded. Catalog free. DR. DAVID G. MOSERLY, Dean, Dept. B, 7th and Sylvanie, St. Joseph, Mo.

ENTRIES FOR ST. JOSEPH LIVE STOCK SHOW CLOSE 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

KANSAS FARMER EDITORIAL

With which is combined FARMER'S ADVOCATE, established 1877.
Published weekly at 625 Jackson St., Topeka, Kan., by the KANSAS FARMER COMPANY.
ALBERT T. REID, President. J. R. MULVANE, Treasurer. S. H. PITCHER, Secretary.
Edited by T. A. BORMAN and I. D. GRAHAM.
CHICAGO OFFICE—First National Bank Bldg., Geo. W. Herbert, Manager.
NEW YORK OFFICE—41 Park Row, Wallace C. Richardson, Inc., Manager.
Entered at the Topeka, Kansas, postoffice as second class matter.

SUBSCRIPTION PRICE—$1.00 per year; $1.50 for two years; $2.00 for three years. Special clubbing rates furnished upon application.

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

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

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.

TEN UNDUE CRITICISM.

editor has received a letter crit- the Kansas State Agricultural because its claims for the anti- lera serum are not substantiated results obtained from the use of m, and criticising Kansas Farm- recommending its use. There is era remedy today known so ef- as a preventive as the serum be- le by the Kansas Experiment Sta- d the stations of other states. ave been made sufficient to estab- use as the best treatment. To mplaint no particular attention be paid, except that the complaint al of numerous criticisms against rice and teachings of agricultural and experiment station work- d it is of this criticism in general e will speak. The fact is that the gs and practices emanating from stitutions are not infallible. So human beings are at the head of institutions, there will be error. s to be criticised, but with reason, nsas Farmer will take cognizance r and reserves its right to criti- Farmers who are the beneficiaries ally of agricultural experiments achings have a right to criticise bly and justly, but in the great y of instances he will, if fair, ause to commend rather than find

the agricultural colleges and ex- nt stations are the great educat- e most important factors in the ement of all agricultural pursuits, onger a question for argument. The rmers feel the need of and recog- e advantages of these two great tions in their business, and are most frequent to call for assist- This is proof sufficient of the of the college and experiment n. There are numerous other evi- of very large benefits emanating these institutions. Many of the t-day practices which are regarded nd are the fruits of the investiga- through the experiment station g forgotten or not thought about.

farmer cannot well afford to do rn experimenting. Experiment is rpose of the Agricultural College xperiment Station, and the facili- he money and the brains are at mmand of what may seem the need institution's constituents. Sound ples, as a rule, emanate from the mental work and investigation. The of application of these principles and very often does, vary with ular sections. Where the applica- n be made specific, as it sometimes ere is nothing left for the farmer follow instructions. Where specific ation cannot be made, it is the part e farmer to know the principle and out the application. If in working e application, failure results, the ple still may be right. It is the of every farmer to make use of his ltural college and experiment sta- By so doing he will learn that can be of great benefit, and know- em better, will appreciate them the

Agricultural College and Experi- Station are manned by conscien- hard working, trained men—every specialist in his line, and who in every instance has consecrated his the great work of education. In instances these same men could much more money on their own or in commercial enterprises. But prefer to work for the public good, n so doing their efforts and inten- should not be spoken of lightly. give their constituents the most re judgment on the matter in hand. eir judgment announced is prema- the desire to help is the motive re- sible. Give the scientist the bene- the doubt. It is due him.

SIGN YOUR NAME.

veral inquiries of general interest this week been received, and an- s would have appeared in this issue ansas Farmer except for the reason the writer of each signed with ini- only. We can't give publicity to inquiries. Sign your full name—it not be printed, but we desire it for information. Will "J. F." of New- Okla., give his full name and get wers to his inquiries?

e successful farmer like the suc- ful manufacturer, is the one who s and profits from his trade paper.

ABOUT HOG CHOLERA.

The study of conditions which seem conducive to or result in hog cholera commands the attention of every hog owner. The Kansas farmer cannot afford the losses resulting from cholera. The records show that disease, chiefly cholera, killed 305,536 hogs in Kansas in 1909, and nearly 100,000 head in 1910 and the reports would indicate heavy losses this year.

The spread of the disease is controllable by employing the quarantine, the first essential in preventing the spread of any contagion. If the first farmer to discover cholera in his herd would promptly notify the live stock commission and set about getting and using the anti-cholera serum, the mortality would be greatly reduced. The serum prepared and furnished by the Kansas State Agricultural College is the most effective remedy known at this time. The serum is also a preventive—just as vaccination is a preventive against small pox.

Kansas Farmer has three times reprinted its article and illustrations on the use of and administration of the serum; the State Agricultural College has widely disseminated the information; the live stock commissioner has bulletined the state, and veterinarians throughout the state are thoroughly posted on its use. It would seem that the lack of knowledge of the existence of a cholera remedy was not now a legitimate excuse for large damage from the disease. It is the part of the farmer to avail himself of the remedy. No one can force upon him its use.

It is reasonably certain that the feed, the health of the hog and surroundings are conducive to or opposed to cholera. It is probable that in years to come the conditions favorable to the disease will be so well known that they can be avoided and less cholera will result. It is possible that proper feeding will result in warding off the disease. On this point the editor of Berkshire World says:

"In company with a prominent Agricultural college professor we recently visited an excellent herd of Durocs and were somewhat surprised to hear this Duroc breeder state that 'hogs will not contract cholera even though exposed to the disease, if they have been and are being properly fed.' We turned to the professor and inquired his opinion of such a statement, and he was very emphatic in stating that he was convinced that the gentleman was right. Both explained at some length that if hogs are properly fed that they are in a condition to withstand an attack of cholera, and although the cholera germ may be present in great numbers, the properly fed animal will not contract the disease, but will continue to thrive. The breeder stated that at present many hogs in his neighborhood were dying from what was supposed to be hog cholera, but that he had no fears whatever of his own herd getting sick. He further stated that last fall while fitting a show herd he discovered that his neighbor's hogs, which were running in an adjoining pasture with a wire fence between, were dying in large numbers, and his own hogs continued to run alongside of the sick and dying ones of his neighbor, and his hogs were never sick a day or showed any symptoms of disease."

FRESH AIR

Soon an army of boys and girls will again be in attendance on the country school. The strength of Kansas lies in the development of mind and body of these youngsters. Fresh air is essential to the development of each.

A few teachers know the importance of flooding the school-room with fresh air at recess time, but they are very few, says a Wisconsin bulletin. Occasionally a teacher is found who fully understands that human beings must have air in order to be healthy and well, and in order to have clear, receptive minds. These teachers, when they notice their pupils are dull, inattentive and listless, will call the school to order, open the windows, flood the room with fresh air, put the children through slight gymnastic exercises and then go on with their teaching. In such rooms greater progress is noticeable. In the efforts of a few public-spirited people to secure healthful surroundings for school children, much opposition is met.

Generally, the opposition proceeds from men who have no children to educate, or whose children have come through the perils of the unsanitary schoolhouse, and they argue, therefore, no perils exist. In their ignorance and conceit, they do not stop to consider that while they or their children have escaped, that scores of others have been injured, even made invalids, and not a few destroyed. The only hope of securing sanitary schoolhouses lies in educating the school children in regard to the matter, so that when they grow up and become the ruling factors in their community, they will naturally build schoolhouses which conform to the laws of health.

A nation wide campaign for better agriculture to double and treble the crops of staples from the same acreage within ten years while at the same time reclaiming millions of acres on abandoned farms has been launched. Behind the project which is described as "the most important economic movement in the world," are men of great prominence. Among them are President Taft, Franklin MacVeagh, secretary of the treasury; Champ Clark, speaker of the house of representatives; Cyrus H. McCormick, Dr. E. J. James, president of the University of Illinois; William Jennings Bryan and a number of railroad presidents. The result can be accomplished if the farmer, the man behind the gun in this instance, can be induced to cooperate.

The American Breeders' Magazine is an unique publication. The subject of breeding and heredify is at present receiving considerable popular attention and the presentation of its various phases in attractive and popular style, free from scientific mannerisms and technical expressions, and in plain, everyday English, is the purpose of the publication. The entire magazine is written by members of the American Breeders' Association, of which James Wilson, Secretary of Agriculture, is president.

FILLING THE SILO.

Kansas farmers are this year building a good many silos. The fact should be gratifying to those interested in agricultural affairs. The silo is not an experiment. The experimental stage in the use of silage passed 25 years ago. But upon the introduction of even a proven thing in a locality where the use of that thing is not thoroughly understood, mistakes will be made which are likely to result in a setback in the further immediate introduction of that thing. This may be —at least it could be so—in the use of the silo.

That a good silo is a money maker is no longer a question for argument. If it actually makes money for you, will depend upon the use you make of it. A first class structure will not permit the guarantee that the ensilage will be the best or that it will be fed at a good profit. The quality of ensilage will depend upon a good plant used for ensilage and upon proper filling.

Indian corn, well eared and cut at the dent stage makes the best ensilage. The more ears, the better the ensilage. In just the proportion that the ears are lacking the value of the ensilage will diminish from good ensilage.. Well headed kaffir corn will make ensilage, but not so good as well eared Indian corn. If kaffir corn is not well headed, or not headed at all, the ensilage will not have the feeding value of ensilage containing more grain. What is true of Indian corn is true of sorghum or any other crop capable of being ensiloed. As was the feed put into the silo from the standpoint of food constituents and value, such will be the ensilage.

The silo will preserve in best possible condition, practically without loss, that which you put in, and you cannot expect to take out that which you did not first place in the silo.

If immature crops are to be placed in the silo, do not cut when too green or when a maximum of sap exists. So to do would result in very sour, undesirable ensilage. Allow the immature crop to partially cure on the ground. Let it stand until the lower leaves burn slightly and until the stalks and leaves have given off some of the surplus moisture.

When filling the silo, tramp, tramp, tramp. Tramp the outer edges as well as it can possibly be done. While tramping keep the ensilage well distributed. This will have the effect of settling even ly and thoroughly and this is essential to the good keeping of the ensilage, whether you have stone or cement or any other kind of silo.

COUNTRY SCHOOL LAGGARD.

While you are thinking about the many, many things which combine to make a successful year on the farm do not fail to give the school of your neighborhood a share of attention. There are twenty million school children in the United States and half of them are in the rural schools. The rural schools, according to educators, have fallen behind the graded city and village schools and Kansas Farmer is sure to do this. It is your business to make the country school what it should be. It trains your boys and girls and nothing is too good for them.

Here is what State Superintendent Fairchild, of Kansas, says:

"Our schools as a whole have made remarkable and even phenomenal progress within the last ten years. City schools, high schools, colleges and universities have grown and developed at a wonderful rate, keeping close step with the progress that has been so notable in the material progress of our country during the last decade. Tne one laggard in the educational procession, however, is the rural school. That it has not made satisfactory progress is apparent to every student of educational affairs. While the best effort and the best brain of the nation has been devoted to the betterment of the high sch , college and university, the rural school during this same period has been sadly neglected."

A committee of the leading educators of the United States will investigate the rural school and suggest the needed improvements.

Prof. A. M. Ten Eyck, superintendent Fort Hays branch Agricultural Experiment Station, is the author of a valuable bulletin on grasses, just issued by the department of agronomy of Kansas State Agricultural College. The bulletin is No. 175, and Kansas Farmers urges every reader to send for it.

BUILDING STATE FAIR

Big Task Completed By Tax Payers of Shawnee County and Topeka Citizens

The people of Shawnee county and the tax payers of Topeka will during the second week of September realize their hope of many years, viz.; the establishing of a state fair in keeping with the importance of Kansas as one of the greatest commonwealths. To accomplish this the citizens of Topeka organized and incorporated. The Kansas State Fair association with an authorized capital stock of $200,000 and with a paid up capital of $125,000, every dollar of which has been expended in the improvement of magnificent fair grounds owned by Shawnee county and within a ten minutes walk of the capitol building of the state. In addition to this expenditure the county of Shawnee a year ago voted $50,000 to be expended by the county commissioners on the same grounds for permanent improvements. The last building erected from this money has just been turned over to the association and this act completes the equipment for the most beautiful fair grounds and provides the most modern and up-to-date plant in the middle west for the accommodation of a great state fair for Kansas.

The new buildings are commodious, convenient and permanent. No exposition buildings in the United States in any respect excel those of Kansas. The pictures herewith give the reader a good idea of their proportions and architectural beauty and when it is known that brick and cement are the materials used their permanency is apparent.

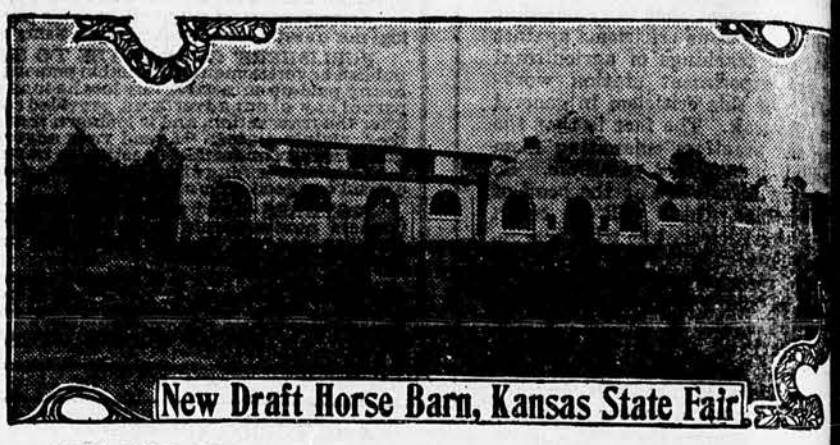
The transformation of the Kansas State Fair in the past 12 months from a fair grounds of a mediocre sort only to a strictly up-to-date plant is a marvel. The eagerness with which exhibitors are taking space and seeking entries is the only evidence required in support of the demand and the necessity and the appreciation for and of an exposition capable of exploiting agricultural Kansas and placing the state in a class with Iowa, Minnesota and Illinois.

* * *

Kansas was at one time the best advertised agriculturally of any state in the Union, and that advertising was due in a great measure to the efforts of the land departments of the various railroads of the state to induce immigration. This was augmented with a State fair that was held annually in Topeka peculiarly in the interest of the agricultural resources of the state. This state fair came to be looked upon as one of the big fairs of the central West, and ranked high in the matter of exhibits, amusements and attendance. Its annual expositions were given without state aid, but there was much encouragement from the railroads. The large land holdings of the railroads decreased, and their interest in the state fair diminished accordingly. Simultaneously came the dry years and consequent hard times and fire which destroyed the fair buildings. Under unfavorable conditions exploitation of the state's great agricultural resources was neglected until as above stated Topeka citizens and the tax payers of Shawnee county a few years ago put their shoulders to the wheel and actually built and created a great fair last year.

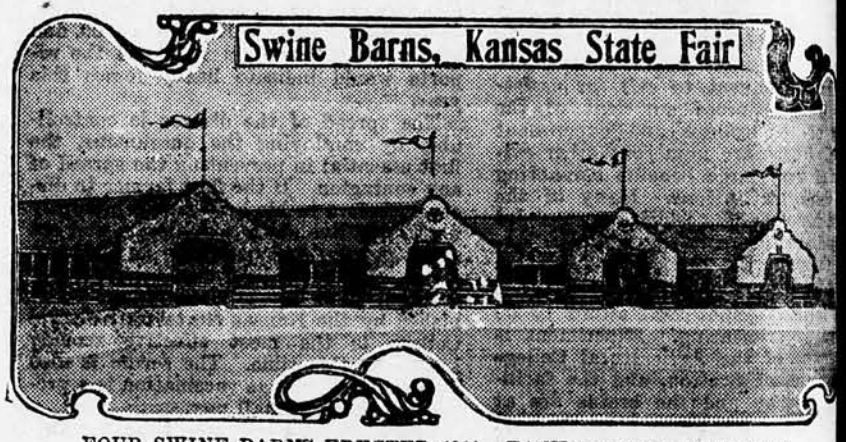
When the Kansas State Fair opens gates to the public September 11 five days of the biggest and best ever held in the State there will be casion for skeptics and friends alike open their eyes in amazement. The will be replete with solid information the producer, the business man, the nd the young. Its exhibits in the partments of live stock, cereals, machery and the many ther things that towards the advancement of the will be full to overflowing with the that the State has, brought to the

THIS BARN BUILT 1910 AND IS 156X230 FEET, WITH STALLS FOR 532 HEAD OF CATTLE. CONSTRUCTED OF BRICK AND CEMENT. MODERN THROUGHOUT, WITH TOILET AND REST ROOMS FOR BOTH MEN AND WOMEN.



THIS BARN IS 112X185 FEET AND HAS STALLS FOR 284 HEAD OF HORSES. CONSTRUCTED OF BRICK AND CEMENT AND MODERN THROUGHOUT. BUILT 1911 AND NEXT MONTH WILL BE USED FIRST TIME.

BUILT 1911 OF CEMENT AND BRICK, 100X112 FEET, AT COST OF $17,000. USED FIRST TIME NEXT MONTH.



FOUR SWINE BARNS ERECTED 1911. EACH BARN HAS 32 PENS. MODERN IN EVERY PARTICULAR.

* * *

In one department, that of horses, be found a bigger show than is usu collected for annual expositions of hor alone. The cattle entries promise to the big new building with its 500 st to its capacity. There will be acres farm and other machinery, and the m cantile and art displays will exceed limits of the building erected for th accommodation.

In the matter of attractions, the b that was to be had in the amusem world has been engaged. Regardless expense, contracts have been made for that can be crowded into five days pleasure. Liberati's noted band, acc panied by twenty grand opera stars, furnish music for the visitors to the that will inspire them with the thoug of the effete East and the Metropoli opera house, of which many have r but comparatively few have witnes

The evening performances by Libera band and corps of singers will be a feature, and to this program will added each evening Pain's gorgeous sp tacular fireworks panorama, "The Fall Pompeii," staged in the infield of race track by an army of people in h torical costumes. There are other varied attractions, such as the propo balloon race between the cities of Tope St. Louis, Kansas City, Salt Lake C and Denver. The usual clean, who some midway will be provided.

* * *

In short, the intention of the fair ma agement to get ahead of the processi to make a great big fair from the sta without waiting for it to grow gradua into the proportions contemplated, pla our fair three years ahead of the ga "We might just as well do it all at onc said a member of the directorate, "a give the people of Kansas a fair th they need not have to make excuses whenever they go to other states to vi their wife's folks."

PEDIGREE *VS.* INDIVIDUALITY

GRADE SIRES CANNOT IMPROVE LIVE STOCK

By G. E. DULL, Washington, Kan.

The question of the relative value of pedigree as compared with individuality is one that is quite often wrongly decided, both by the farmer and the professional breeder. Its solution is difficult and will be answered incorrectly, at times, by even the most highly trained specialist, as no one can tell definitely just how prepotent any certain animal will be until it has been thoroughly tried in the herd or flock. The ordinary breeder is very apt to pay too little attention to the pedigree in his admiration of the individual, while the specialist will often overlook the individual's faults in his efforts to secure an animal having certain highly prized blood lines.

A pedigree is the genealogy of an individual. It is usually considered as the names of the ancestors of the animal under consideration. Among the numerous ancestors will be found several animals of more or less uniform excellence of type. From these individuals of superior merit the pedigree receives much of its value. It is not so much, however, in the number of generations through which the ancestry can be traced to some distinguished progenitor as in the quality and character of the ancestry. The quality of the immediate progenitors is of the greatest importance, as those farther back have a smaller degree of influence.

The longer the line of descent in unbroken succession through ancestors of uniform excellence, the greater is the probability that that excellence will be transmitted in turn to the succeeding generations. It is not the length of the pedigree that makes it valuable, but the uniformity and excellence of the individuals included in it. Four or five top crosses of the rarest merit are of greater value than fifteen or twenty of ordinary merit, and the farther back the genealogy of more uniform ancestry the better, but the more immediate the ancestry the more important the quality becomes. Immediate parents contribute one-half the pedigree inheritance of the individual, while the grandparents contribute but one-eighth and the farther removed the good or evil influence any ancestor had, the less will be its effect.

Desirable as a pedigree may be that connects our horses back several generations with such noted sires as Jean Le Blanc, Coco, or Brilliant, it is, however, of greater importance to know that our horses are good individuals and that their ancestors for the last few generations were of surpassing excellence. If our own animals are good and a few recent topcrosses have been uniformly of the same character, the progeny may be expected to be satisfactory, while on the contrary if the sire and dam, or the immediate ancestry, are poor we may show as many lines as we like to some great ancestors twelve or fifteen generations away and it will not wipe out the stain of recent defective crosses.

No pedigree is a good one that does not produce good animals and no pedigree should be prized above any other if it does not usually produce better animals. A failure in this test proves it injurious to the stock breeding industry. True aristocracy brings superior merit.

Attention should be paid not only to these qualities apparent in the animals selected for the herd, but also to those prevailing in the breed from which the animals are descended, as they will be

(Continued on page 7.)

SOIL MAINTENANCE

Two Methods Can Be Employed To Maintain Phosphate of The Soil

The farmers of Kansas last year bought 4,000 tons of commercial fertilizers of different kinds, each man buying to supply that element in the soil which he needs in the production of those crops he is growing. Recent letters indicate that the interest in fertilizers is manifest throughout eastern Kansas, and Kansas Farmer, beginning with this issue, will give attention to this subject. The following from a Wisconsin bulletin will be of interest:

Two general methods of maintaining phosphates of the soil can be used by farmers.

1. The purchase of feeding stuffs containing sufficient phosphorus to balance the loss of this element in milk, grain, and stock sold.

2. The purchase of phosphates in the form of fertilizers.

If bran is the chief concentrate purchased, the phosphate can probably be largely retained. If other concentrates, such as oil meal or gluten meal, which contain very much less of phosphates, are used, then the total supply of phosphate of even a dairy farm will be decreased. The decrease on a farm from which grain or hay or tobacco is sold will be much greater.

It is perfectly possible to maintain the phosphorus by the purchase of fertilizers. There are several different forms of fertilizers on the market containing phosphoric acid in different amounts and having different degrees of availibility, and selling at various prices. The following three are the most important from the standpoint of the farmer:

Ground steamed bone meal containing about 28 per cent of phosphoric acid and costing from $22 to $25 per ton in Chicago, is a form to be recommended for use either on marsh soils or on upland clay loam soils that have become acid, and applied either on clover sod or with manure. It becomes available more rapidly than the raw rock phosphate. When used to supplement manure in an ordinary four-year rotation, it should be used at the rate of from 200 to 300 pounds per acre once in the rotation.

GREENHOUSE TEST SHOWING NEED OF PHOSPHATE. K REPRESENTS POTASH; P, PHOSPHATE; N, NITROGEN. IT WILL BE NOTED THAT IN EVERY CASE WHERE PHOSPHATE WAS USED, THE CORN WAS LARGE AND THRIFTY.

Raw rock phosphate, the nearest source of which is the mines of Tennessee, contains from 23 to 28 per cent of phosphoric acid. This form of phosphate is, by all means the cheapest form on the market, the phosphoric acid it contains costing only about 2 cents per pound, while that in either bone meal or acid phosphate costs approximately 5 cents a pound. The phosphoric acid in this form, however, is not so readily available as in either of the other two forms, and consequently it is necessary to use a much larger amount and apply it in connection with organic matter, the decomposition of which will render the phosphoric acid more rapidly available.

On clay loam soils which have been considerably exhausted by a number of years' cropping without proper manuring, or on the very acid peat lands, the first application should be at the rate of half a ton per acre. After that, if applied once in the rotation with the manure, at more soluble in the mosture of the soil the rate of 100 pounds per year, it will in all probability maintain the phosphorus of either of these two classes of soil. Where no manure is used, but green manuring crops are turned under to maintain the organic matter, and clover or other legumes used to supply nitrogen, the rock phosphate can be used as a source of phosphoric acid, using at the rate of 100 to 150 pounds annually in that case.

This material is an excellent absorbent and one of the best ways of handling it is to use it in the stable as an absorbent, so that it becomes well mixed with the manure. Use it at such a rate that the above stated amounts are applied per acre.

Acid phosphate is prepared from rock phosphate or steamed bone by the mixture of approximately equal weights of the rock phosphate and sulphuric acid. The sulphuric acid reacts on the raw phosphate so as to change it into a form and hence more rapidly absorbed by the roots of growing crops. On this account a smaller amount will be necessary at the beginning, since it contains only approximately half as much phosphoric acid per ton. It is necessary to use more of the acid phosphate than of the rock phosphate after the preliminary treatment.

On those fields where the organic matter is rather low and it is desired to learn at once whether or not phosphates are lacking, this form is an excellent one to use. It should be spread broadcast at the rate of 300 to 350 pounds per acre and worked into the soil in preparing the ground for planting. Even without manure it will give a direct answer to the question as to whether the land is in need of phosphate treatment.

Results secured by Director Thorne of Ohio and Dr. Hopkins of Illinois indicate, however, that rock phosphate, when properly incorporated with sufficient organic matter in the form of stable or green manure, is the cheapest source of phosphoric acid. In purchasing the half ton of rock phosphate recommended, the farmer should consider that he is merely replacing what has been removed from the soil in a number of years previous cropping, so that the cost of maintenance is merely the cost of from 100 to 150 pounds of rock phosphate annually thereafter. With the present prices of rock phosphate, this would mean that an application of 50 cents worth of phosphate annually per acre would maintain the phosphate supply of the soil, where moderate amounts of manure are used in a rotation of from three to five years. In this condition it would be possible to maintain the fertility of the soil on a farm from which the yield of from one-fourth to one-half is sold, provided clover or some other legume is used for maintaining the nitrogen supply. In all probability the price of phosphate will gradually advance during the next few years, as the demand for it increases, owing to more knowledge as to the extent of its requirement.

Why Large? Why Small Plant?

By W. C. PALMER

The surface two inches will dry out. In the case of four inch plowing, that will leave only two inches of moist plowed soil to feed the plant, while in the case of eight inch plowing there will be six inches of moist plowed soil, or three times as much to feed the plant. Then again the lower four inches of the deep plowing will contain more than twice as much moisture as the lower two inches of the shallow plowing.

Why Plow Deep?

1. Plant seed in the soil turned by the plow—the seed bed.
2. Deep plowing takes in more moisture when it rains.
3. Holds moisture better.
4. The crop does not suffer as much from hot winds.

How to Plow Deep.

Follow binder with disc. This, in loosening up the surface soil, cuts off evaporation and also kills weeds that take lots of water. This will hold enough moisture so the soil will pulverize thoroughly which is the main purpose of plowing. Plowing the soil dry, is a good deal like kneading the dry flour instead of the dough.

When to Plow Deep.

In the fall—the earlier the better—or when summer fallowing.

How to Bring Moisture to the Plant.

The moisture moves through the compact soil, so to get moisture to move from subsoil into plowed soil, pack it with a subsurface packer, or with a disc, setting the discs straight, and the same day as plowed. The point is to pack the lower part of the plowed soil and not to pack the surface which breaks up soil granules and makes it easier for the soil to drift. And then again the surface soil is wanted loose.

How to Keep Moisture From Evaporating.

Loosen surface soil with disc, harrow or weeder as the moisture cannot move up through loose soil. In the fall use the disc; it makes a mulch and also leaves soil rough.

How to Keep Soil From Drifting.

Keep it full of grass or alfalfa roots and manure. Plow under green plants. These all hold soil grains together in granules just as a band holds a bunch of shingles together. Harrow soil when moist on surface. The disc causes less drifting than the harrow. Do not use roller or planker—they break up the little lumps on the surface into fine soil which can be blown away and they pack the surface soil which is wanted loose.

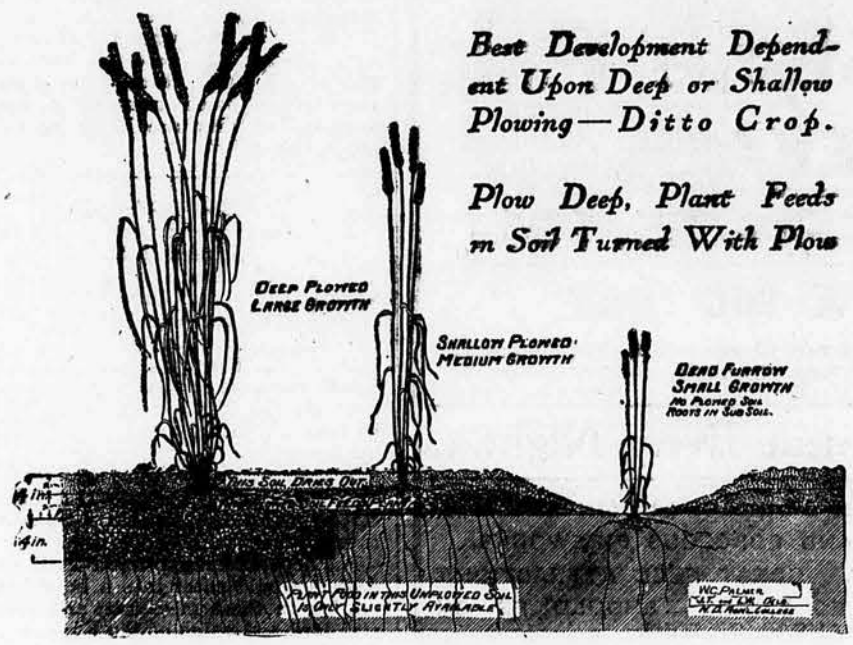
In case the soil is already drifting, spread straw thinly over the field. Better yet, manure, spread thin with a manure spreader.

Caution.

In case the land has been plowed shallow and it is desired to plow several inches deeper than formerly, it is often well to bare fallow the land, as that gives more time for the turned up subsoil to be acted upon by the weathering agencies which make its plant food available. If a great deal of subsoil is brought up at once the plant will necessarily have to do much of its growing in this subsoil; if it has not been up for some time the crop may not do so well on it. In case of fall plowing it is best to go only one or two inches deeper each time; however, if the land is not disced after the binder it will not, as a rule, be possible to go any deeper than the land was plowed before.

Summary.

To make a good seed bed, rotate the crops, follow binder with disc, plow early and deep, pack or disc, with discs set straight, the same day, and harrow or disc early in spring.

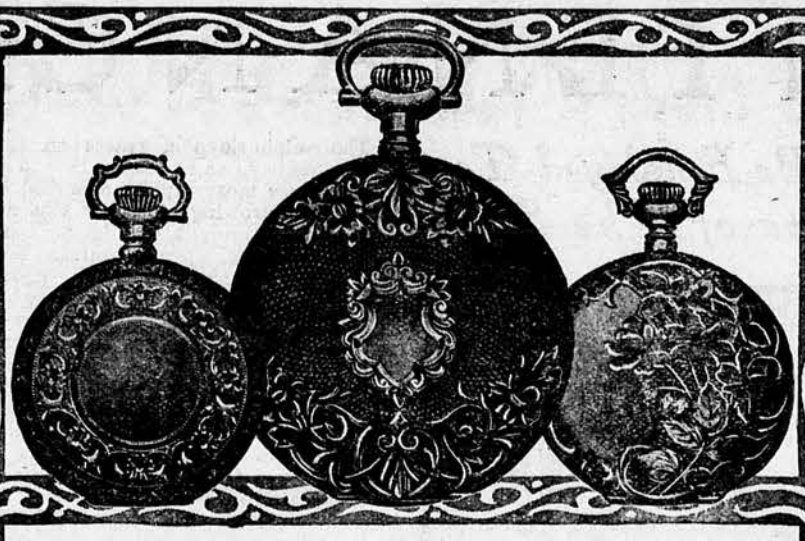


Best Development Dependent Upon Deep or Shallow Plowing—Ditto Crop.

Plow Deep, Plant Feeds in Soil Turned With Plow

The agricultural school of North Dakota has been conducting this year a red-hot "deep-plowing" campaign and the interest aroused in better cultivation of the soil has exceeded that of the most hotly contested political campaign. Every conceivable means has been employed to get before the farmer the advantages of deep plowing. Hundreds of farmers institutes were held, thousands of columns were printed in the country newspapers, business men inclosed with their letters and in other ways distributed printed matter, and in every section of the state thousands of colored posters proclaiming the advantages of deep plowing were tacked in conspicuous places. The accompanying illustration was the backbone of the campaign. The facts developed by it were the subjects for discussion. The boiled-down arguments are given herewith.—Editor.

Farmers who this year face the problem of filling the silo for the first time will find valuable suggestions in a bulletin on "Filling the Silo," just issued by the Iowa Agricultural Experiment Station. It was written by Prof. W. J. Kennedy, head of the animal husbandry work of the station, and is based on years of experience with silos and very extensive investigations among feeders. It may be secured by writing the Iowa Experiment Station at Ames for it.



Gold-Filled Watch Cases That Are Dependable

YOUR representative jeweler will show you a wide range of *styles* in "Crescent" and "Jas. Boss" Gold Filled Watch Cases.

His stock is selected from more than *three thousand* exclusive designs, in all sizes for ladies' and men's watches.

Beautiful engraved patterns—Engine-Turned effects—and exquisitely finished Plain Polished cases.

While you are examining the cases note the *depth of the engraving*. There is your plain proof of the thickness of the gold on the "Crescent" and "Jas. Boss" goods—which means a lifetime of wear and service.

A cheapened gold-filled watch case can never be engraved deeply—because the engraving tool cuts through the thin film of gold and exposes the composition metal underneath.

Yet you will find such trashy cases stamped "guaranteed for 20 years"—and there is no way that you as the purchaser can be protected against these meaningless "guarantees."

Except this—insist on getting a "Crescent" or a "Jas. Boss" case, so that you can be *sure* that the *values* are right.

You will know these cases by the trademarks illustrated on this page. These marks are standard with the fine jewelry trade and have been for fifty years.

TRADE MARK JAS. BOSS GOLD FILLED Reg. U.S. Pat. Off.

TRADE MARK CRESCENT GOLD FILLED Reg. U.S. Pat. Off.

The Keystone Watch Case Company
Established 1853
PHILADELPHIA

Kansas State Fair
TOPEKA
Sept. 11, 12, 13, 14, 15, 1911

EVERY DAY A BIG DAY

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 ENJOYED BY EVERY KANSAS CITIZEN.
SEMI-CENTENNIAL CELEBRATION, TOPEKA, SAME DATES.

T. A. BORMAN, Pres. **H. L. COOK, Sec'y**

We can furnish or make any parts for guns, rifles, revolvers, bicycles and motorcycles. Send us your work or write for prices. Expert repairing our specialty.

Graf Gun & Cycle, Works 2207 East Ninth St. KANSAS CITY, MO

CORN HARVESTER

Something new; cuts complete shock without stopping team; makes shock row 60 to 80 rods apart and leaves the land clear for seeding or plowing; just what the farmer has been needing; sold direct; they are guaranteed; price $20; write for circulars. CORN KING HARVESTER CO., Box 1522, Salina, Kan.

When writing advertisers, please mention KANSAS FARMER.

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

THE FARM

Dry-Farming School.

A chair of dry farming in the Panhandle Agricultural School has been created by the Oklahoma State Board of Agriculture. Prof. Payne, formerly of theDry Farming tCation of Colorado, will have charge of the experimental and demonstration farm which is carried on in connection with the school, and will teach dry farming doctrines in the school room and put the principles into operation on the farm.

Skim-Milk Paint.

The following receipt for making skim-milk paint is from the Scientific American: Stir into one gallon of milk about three pounds of Portland cement and add sufficient Venetian red paint powder to impart a good color. Any other color may be used in place of the red. Mix only as used, and keep thoroughly stirred. The milk will hold the paint in suspension, but unless stirring is continued frequently, the cement, being the heavier, will settle to the bottom.

Agriculture for Women.

A course intended to give to woman not only a knowledge of home economics, but a thorough training in those farm practices in which women are particularly interested, has been created at the Missouri State Agricultural College. The course includes farm crops and soils, dairying, botany, gardening, care of flowering plants and fruit culture, besides the usual studies that have heretofore been included in the regular home economics course. It is expected that this course will prove popular with a large class of young women who intend to spend their lives on farms or in teaching in connection with agricultural schools.

Hog Prices Highest Since 1910.

The price of hogs is now higher than for any period since the phenomenally high prices in the spring of 1910, nearly a year and a half ago, when the price broke all records in reaching $10.25 a hundred.

According to Charles Wolff, of the Wolff Packing Co., the price may be expected to go higher toward fall, although he thinks the advance will be comparatively gradual, reaching a top price of perhaps $8, or maybe a little higher, late in the fall.

"I think the tendency will be upward until fall," said Mr. Wolff. "The market is apt to fluctuate up and down during the time, but the tendency will be toward higher prices, I think.

"The price paid for hogs now marks the highest paid since the high prices in the spring of 1910, when the highest price ever known was paid on the Topeka market. I think there is no chance of hogs going much over $8 a hundred pounds, but they are likely to be that much this fall."

Egg Improvement.

At a meeting held with the car-lot egg shippers of Kansas anl representatives of the state board of health, it was agreed that before June 1 all eggs sold or offered for sale should be on the "loss off" basis. In other words, that on or before June 1 every dealer in this state should purchase eggs only after they have been candled, and all eggs unfit for food be thus eliminated and the loss sustained by the seller.

Warning placards were sent to dealers and posted throughout the state, and the inspectors of the department instructed to vigorously enforce the law.

The department expressed the hope that dealers would enter into a hearty co-operation in these measures, and thus the standard and value of the Kansas egg be thereby increased.

Suggestions for improving the quality of the eggs were:

Provide plenty of clean, dry nests for your hens.

Gather the eggs daily in cool weather and twice a day in hot or rainy weather.

Do not wash eggs. Use the dirty and small eggs at home.

Keep your eggs in a cool, dry place, which is free from odors.

Don't sell eggs which have been in an incubator.

Market your eggs daily if possible; if not, every other day.

Don't sell eggs which are found in a stolen nest.

Keep the eggs out of the sun when taking them to town.

Don't keep eggs near oil, onions, etc.; they absorb odors.

AUTO TIRE PUNCTURES REPAIRED IN TWO MINUTES

You need lose no time on the road through punctures if you will carry a

COPE REPAIR KIT

Punctures permanently repaired in two minutes, with the Cope Cinch Button Repair Plug—pure rubber made over a soft metal core. Works as shown at the left.

1st. Cut puncture into a round hole; (special tool provided.)

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

3rd. Insert Cinch Button Plug, and

4th. Squeeze together with Cinch Pliers.

All done in a jiffy—a better patch than possible to be done the old way. No cement, no gasoline, 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 yourself 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

50,000 MEN WANTED
In Western Canada

200 MILLION BUSHELS WHEAT TO BE HARVESTED.

Harvest Help in Great Demand

Reports from the Provinces of Manitoba, Saskatchewan and Alberta (Western Canada) indicate one of the best crops ever raised on the continent. To harvest this crop will require at least 50,000 harvesters.

LOW RATES WILL BE GIVEN ON ALL CANADIAN ROADS.

Excursions are run daily and full particulars will be given on application to the following authorized Canadian Government Agent. The rates are made to apply to those who wish to take advantage of them for the purpose of inspecting the grain fields of Western Canada, and the wonderful opportunities there offered for those who wish to invest, and also those who wish to take up actual farm life. Apply at once

CANADIAN GOVERNMENT AGENT
125 W. Ninth St., Kansas City, Mo.

PRODUCTION WITH PERMANENCY
Is The Agricultural Problem of Today

Permanent fertility means maintaining the three necessary elements of plant food.

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 Rock Dept. Columbia, Tenn.

WATER WORKS $37.50 COUNTRY HOMES

Save dealer's profits by buying at Manufacturer's prices. Any one can install in any house without trouble. We also sell DIRECT, all kinds of

PLUMBING GOODS

Pumps, Windmills, Etc. Only finest goods shipped strictly under a MONEY BACK GUARANTEE. Write for our valuable Big, Free Book. It tells all.

MO. WATER & S. S. Co.
702 W. 6th St., St. Joseph Mo.

S. C. Buff Orpingtons

I won first on pen at Topeka 1911 against 12 competing pens; also won at other leading shows of the country. I have the large, heavy-boned kind. Send for 1911 mating list; am ready to sell you eggs for hatching.

EVERETT HAYES, R. 4, Hiawatha, Kans.

KANSAS FARMER UNTIL JANUARY 1, 1912, FOR 25 CENTS.

Special Trial Rate.

This rate to new subscribers only. For 50 cents we will send KANSAS FARMER until January 1, 1912, to two new subscribers and send the person who sends in the names a set of beautiful postcards. These cards are not cheap, but just as good as you paid 5 cents apiece for them. Address KANSAS FARMER, Topeka, Kan.

Homestead Opportunity.

swering Fred Buck, Chetopa, Kan.: stration for Rosebud and Pine Ridge, D., reservations, October 2 to 21. ring, October 24, at Gregory, S. D.

Stump Blasting.

e problem of stump removal is an recurrent one when farmers are de- ing new territory or are endeavor- to utilize the entire acreage of their s. Investigations of the use of mite for stump removal show that is fully as economical as any other od, with the possible exception of small stumps, and for large stumps advantages in its use are very great. e process is very simple. A hole is d underneath the stump with a large auger, the hole being usually at an e of 45 degrees to the ground. A mite cartridge is primed with a ful- te cap, which has been crimped onto end of a fuse, and the cartridge is shoved down to the bottom of the and tamped in with some damp earth. atch is applied to the fuse, which is enough to give the farmer plenty ime to get away for 150 feet or so, shortly after there is a boom, and the p is blown clear of the earth and tered into fire wood. Investigation he hole shows the roots torn loose the earth for a radius of about two is from the stump, and nearly all the that adjoined the stump roots has n back into the hole after the blast. stump parts themselves are found from dirt, as the blast clears them completely. The roots are left in shape that a few blows with an ax free every one of them, so that a can be run over the old location he stump.

Harvesting the Winter's Feed.

his is a year when extra pains should taken in the saving of feed, partic- rly in shocking corn fodder and in ing kaffir and sorghum. So much hese forages will be cut while imma- e that great care must be taken to vent great loss from heating and rot- g. In the first place, do not cut while of sap. Allow the fodder to cure tially while standing. Place Indian in small shocks, giving the shocked a good chance to perfectly cure. not allow the small shocks to stand the winter, because in small shocks loss from fall and winter rains and ws is too great. After the fodder cured in the shocks, the best plan is haul to the barnyard and stack into d big ricks. This method will provide aximum of feed from the corn fod- .

n the case of sown sorghum or ffir, cut with a mower, let it dry well the ground before placing in cocks, then place in large cocks. The cock taining not more than a half dozen kfuls will rot into manure before the ding season is half over. Have the ge well dried and pile at least one d load into a cock. Stack the cock. t a man on the pile after the founda- n has been laid and have him stack ll, keeping the middles full and doing good job at tramping. Top the cock ely and tie down so that top will not w off. Comb down the sides with a oden rake.

f the corn is green and immature, and orn binder is used in cutting, do not the bundles. Let the machine throw the untied bundle and follow the nder, spreading the bundle out and ing the stalks a good chance to dry fore setting up in shocks. The same ll apply to kaffir or sorghum. The eat binder is often used in cutting wn sorghum or kaffir, and with suc- s on mature crops. Use a mower this ar and let the feed cure well on the ound. Green and immature sorghum kaffir will surely heat and rot in the ndle.

This will appear to many farmers as lot of work to be expended in the ving of roughage, but this editor will arantee that it will pay to exercise l the precaution necessary to save this ar's feed in the best condition. At ast 40 per cent of the feeding value our roughage is lost in one way or nother, and we can't afford this loss this ear. These directions will help to cut own this loss.

Ground Limestone as Fertilizer.

A southeastern Kansas subscriber akes inquiry regarding raw ground mestone as a fertilizer. The applica- on to soils of lime in one form or an- her dates back thousands of years. here are writings in this country as arly as 1818 which describe the benefits erived from the application of lime. One writer advises that from one-half a ton to one and a half tons of lime per acre applied every five or six years is sufficient. Another states that the quantity of lime applied depends upon the degree of sourness, and this will again vary with the wetness of the land.

If soils which are quite acid and have not previously been limed are to be seeded with the intention of leaving them in grass for several years, as high as two or three tons of lime per acre may sometimes be advisable.

If the lime is to be applied in large quantities probably the cheapest form is the ground limestone, which is nothing more than finely pulverized limestone rocks. This can be used to great advantage. The raw ground limestone should be ground as fine as possible. It is known that the particles are not as fine as the burnt limestone, and for this reason they are probably not so active chemically, but their effects are more lasting.

This form of lime is now being put on the market, and is especially prepared for agricultural purposes. It can be secured at a price of $1 to $1.25 per ton in car lots at the crushers.

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.

3 Crops 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

The rolling, well watered, well drained, productive lands of the Mississippi Farms Company combine the diversified agriculture of the Middle West with the very profitable truck and fruit farming of the Gulf Coast.

"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 Gulfport, 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 railroad so 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 can buy your lumber at low rates. We are only 24 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 demonstration 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, cowpeas, 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 cattle, hogs and poultry. 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 crop with which you are unfamiliar.

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

Here upon our land is the farmer's future; here is his fortune. We want the right type of settler. We are in no hurry 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 settler is entitled to, but we have not lost by it. To the man who has little capital and an earnest desire to own a farm, we present a splendid opportunity.

Full details concerning the country, climate, soil, schools, results from actual settlers, etc., are contained in our booklet and which we will gladly send you if you are interested.

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.

Ask any of the following banks and bankers if we can and will do what we promise:
Geo. M. Reynolds, Pres. Continental-Commercial Bank of Chicago, 2nd largest bank in America.
Iowa Nat. Bank, Des Moines, Iowa.
1st Natl. Bank, Gulfport, Miss.
Peoples Bank, Wiggins, Miss.

MISSISSIPPI FARMS CO.,
1162 Commercial National Bank Bldg., CHICAGO, ILL.

CUT OUT THIS COUPON.
Mississippi Farms Co.,
1162 Commercial Bank Bldg., Chicago.
Please let me know more about your farm proposition.
Name .....
Address .....
City..... State.....

Pedigrees vs. Individuality

(Continued from page 5.)

sure to show in the progeny. For this reason never use an animal, however excellent unless it is well-bred, that is, for several generations back possessed in a high degree of the characteristics it is desired to obtain.

In our ordinary breeding operations the male should be as high bred as possible to insure greater prepotency in transmitting his qualities to his offspring. Highly bred males of the type desired will stamp their own characters upon the offspring more certainly and uniformly than those of less intense breeding. Even for the grading up of the common horse stock, it is necessary to select well-bred sires of merit. The use of grade sires never can improve the live stock of any community.

Hyposulphite of soda is recommended highly as a sure cure for chicken cholera. A tablespoonful dissolved in a half gallon of water is the right proportion. It will act as a preventive and probably cure cases not too far gone with the disease. It should be given in place of the ordinary drinking water, but can be used in the soft food as well. Avoid feeding corn as much as possible during the hot weather, allowing the fowls bran and oats, as the principal food, with a shady grass run thrown in. Cholera won't thrive under such conditions.

A PURE BRED COCKERAL 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 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 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.

Bovee Furnaces at Manufacturer's Prices

Saves 50 per cent of cost; 40 per cent of fuel
Most Durable, Most Economical Furnace Sold
Has a Perfect Ventilating System for Every Part of Building

RESIDENCE HEATING PLANT

Hot air registers in five rooms, cold air return in two rooms. 40 in. Furnace, 20 in. Fire Pot, 28 in. Combustion Chamber, 10,000 cubic ft. Heating Capacity.

Special Price, $65.00

CHURCH AND SCHOOL HEATING PLANT

One large hot air, two cold air registers, 54 in. Furnace, 32 in. Fire Pot, 40 in. Combustion Chamber, 40,000 cubic ft. Heating Capacity.

Special Price, $95.00

Special prices on large heating plants for any style church or building.

Horizontal Furnaces with large doors at same prices as Economy for equal heating capacity.

BASEMENT VIEW OF 1 RUN PLANT. BEST WAY TO HEAT A ONE ROOM BUILDING

BASEMENT VIEW OF 3 RUN PLANT, FOR RESIDENCE, CHURCH OR SCHOOL HOUSE

Bovee Grinder & Furnace Works, 198-8th St. Waterloo, Ia

Quit Doing This → Get a GOOD Spreader

EVERYONE knows that if soil is not fertilized it will soon wear out. The barren condition of thousands of farms in this country proves this statement. A large percentage of this number could be improved if manure were spread judiciously.

Field experiments prove that eight tons of manure evenly spread are as good as twice that number spread in a haphazard way. Hand spreading requires at least twenty loads to cover an acre. With a manure spreader, eight loads will cover the same amount of ground more evenly, but—

Your problem of soil fertility is only half solved when you decide to get a manure spreader. The other half—of equal importance—is in deciding just which spreader is best for you to buy.

If you investigate thoroughly and decide carefully, you will select a spreader that thousands of other progressive farmers are having great success with—one of the

I H C Manure Spreaders

The simple design and unusual strength of all working parts of I H C Spreaders account for their long life and light draft.

The method of transmitting power from the wheels to the beater is simple and direct. There are no unnecessary parts to wear. The beater is large in diameter and the teeth are long, square, and chisel pointed. By using this style of tooth, the manure is thoroughly pulverized and is thrown out before it wedges against the bars. By using a square tooth, rimming of the bars is overcome.

The apron is supported by steel rollers and the slats are placed close together, so that manure does not sift down and interfere with the movement of the rollers. The steel wheels have ample strength to carry many times the weight they will ever be called upon to bear. The rims are flanged inwardly to prevent cutting and rutting of meadows and accumulation of trash. Z-shaped lugs give the wheel a practically continuous ground-bearing surface and do not jar the machine to pieces. There is no reach to prevent short turning.

In the I H C line, you have choice of these three famous styles—

Cloverleaf Corn King Kemp 20th Century

All are simple, strong, and durable—all are easily and instantly adjustable to spread light or heavy, as the soil requires, and all three are made in sizes suitable to any size farm. See the IHC local dealer—and get catalogues from him, or, write direct.

I H C Service Bureau

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

INTERNATIONAL HARVESTER COMPANY OF AMERICA
Chicago (Incorporated) U S A

Most Powerful, Safest Fungicide For Fruit Trees, Foliage, &c.

Here is a fungicide that means certain death to all insect pests and a positive preventive against Scale, Apple Scab, Blight, Brown Rot, Grape Black Rot and Downy Mildew. Practical fruit growers, farmers and nurserymen have proven Red Seal Lye to be much superior to the Bordeaux Mixture and also much safer, because it does not russet the fruit or injure the foliage in any way.

Red Seal Lye

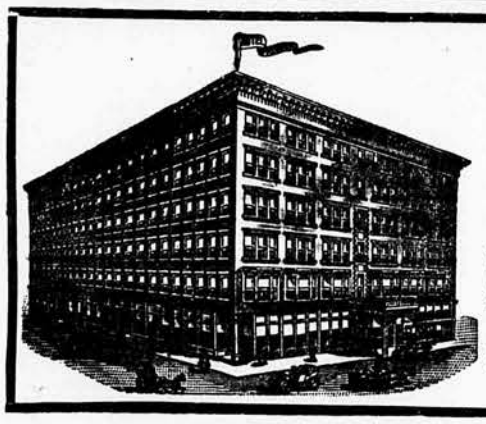
For Spraying 'Tis Paying.

Wash trunks of fruit trees with Red Seal Lye to remove and prevent scale. Spray the foliage, vegetables and plants with Red Seal Lye, we absolutely guarantee effectiveness. Sold by all grocers—big, sifting top cans only 10c. **10c**

PREVENTS HOG CHOLERA.

Don't let Hog Cholera ruin you—there is no dependable cure for this dreadful disease, but Red Seal Lye will *positively prevent* its contraction. Mix with feed—one tablespoonful enough for ten hogs. Keep labels. If your grocer cannot supply, send us his name. Valuable book of information and Premium List—FREE.

P. C. TOMSON & CO., Dept. F, 183 N. Wabash Ave., Chicago.



Hotel Kupper

11th and McGee
KANSAS CITY, MO.

The most centrally located popular priced Hotel in the city. One-half block from Emery, Bird, Thayer Dry Goods Co.

European Plan, $1 per Day and Up

DAIRY

Test Increases Production.

In a single year's time, W. H. Maust, Waterloo, Iowa, dairyman, increased the average butterfat production of his dairy herd from 231 pounds per cow per year to something like 300 pounds. That was increasing the income from his cows something like $20 per year each, without any more expense for barn room, feed or care. If every Iowa cow owner followed that pace, and did only half as well, more than $15,000,000 a year would be added to the wealth of the state annually. The tests pointed out to Mr. Maust the unprofitable cows in his herd and demonstrated that some of them were eating their heads off. It demonstrated too, the best feeds. He rid his herd of the poorest two or three cows, put in better ones and adopted the best feeds with the result of large increase in average production.

Protect Cows From Flies.

Every year there is a new recipe for the protection of old boss from the flies. Save these and try next fly time: Spray the cows before they are turned out to pasture in the morning with a mixture of equal parts of coal oil and fish oil. One gill, applied with a spray syringe, will cover the neck, shoulders and legs of one cow. The following mixture is recommended by the Wisconsin Experiment station: Resin, one and one-half pounds; common soap, two cakes; fish oil, one-half pint, and water, three gallons. Dissolve the resin by boiling in one gallon of water and the soap cut fine. When dissolved add the fish oil and the remainder of the water. Stir thoroughly before using. Apply with syringe or brush. This is an excellent fly repellent, cheap and effective.

Official Ayrshire Record.

Tested under the supervision of the Pennsylvania Experiment Station, McAlister's Betty in 12 months produced 14,208 pounds of milk, 581.41 pounds of fat equal to 678 pounds of butter. The cow lacked a few days of being four years

McALISTER'S BETTY, AYRSHIRE.

old at the beginning of her year's test on April 21, 1910. The cost of her feed was $138.28. She was on pasture six months which cost was figured at $18, the balance being cost of grain, hay and ensilage at market prices. The record of food consumed shows that the cow was not economically fed.

Economical Feeding.

The question of feeding economically is as great as farming economically. The man who contended his cow could live on fresh air didn't quite succeed, because she died about the time he cut her down to one straw a day. No doubt he was feeding economically, yet it didn't pay. We have various tables showing analyses of feed stuffs; we work out a ration that we think best, then usually have two or three authorities criticise same. We use our best judgment, study the capacity of the cow, weigh and test her product, then feed accordingly. We make mistakes, lots of them we never know, no doubt, yet in the main we are constantly increasing our herd; our land is getting richer; we are getting more buildings, and more and better equipment. Whether this is economical dairy farming or not I leave for others to say. We have no bank account beyond our everyday needs; no money loaned out; no bank stocks; no railroad bonds. Yet it is as much satisfaction, perhaps, to see our nice heifers, colts, fat pigs, and to know that we are trying to carry on a progressive and up-to-date line of work, even if we can't count our profits in dollars. To farm economically is much like any other business. One must spend money to make money. A good building, a fine bull, a valuable mare, will often pay more than six per cent on the investment.

No More Long Delays From Crippled Tires

Abolish breakdowns that are due to tires always carrying the Goodyear handy, repair devices. Then tire worries and long till aid reaches you become forgotten history.

"*How will I get the car home?*" Answer that question before you leave the garage by supplying yourself these valuable, inexpensive *Goodyear accessories*—the simplest, easiest, quickest, most effective way to conquer tire troubles and worries.

Goodyear Protection Patches are for use when the cut is clear through the casing. An outside boot fits firmly over the casing and laces over the with a thong. An inside patch, snugly fitted inside casing, protects the inner tube and the tire's fabric.

If it's a rim-cut, simply fit a handy *Goodyear Rim-Cut Patch* inside the casing—and the journey is resumed. *Goodyear Quick-Repair Gum* will quickly heal a cut in the tread or inner tube.

The easiest, quickest, surest way to patch inner tubes is with the *Goodyear Self-Cure Repair Outfit*. The patches require no cement.

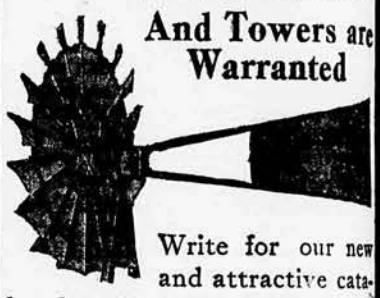
Our Inside Tire Protectors, Inner Tube Bags, Lever Handle Spanners, Slifter Top Tale Tubes and other accessories are motoring necessities. Sound satisfaction is to be had from *only* the Goodyear accessories, for they are the *best* that money can produce—yet their cost to motorists is *insignificant*.

'Phone your dealer or garage man now for a supply—it's a big move toward thoroughly enjoying your trips. Be sure you get *Goodyear Accessories*—no others can do the work so quickly or so effectively. Write today for valuable free booklets of instruction, to

The Goodyear Tire & Rubber Co., 42nd St. Akron, O.
Branches and Agencies in All the Principal Cities

CLIPPER STEEL GALVANIZED WINDMILLS

And Towers are Warranted



Write for our new and attractive catalog describing the best, strongest and most durable windmill on earth at very lowest price.

The Clipper Windmill and Pump Co.
TOPEKA, KANSAS

DE LAVAL CREAM SEPARATORS

not only save their cost every year but may be bought on such liberal terms as to literally pay for themselves. Why should you delay the purchase of the best separator under such circumstances?

THE DE LAVAL SEPARATOR CO.
165-167 BROADWAY, NEW YORK. 29 E. MADISON ST. CHICAGO.

Endurance Red Barn Paint

85¢ Per Gallon

Save money on your painting. Get better paint. Our Endurance Red Barn Paint No. 52, at 85c. a gallon, freight prepaid in 5-gal. cans, gives you utmost paint value. Fully guaranteed for spreading and wearing qualities.

NOT TRUST-MADE

We sell direct to the consumer only. You can pay more, but you can't get a better paint. What you pay more for goes into the pockets of dealers, traveling men and others who don't put any more, if as much, into the quality of the paint in the can. Our Red Barn Paint should interest every farmer. This is paint season. Send order now to

Sunflower Paint & Varnish Co.
FT. SCOTT, KAN.

Factory to Barn

The CLIPPER

There are three things that destroy your lawns: Dandelions, Buck Plantain and Crab Grass. In one season the Clipper will drive them all out.

CLIPPER LAWN MOWER CO., Dixon, Ill.

CLAY, ROBINSON & CO.
LIVE STOCK COMMISSION

Kansas City, Chicago, South Omaha, Fort Worth, So. St. Paul, So. St. Joseph, East St. Louis, Denver, Sioux City, East Buffalo,

0% MORE CROPS
pecial Grass Seed Advantages
ree book on cultivation shows the sure way. of it, you intelligent farmers—30 per cent bigger —30 per cent more earnings— en better in dry seasons. llustration shows our
For cow-peas, grain or grass seed between the corn or cotton rows.

SE GUIDED
e Horse Drill
neral seeding and re work between ws. Sows any seed. pendent discs. The only riding drill, etter work. No weight on the horse. Patented. hitch. Many other exclusive features. us for booklet 57
WM. FETZER CO., Springfield, Ill.

WITTE ENGINES
as—Gasoline—Distillate
heapest and best power known. Average cost one cent per horse power er hour. A superior standard of onstruction saves time, fuel nd repairs. We refer you to housands of satisfied customers. High grade engines our specialty r 35 years.
Five Year Guarantee
This engine is built for those who want the best. We furnish any size or style; hopper jacket or water tank type. We ship promptly. Everything is complete. Our prices are right. Inducements to introduce in new localities. Write for catalog, stating size wanted.

WITTE IRON WORKS CO.
2697 Oakland Ave., Kansas City, Mo.

MAN AND ONE HORSE
BALE
TON an HOUR
Do Your Baling Cheaply
Our Daisy SELF-THREADING, self-feeding one-horse hay press is the only one on which one man can do all the work. First successful self-threading device. The self-feed and automatic condenser materially increase results. Open side hopper. Write today for circular K-167 which gives prices and reports of actual work.
Geo. Ertel Co. Quincy, Ill.

$10.00 Sweep Food Grinder. | $14.00 Galvanized Steel Wind Mill.
We manufacture all sizes and styles. It will pay you to investigate. Write for catalog and price list.

GURRIE WIND MILL CO.,
Seventh St., Topeka, Kansas

WIND and WATER FREE
with the use of that connecting link.

The Success Windmill
A SUCCESS FOR FORTY YEARS. Runs easily, lightly. A postcard brings prices and a book from manufacturer to farmer
Hastings Foundry & Iron Works
Box 17 Hastings, Neb.

RAB'S WONDER LIGHTER

Everybody's buying it. The safest, most efficient and economical substitute for dangerous and costly matches. Flashes instantly, igniting any gas or alcohol. Good for 5,000 lights. A household necessity. Simple, durable. Price prepaid only 25c. Think of it! Hurry order. Agents wanted.
VICTOR M. GRAB & CO.,
130 Ashland Block, Chicago, Ill.

FOR SALE
Daily newspaper plant, or will trade it. No. 12-inch cutter and sweep power; registered Jersey bull ready for service; span ce registered Duroc Jersey boars, farrowed ebruary.
SAYDA POLO JERSEY FARM,
Parsons, Kansas.

LIVE STOCK

Conditioner for Hogs.

Cholera and other diseases of swine attack herds which are in poor condition and consequently most susceptible. An exellent recipe for keeping digestive organs in good condition is: 2 bushels charcoal; 1 bushel hardwood ashes; 1 pound copperas; 1 pound, common salt. Chop the charcoal into small lumps the size of hickory nuts, pulverize the copperas, mix all thoroughly and place under shelter where the hogs can eat as they want it.

Government Hog Tonic.

The United States Department of Agriculture recommends the following mixture as an excellent hog tonic:

"Wood charcoal one pound, sulphur sodium bicarbonate two pounds, sodium hyposulphate two pounds, sodium sulphate one pound, antimony sulphide one pound." These substances are thoroughly powdered and mixed. A dose is a large tablespoonful for each 200 pounds of hog flesh. It is most conveniently given in a thin slop.

Mares Best For Farm Work.

The chief factor in the rapid distribution of pure-bred horse breeding stock appears to be the rapidly growing realization among farmers that purebred mares will do farm work more effectively than even grade mares, and that they are vastly more profitable from an economic standpoint than geldings or mules employed in farm work. The latter return only their labor, while mares discharge the work of the farm as well as geldings or mules and produce in their colts an additional source of revenue.

Mares Give Good Profit.

An Ohio farmer writes an exchange: "All our horses are either producers or are growing into money," meaning that all his farm horses were mares that were producing colts that would be ready for the market. Speaking farther, he continued, "We are producing three-year-old draft colts for less than $70 each. These same colts are selling for $200 to $300. We are also raising a few pure breds which cost no more to produce than the others, except for the fact that the dams of the colts represent a larger investment. The pure-bred colts are selling at from $300 to $500. Every mare that we have is used in our regular farm work, and so it would be manifestly unfair to charge any portion of the expense of keeping the mares to the cost of producing the colt."

Feeding Steers.

A careful test at feeding steers conducted at the Pennsylvania station has been made and is summarized as follows, being the results secured from the experimental work of the winter of 1909-1910:

1. The most economical ration for fattening steers in Pennsylvania is one composed largely of roughage with a limited amount of concentrates.

* * *

5. Steer feeding was a profitable venture in Pennsylvania under conditions prevailing at the Eperiment Station from December 15, 1909, to May 3, 1910, the average price received for corn fed to experimental cattle being $1.05 per bushel.

6. The margin necessary between buying and selling prices to prevent loss from fattening cattle on a bulky ration was $1.23 per cwt., and on a concentrated ration, $1.68 per cwt.

Canada Offers Good Horse Market.

A correspondent says horse breeders, owners, dealers and trainers of the States are feeling quite comfortable over the adoption of the reciprocity treaty with Canada. With the expense and annoyance of duty removed on horses, trade is bound to increase rapidly not only to the immediate profit of those engaged in the business, but to a vast improvement and enlargement of the breeding industry of both countries.

A great trade is opening up in the Canadian Northwest which has been increasing gradually for the past five years, even with the burdensome restrictions in force. With these removed, trade will only be limited by the supply. Hundreds of good broodmares have been shipped into the Saskatchewan country and other sections of the rapidly growing northwest have bought largely, to say nothing of the older portions of the Dominion. No matter what else the treaty will benefit, the reciprocal trade in horses looks mighty promising.

POWER FOR PLOWING

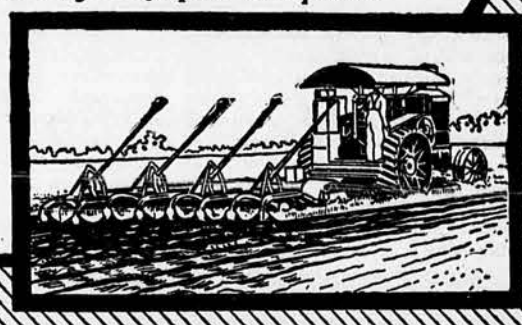
Deep plowing forms an ideal seed bed and produces the best crops. But plowing that is deep enough for best crop results, would soon kill your horses. With a Hart-Parr Gas Tractor you can turn 25 to 30 acres a day, full depth of the plows, assuring a maximum yield for the next crop. And by using low-grade kerosene for fuel, the cost will be only 40 to 50 cents an acre.

Early plowing kills the weeds before the seeds mature and conserves the moisture. On a large farm this is impossible with horses. But with a Gas Tractor doing the work of 22 to 25 horses, you can get your plowing done several weeks earlier than usual.

The moment you shut down the engine, the expense stops. Wages and feed bills saved will pay for a Tractor in a few seasons. Write for our catalog today.

"Cheapest to Buy—Cheapest to Operate"

Hart-Parr Company
212 Lawler St.
Charles City, Iowa



Proof That Merry War Lye Cures Sick Hogs

This advertisement is different, as you will see presently. We have been telling millions of farmers about "MERRY WAR" LYE. Now we are going to let some of these same farmers do the talking. They have tried "MERRY WAR"—and they know. Listen!

"It Cured Our Hogs"

Mrs. T. Akins, Hoxie, Ark., writes: "MERRY WAR LYE is all the LYE that we use. Before we began using it we had a lot of hogs with Cholera. We used MERRY WAR LYE and it cured our hogs."

"Cures Cough and Thumps"

Mr. A. W. Davis, Hamlin, Iowa, writes: "MERRY WAR LYE is the stuff to cure cough and thumps and put hogs in a thrifty condition and I will never be without it while I raise hogs."

"It Is a Sure Worm Killer"

Mr. B. S. Row, Gracemont, Okla.: "I have fed it to my hogs and have had good results. It is a sure worm killer."

"Best Hog Medicine I Ever Used"

Mrs. Elvis Potter, Junction, Ill.: "Have been using a great deal of MERRY WAR LYE. Find it the best medicine for hogs I have ever used."

"Best and Cheapest Hog Remedy"

Adam Schultz, McLouth, Kans.: "I consider MERRY WAR LYE the best hog remedy I have ever used, and the cheapest. It has made a marked improvement in my herd."

IMPORTANT WARNING!

Don't infer that ordinary or regular, lye can be used as a hog remedy.

MERRY WAR LYE is prepared ESPECIALLY as a hog remedy and it is the only lye that is guaranteed to be absolutely safe to feed to hogs. It is the greatest hog fattener and conditioner in the world.

Feed "Merry War" Every Day

MERRY WAR LYE comes in cans with the convenient turning top covers. Make it a part of the daily ration, and keep your drove in prime condition.

Save These Directions

Follow these directions carefully: Mix one tablespoonful MERRY WAR LYE with slop for 10 hogs, or ½ can with barrel of swill. Stir well and feed night and morning. If your hogs are on a dry feed ration, mix ½ can MERRY WAR LYE to each barrel drinking water.

At All Leading Dealers

Most dealers handle MERRY WAR LYE. If yours can't supply you, write us, stating your dealers' names, and we will see that you are supplied and will also send you, free, a valuable booklet on, "HOW TO GET THE BIGGEST PROFITS FROM HOG RAISING." Remember, there is no "substitute" for MERRY WAR LYE.

MERRY WAR POWDERED LYE comes in 10c cans, full cases of 4 dozen cans for $4.80, at Grocers' or Druggists' and Feed Dealers'. There are no substitutes.

E. Myers Lye Co., Dept. 12 St. Louis, Mo.

SAVE $50 to $300

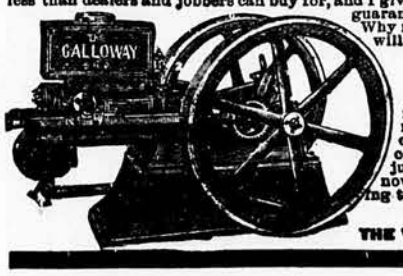
On a Gasoline Engine According To Size

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 I make on this 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 sell direct to the user with just one small profit added to cost of material and labor. No use paying big profits to a lot of middlemen. GALLOWAY WILL absolutely and positively save you from $50 to $300 on a gasoline engine that will exactly meet your requirements. Anyone can afford an engine at the prices I am charging. I *sell* for less 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 just what they are. Don't wait—don't put off! Sit right down now and write me for this book, because it actually means a saving to you of from $50 to $300 on a Gasoline Engine. It will pay you.

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

Home and Family Saved

One of Tens of Thousands

Not a miracle. No home protected as this one is ever *was* destroyed by lightning. It is made safe by

The DODD SYSTEM of Lightning Protection

How About Your Home?

Are you still taking chances?

Can you afford to risk the lives of your dear ones and your property, when you can insure their safety for a small sum of money invested once in your lifetime?

You insure against fire to receive compensation in case of loss.

Safety is better than compensation. And remember, there is no compensation for life taken by lightning.

The Safe, Sure Way

Get safety from lightning and fire insurance, too. They go hand in hand. Get both for the cost of one. Lightning causes nearly all country fires. The Dodd System controls and prevents lightning.

Insurance companies grant low rates of insurance on buildings protected by the Dodd System. The decreased cost of fire insurance quickly repays the cost of your lightning rods, erected once for all.

The Lesson of Insurance Companies

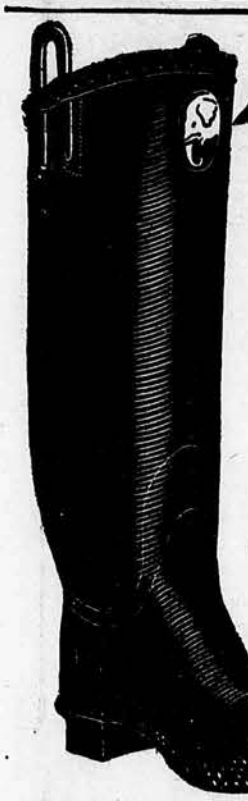
Over 2000 Fire Insurance Companies specially endorse and urge the protection of buildings by the Dodd System, because it is to their interest to do so. The Dodd System of lightning rods prevents *all* lightning losses, which means prevention of *three fourths of all fire losses.*

Our men are trained and skilled. They are able to rod your buildings correctly. That is all-important. Our personal, binding guarantee is issued to you on their work. Don't wait until it is too late. Send today for fine, large book on lightning, its laws and how to control it. Gives Prof. Dodd's great lecture, many vivid lightning scenes, resolutions of insurance companies, guarantee, etc. Free.

DODD & STRUTHERS
423 Sixth Avenue
Des Moines, Iowa

Benjamin Franklin Originator of Lightning Control.

West Dodd Who Perfected the Dodd System.



FARM COMFORT

Sloshing around in wet and mud is no fun, but a pair of good, stout rubber boots, *which you can always depend on,* makes it a lot easier.

Get the easy, comfortable, long-wearing kind—the

Woonsocket
ELEPHANT HEAD
Rubber Boots

We have been making rubber boots for 45 years, often as many as 10,000 pairs a day—in the only exclusive rubber boot mill in the U. S.

We make boots for men, women and children; hip boots, knee boots, short boots—all kinds. One man who bought a pair 28 years ago, wrote us that they were still good.

All Dealers.

WOONSOCKET RUBBER CO.
Woonsocket, R. I.

REGD US PAT OFF
Elephant Head Trade-Mark

Live Stock Exhibitors

It Will Pay You to Show at the

MISSOURI STATE FAIR

At Sedalia, Sept. 30 to Oct. 6, 1911

Send for Premium List. John T. Stinson, Sec'y.

MAPLEINE FLAVORING

Use it like lemon and vanilla. A delicious syrup is made by dissolving white sugar in water and adding Mapleine. Grocers sell Mapleine; if not, send 35c for 2oz. bottle and recipe book. Write to Dept. 9 CRESCENT MFG. CO., Seattle, Wash.

Why Hogs Root.

It may be and probably is natural for hogs to root and it may sometimes be necessary to ring or cut their noses to prevent rooting, but it is seldom that a hog will do much harm rooting if he is properly fed. The hogs that root are those that are fed corn exclusively and that must root to get other elements of food required by the system. The hog roots chiefly to get mineral and this can be supplied by feeding charcoal or coal.

Goats Immune.

The domestic goat is practically immune to tuberculosis. There are large areas in France and Germany, in fact, throughout the whole of Europe, where the domestic goat, instead of the cow, supplies human beings with food—milk and meat. It is in precisely these districts that tuberculosis is practically unknown, not only among human beings, but among swine and their distant relatives.

Farmer Must Furnish Horses.

No longer are thousands of range horses annually shipped to the eastern markets. The farmer is now compelled to raise, not only the animals used on the farm, but as well those used in the city. Colt raising is one of the most profitable side lines to be followed in our farming operations. For years it has been costing $75 to $135 a year for the feed of each horse. In addition to this, other costs come from occasional medical service, interest on the investment, depreciation in value on account of accidents and old age. Now, thousands of farmers are awake to the fact that with good luck and with exactly the same expenditure, each horse kept on the farm can be made to yield a profit of from $60 to $150, or, in reality, enough to pay the feed bill and all other expenses during the year. Figuring on this basis, the man who is raising colts is getting his motive power for nothing.

Influence of Good Sire.

A reader of Hoard's Dairyman asked that paper to give its reasons for urging so persistently the necessity of a good sire in the production of good cows. The answer is:

"Our reasons are (1) That such has been the doctrine believed in since men have studied breeding, to-wit: that sons take from the mother; daughters from the father. (2) We believe this doctrine from our own individual experience.

"For instance, we once owned a Guernsey cow that was actually about the poorest producer we ever did own.

"Do the best we could with her, she would not produce over 225 pounds of butter a year. We bred her to the bull Espranore 2d, who has seven daughters in Advanced Registry list. The result was a heifer that gave in her 4-year-old form over 8,000 pounds of milk and 403 pounds of butterfat. Where did she get her ability to produce so well? Not from her mother, but from her father. This bull produced splendid cows bred to low-producing grade mothers.

"Another instance: We owned the Guernsey bull Starlight's Excelsior, who now has 13 daughters in the Advanced Register to his credit. He was a bull of remarkable prepotency. One of his daughters, Blossom of Koshkonong, has been making at the rate of over 70 pounds butterfat per month since Christmas and at present is giving 45 pounds of milk daily, testing 5.9. She promises to become one of the phenomenal cows of the breed. Where did she get this wonderful capacity? From her sire. Starlight's Excelsior never produced anything but a superior, whether bred to purebred or grade mothers.

"Hundreds of other breeders of domestic animals have noticed the working of the same law. Hence we say that the farmer who is about to select a male calf should keep this law in mind and never be led to purchase an inferior bull, no matter at what price he may be offered."

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 paint.

Now that the rains have come, spade up your poultry yards and thus clean them and provide a scratching place for the hens at the same time.

Mr. Farmer

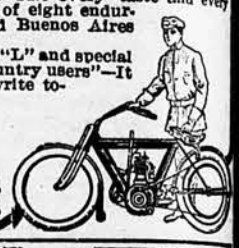
Here's the Right Machine for You

The Pierce is easy riding, silent, strong, powerful and simple in construction—the result of years of leadership in bicycle and Motor Car manufacture.

Pierce Vibrationless Motorcycles have numerous distinctive features such as the large tubing frames which will not break, buckle or dent and these tubes carry gasoline and oil sufficient for long touring-distances. This does away with separate tanks. Other features are free engines, two speeds, magneto ignition and all the latest appliances.

Made in two models, single cylinder and four cylinder, to suit every taste and every purse. Winners of eight endurance contests and Buenos Aires Grand Prize.

Ask for catalog "L" and special proposition to country users"—It will pay you to write today.



PIERCE CYCLE CO.
53 Hanover St.
Buffalo, N. Y.

The PRESIDENT
50¢ AND $1.00
GUARANTEED WORK SHIRTS

The *strongest* material is in them—that's why you get the *longest* wear out of them. Look where you will, you will never find more satisfaction or greater value in Work Shirts than in the 50c Regular and the $1.00 Special Presidents. Impossible to make them better at the price; impossible to get them better at the price—that's why they're so popular and growing more popular every day. Good looking as well as strong, shapely and well-fitting; made in a variety of attractive fast color patterns.

At your dealers; if not, send us his name, your collar size and price in stamps for sample shirt and book of new patterns.

THE PRESIDENT SHIRT CO.
19 W. Fayette Street Baltimore, Md.

SEED WHEAT

Grow bigger crops next year by sowing

Wonderful Yielding SULTANA

This improved strain of Turkey Red Winter Wheat will make you a fortune. 30 to 40 bus. per acre. Genuine Iowa grown. Learn all about it. Send now for prices and **FINE CATALOG FREE** Gives prices on all other fall seeds.

HENRY FIELD SEED CO.
Dept. W 55 SHENANDOAH, Ia.

Traction, Gas and Automobile Engineering

Each course may be finished in three months. Students work right in machine shops, traction engine house and auto garage. Repair and drive engines and automobiles.

Highland Park College

Gas Engine Course may be taken with either this Traction Engine or Auto Course without extra tuition. The students do the work. Very little text book study. Small tuition fees. Low cost of living. New shops and equipment. Also Machinists' and general engineering courses. Send for catalogue.

O. H. LONGWELL, Pres. Des Moines, Iowa.

Let us send you on
FREE TRIAL
is GOUMAT CORNET
nuine
mplete in a beautiful velvet lined case.
Warranted FIVE years; 1912 per-
ected model; HIGH and LOW pitch;
ick change to A; new horn and lat-
t improved valves; light action and
sy to blow; triple silver plated with
rnished bell and tips; case of hand-
me black seal Keratol and lined with
e silk plush. Entire
tfit complete, only..... $22.50
PAYABLE IN MONTHLY TERMS
DESIRED; ALSO A FREE COM-
LETE INSTRUCTION BOOK AND
ERTIFICATE FOR 50 FREE LES-
ONS.
Our new 1912 catalog of brass reed
d string instruments; the most com-
lete ever published; sent free to any
ddress. Ask for catalog F.
ENKINS SONS MUSIC CO.,
13-15 Walnut St., Kansas City, Mo.

When writing advertisers please
ntion KANSAS FARMER.

Insist on Getting

JAP ROSE
"The Bubble Bath Soap"
Get what you ask for.
Don't be imposed upon.
Jap Rose is the original, cartonned, transparent soap. Adapted for toilet use in all kinds of water.
Sold by Dealers Everywhere
REFUSE IMITATIONS
Look for the Jap Girl on every package.
A Large Cake 10c KIRK Established 1859

TONE'S OLD GOLDEN COFFEE
holds its friends—the surest proof of goodness. You'll like its fine aroma and color, its full body. Carefully selected coffees, blended, milled and roasted to make the finest cup quality. More cups to the pound. See that the seal is unbroken. Ask your grocer today. 30c a pound.
TONE BROS., Des Moines, Ia.
"There are two kinds of spices, TONE'S and "others"

LEARN TO KEEP HOUSE
s there a science in Cookery? In Sewing? n Home Decoration? In House Sanitation?
THE HOUSEKEEPERS' COURSE
AT THE
Kansas Agricultural College
Opens Sept. 20, 1911, Continues Two Terms
Admits girls eighteen years old and over—One of the most valuable courses ever established for women. Send for catalogue
THE REGISTRAR
Box 9, Manhattan, Kansas

WE WANT A GOOD MAN OR WOMAN—TO ACT AS GENERAL AGENT.
selling our new and winning meritorious household necessity. It is easy to sell an article that people actually need in daily life. Appeals to the housewife on account of being economical; repeats quickly and sells the year around. Yields large profits to the agent. We want to hear from applicants having a good standing in their community and those willing to hustle. The opportunity affords you a permanent and pleasant business. If you have the ability to sell goods, send full particulars. If you desire a sample send five 2-cent stamps for regular 25c package.
FAMOL PRODUCTS CO., 1237 Famol Bldg., Wash. D C

HOME CIRCLE

All Things Shall Pass Away.

Once in Persia ruled a king,
Who upon his signet ring
'Graved a motto true and wise,
Which, when held before his eyes,
Gave him counsel at a glance,
Fit for any change or chance.
Solemn words, and these were they:
"Even this shall pass away."

Trains of camels through the sand
Brought him gems from Samarcand;
Fleets of galleys trrough the seas
Brought him pearls to rival these;
Yet he counted little gain.
Treasures of the mind or main.
"Wealth may come, but not to stay;
Even this shall pass away."

'Mid the revels of his court,
In the zenith of his sport,
When the palms of all his guests
Burned with clapping at his jests,
He, amid his flags and wine,
Cried: "Oh, precious friends of mine,
Pleasure comes, but not to stay—
Even this shall pass away."

Fighting in a furious field,
Once a javelin pierced his shield,
Soldiers with a loud lament
Bore him bleeding to his tent.
Groaning, from his wounded side,
"Pain is hard to bear," he cried,
"But, with patience, day by day,
Even this shall pass away."

Towering in the public square.
Twenty cubits in the air,
Rose his statue grand in stone;
And the king, disguised, unknown,
Gazing on his sculptured name,
Asks himself: "And what is fame?
Fame is but a slow decay—
Even this shall pass away."

Struck with palsy, sere and old,
Standing at the gates of gold,
Spake he this in dying breath:
"Life is done—and what is death?"
Then in answer to the king
Fell a sunbeam on his ring,
Answering with heavenly ray,
"Even death shall pass away."

—Theodore Tilton.

If your ferns are not healthy, it is said that putting a tablespoonful of sugar on the roots and then watering with tea will prove beneficial to them.

When baking potatoes put a small pan of water in the oven and you will find they will bake much more quickly.

A teaspoonful of lemon juice to a quart of water in which rice is to be cooked, it is said, will make the rice very white and keep the grains separate when boiled.

Cold water, a tablespoonful of ammonia and soap will remove machine grease where other means would not do on account of colors running.

It is said that if cans of fruit are wrapped in newspapers after they have cooled from the canning process and placed in a dry, cool spot, they will be less likely to mold.

Soft Ginger Cake.

One-half cup molasses, 1 cup sugar, ½ cup shortening, 2 teaspoonfuls ginger 1 teaspoonful cinnamon, 1 teaspoonful cloves, 1 teaspoonful soda, 1 cup sour cream, 2 cupfuls flour, 1 egg.

Chocolate Sauce.

Put 1 tablespoonful of butter in a granite saucepan and when melted add 1½ squares of unsweetened chocolate. Stir until the chocolate is melted, then add 1 cupful of sugar, a pinch of salt, and 1-3 cupful of boiling water. Boil from 12 to 15 minutes, until of the consistency of thick syrup. Flavor with 1-2 teaspoonful of vanila. This is excellent to pour over ice cream.

How He Got Even.

A traveling man who stutters spent all afternoon in trying to sell a grouchy business man a bill of goods, and was not very successful.

As the salesman was locking up his grip the grouch was impolite enough to observe in the presence of his clerks:

"You must find that impediment in your speech very inconvenient at times."

"Oh, n-no," replied the salesman, "Everyone has his peculiarity. S-stammering is mine. What's y-yours?"

"I am not aware that I have any," replied the merchant.

"'D-do you stir y-your coffee with your r-right hand?" asked the salesman.

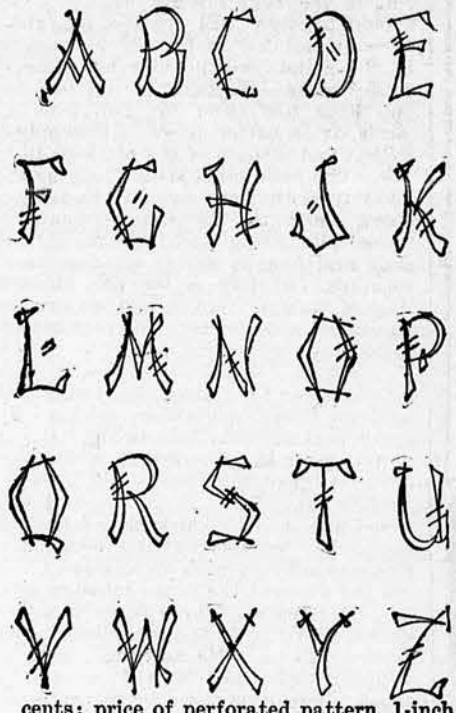
"Why, yes, of course," replied the merchant, a bit puzzled.

"W-well," went on the salesman, "t-that's your p-peculiarity. Most people use a t-teaspoon."—Success.

---

202. Alphabet in Japanese Style.

These can be had in three sizes. Price of perforated pattern, ½-inch size, 25



cents; price of perforated pattern, 1-inch size, 35 cents; price of perforated pattern, 2-inch size, 50c.

8950. A New Frock for Mother's Girl.

Blue linen with pipings of tan and buttous to match was used for this design. The waist portions are plaited under the peasant yoke, that has cap sleeves. The skirt is plaited. A bishop sleeve finishes the tucker. Any of this season's dress goods will develop this model effectively. The pattern is cut in four sizes, 8, 10, 12 and 14 years. It re-

quires 2½ yards of 44-inch material for the 10-year size for the dress, with 1⅛ yards of 36-inch material for the tucker. A pattern of this illustration mailed to any address on receipt of 10 cents in silver or stamps.

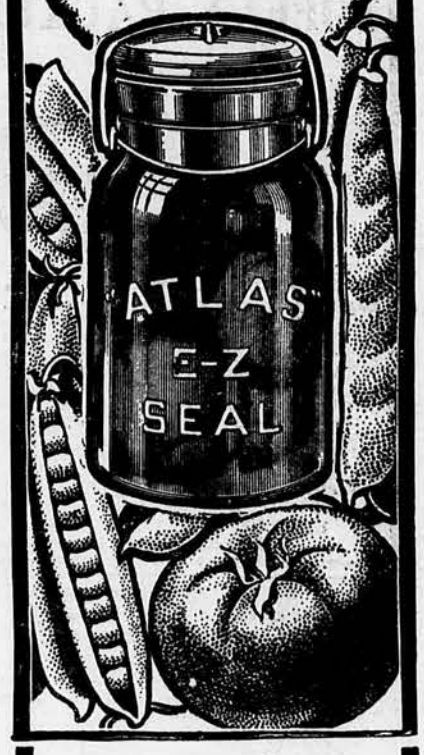
Here is The Real Jar
for your fruit and vegetables, because it makes you *sure* that they'll *keep*. The all glass top fastens air-tight with a light push of your finger—and opens just as easily when you *want* it to open. Nothing to screw or unscrew.

ATLAS E-Z SEAL

jars take fruits and vegetables *whole*—keep them fresh, sweet and full of *natural* flavor. Save you money because they save you fruit, and utilize vegetables that go to waste in ordinary, old-fashioned jars. Buy the Atlas E-Z Seal jars and buy *right*.

Send now for our booklet of Famous Preserving Recipes. Nothing to pay.

HAZEL ATLAS GLASS CO.
Wheeling, W. Va.



1-Qt. E-Z Seal Jar FREE for the Coupon

Please note—In order to secure free jar this *coupon must* be presented to your dealer before October 1, 1911, with blank spaces properly filled out.

HAZEL-ATLAS GLASS CO.,
Wheeling, W. Va.

This is to certify, That I have this day received one "Atlas" E-Z Seal Jar Free of all cost and without any obligation on my part. This is the first coupon presented by any member of my family.

Name .....

Address.....

TO THE DEALER:—Coupon will be redeemed at the full retail price by your jobber. All coupons must be signed by you and returned before November 1, 1911.

DEALER'S CERTIFICATE. This is to certify, that I gave away one "Atlas" E-Z Seal Jar to the person whose signature appears above.

Dealer's Name.....

Address.....

L. M. PENWELL
Funeral Director and Licensed Embalmer
511 QUINCY ST., TOPEKA, KAN.

A Ticket to California for $25

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.

Santa Fe

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

TOPEKA PACKER

Crop production depends on soil character, tillage 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.

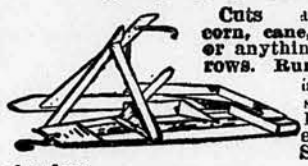
Thousands in use and proving every day, that all our claims are facts.

We sell direct for wholesale prices and guarantee every packer we ship.

Write for special fall prices and full description. Address,

UNITED MERCANTILE CO.,
TOPEKA, KANS.

GREEN CORN CUTTER



Cuts and gathers corn, cane, kaffir corn, or anything planted in rows. Runs easy. Long lasting. Thousands in use. Fully protected by patents. Send for free circulars.

J. A. COLE, MFR.,
TOPEKA, KAN.

Live Stock Owners

Arrangements have been made whereby you can now procure absolutely free at drug stores

DR. DAVID ROBERTS VETERINARY BOOK

184 large pages, regular price $1. Posts you on ailments, diseases and how to treat all kinds of live stock. If not found at your local drug store, send 10c in stamps for postage and receive direct.

DR. DAVID ROBERTS VETERINARY CO., 140 Grand Ave., Waukesha, Wis.

When writing advertisers, please mention KANSAS FARMER.

FOR SALE.

A1 feed mill, doing a good cash business of $150 to $200 net each month; only one in west part of the county; splendid trade; coal bins on railroad right of way; owner selling on account of losing his wife and failing health; this will bear investigation; in good, live town. For further particulars call on or address

THOS. DARCEY,
Real Estate Agent. Offerle, Kan.

Elm Grove Poultry Farm

Barred Rocks, R. C. & S. C. R. I. Reds, S. C. White Leghorns and Pit Games. Write for prices.

ELM GROVE POULTRY FARM,
Wichita, Kansas.

POULTRY

Don't forget the fact that the State Fair will open in a few weeks' time and you ought to be getting your birds in shape for exhibition.

The average poultry house is not large enough for the old flock and this year's increase. The young and weaker will go to the wall, and crooked breast bones and injured heads and bodies will be the result.

Those breeders who are getting eggs these hot days are fortunate, for real fresh eggs are scarce. Most of the eggs now in the market were laid early in the season and have lost their freshness. The man who can provide strictly fresh eggs in August ought to receive a decided premium on them.

Much of the profits which might be derived from small flocks of fowls is lost by keeping the hens and pullets together It seems like too much work for a small object to separate them when they amount only to a decent flock together. But if the hens are fed as the pullets should be, they will get too fat, and if they are all fed as the old hens should be, the pullets will not develop in season to lay early. If you keep but few hens and have not room for two pens and yards, it is better to raise a supply of pullets and dispose of the old hens in the fall. The male birds should also be kept away from the hens and pullets, and kept away until the breeding season. Of course the whole flock, old and young, male and female, can be allowed to run together, but this is the old, slip-shod way of running things, and we are here to suggest a better way and a more profitable way of raising fowls.

In answer to a subscriber, would say that the cause of gapes in chickens is a small parasite that infects the windpipe of young fowls. The larvae of the parasites are usuallly introduced into the fowl by being drank in the water, though sometimes healthy chickens get them by eating the worms that are coughed up by those afflicted with the disease. Chickens can also get the gapes by running on low, damp places. There are several well-known preventives and remedies for this disease. Put a little salicylic acid in the drinking water and it will prevent the gapes. It may be cured by mixing garlic and onions freely in their food or by using powdered asafetida and powdered gentian with it. Another remedy is to give the chick a piece of camphor the size of a pea. The fumes will kill the worms. Camphor in the drinking water is a preventive of the disease. Another good remedy is spirits of turpentine; dose, 5 to 10 drops. Change the location of the chickens to high, dry ground and put camphor in the water, and it will save the rest of the flock.

Leg Weakness.

Weakness of the legs is a trouble appearing in young birds, cockerels more often than pullets, and is seen usually between 3 and 5 months of age. The larger breeds are more prone to this trouble than the smaller and more active birds. This weakness is caused by pushing the growth, by feeding too much fattening food and condiments, thereby increasing the weight of the body beyond the ability of the legs to support it.

If your birds are getting into this condition, you will notice, at first, unsteadiness in gait. They move slowly and the limbs shake slightly. In a week's time they can hardly keep up on their legs, and when feeding will sit down so the body is nearly on the ground. The bord otherwise appears to be healthy. The feathers are bright, the eye clear and the appetite good. As the days pass the bird loses its desire for food, is picked upon by his brothers, lice multiply upon him, he becomes thin, and the skin seems dry and crackly.

In the very beginning of the weakness remove all causes of trouble. Spice, corn, cornmeal, buckwheat and rye should not be fed for weeks to such birds. Instead of such fattening food, which goes to make flesh, they should be fed bone and feather-making rations. Feed lean meat and bone meal in goodly proportions. Ground fresh bone, meat gristle all are good for them. Have regular times to give the meals and make each bird work for part of his food. If possible, have sick birds by themselves, to avoid imposition by the other birds. A grass run, with shade and cool water, will help cure these cases. If you have time and patience, one-tenth of a grain of quinine given to each bird with leg weakness every morning will help bring up chicks to health again.

Readers Market Pla

CLASSIFIED ADVERTISING 3 CENTS A WO

Advertising "bargain counter." Thousands of people have surplus items or for sale—limited in amount or numbers hardly enough to justify extensive display vertising. Thousands of other people want to buy these same things. These inte buyers read the classified "ads"—looking for bargains. The "ads" are easy to find easy to read. Your advertisement here reaches a quarter of a million readers cents per word for one, two or three insertions. Four or more insertions, the 2½ cents per word. No "ad" taken for less than 30 cents. All "ads" set in u style, no display. Initials and numbers count as words. Address counted. Term ways cash with order. Use these classified columns for paying results.

MALE HELP WANTED.

GOVERNMENT FARMERS WANTED—Examination October 18. High salaries; free living quarters. If you understand farming write today. Ozment, 44, St. Louis.

HELP WANTED.

CIVIL SERVICE EXAMINATIONS OPEN the way to good government positions. I can coach you by mail at smal cost. Full particulars free to any American citizen of 18 or over. Write today for Booklet E 809. Earl Hopkins, Washington, D. C.

MEN WANTED FOR GOVERNMENT POsitions; September examinations everywhere; influence unnecessary; average salary $1,100; annual vacations; send immediately for list of positions open; common education sufficient. Franklin Institute, Dept. M-88, Rochester, N. Y.

REAL ESTATE.

TO SELL YOUR PROPERTY, WRITE Northwestern Business Agency, Minneapolis.

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

835 ACRES, 1¾ MILES FROM TOWN OF 4,000, eastern Oklahoma; 625 acres bottom and second bottom; 150 in cultivation; abundance living water; some timber; splendid improvements; $27.50 per acre, terms. Chaney-O'Meara Land Co., Topeka, Kan.

LAND IN THE OZARKS OF SOUTH Missouri grows wheat, corn, rye, oats, clover, timothy, blue grass, fruit and vegetables; pure water, healthy climate; price of land reasonable; booklet free. Address J. I. Willhite, Tyrone, Texas Co., Mo.

TEXAS FARMS AT SPECIAL PRICES—The fertile Brazos Valley is being thrown open for small farms at bargains; send 2 cent stamps to the sec'y of Brazos Valley Commercial Club, Bryan Texas, for a map of Texas and information.

WEISER, IDAHO, OFFERS WONDERFUL opportunities for farmers, investors, stockmen and fruitgrowers. Splendid climate, reliable information and illustrated literature FREE. Address Weiser Commercial Club, Weiser, Idaho.

FARMS WANTED—WE HAVE DIRECT buyers. Don't pay commission. Write describing property, naming lowest price. We help buyers locate desirable property free. American Investment Association, 43 Palace Bldg., Minneapolis, Minn.

80 ACRES NEAR ROCKY-FORD, high state of cultivation; earns $4,000 dollars a year. Good water right, phone, daily mail. To close partnership will sell cheap. Reasonable cash payment. Bal. easy payments. C. L. Umstead, Rocky-Ford, Colo.

151-ACRE FARM, 2½ MILES FROM town, in Butler Co., Kan.; 65 a. in cult., 71 pasture, 14 meadow; small orchard, plenty of small fruit; 8-room house, good condition, well built, arch cave, barn 30x40 with hay mow; granary, hen house, buggy shed; well fenced with wire and hedge; for quick sale at $5,000; mtg. $1,000. H. H. Bersie, Eldorado, Kan.

BIG CROPS THIS YEAR; COME SEE for yourself; locate in a sure crop country with mild, healthful climate; our big offer this season is choice railroad land at $10 an acre on easy terms; 40,000 acres to select from in well settled farming community; improved stock ranches and alfalfa farms; great land values for home or investment. Write today. Hartung Land Company, State Agents, Cheyenne, Wyo.

FREE — "INVESTING FOR PROFIT" Magazine. Send me your name and I will mail you this magazine absolutely free. Before you invest a dollar anywhere, get this magazine—it is worth $10 a copy to any man who intends to invest $5 per month. Tells how $1,000 can grow to $22,000. How to judge different classes of investments, the real power of your money. This magazine six months free if you write today. H. L. Barber, Publisher, R. 431, 28 W. Jackson Boulevard, Chicago.

IRRIGATED FRUIT AND FARMING lands at Mosida-by-the-Lake; in the most beautiful and most wonderfully fertile valley in the whole irrigated west; splendid lands; deep, rich, mellow soil; inexhaustible water supply; perpetual water rights; irrigation system now operating; many Kansas farmers as references; lands rapidly advansing in value; responsible local representatives wanted; write for particulars. Lawson & Parker, 1606 Broadway, Denver, Colorado.

CATTLE.

HOLSTEINS FOR SALE—TWO REGISTered yearling 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 JERsey 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.

FOR SALE—FINE REGISTERED JERsey cow, with her daughter—both in heavy milk flow. Will make low price for quick sale. Write for price and full information. Address, 614, Kansas Farmer, Topeka, Kans.

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

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

SEEDS AND PLANTS.

"SEED WHEAT," INSPECTED K of wheat, $1.40 per bushel; sacked, cars here. Henderson Long, Haddam,

MAMMOTH WHITE RYE; CH seed; Poland China bred gilts; one choice bred registered Collie. John D ler, Hiawatha, Kan.

ALFALFA SEED—RECLEANED, H grown, non-irrigated alfalfa seed at $9 and $9.60 per bu.; sacks extra. No ious weed seeds here; it sows farther, stands heat and cold better and hardier growth than western seed. C. Adam Mer. Co., Cedarvale, Kan.

POULTRY.

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

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

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

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

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

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

INDIAN RUNNER DUCKS; FAWN white $4 per trio; they are beauties; limited; closing out; order quick. Windle, Walnut Row Farm, Route 1, 7, Paola, Kan.

BUFF WYANDOTTES—BARGAIN ces for balance of season. Eggs $1.5 15; day-old chicks 15c each. High sc birds only in breeding pens. A rare c to get a start from high class stock. Wheeler, Manhattan, Kan.

BLAKER'S BARRED ROCKS ARE preme in type and color, winning a largest shows. Get my catalog and s yourself the grand quality I am offeri eggs from blue blood stock. Choice bator eggs $2 per 30, $6 per 100. Blaker, R. 22, Parsons, Kan.

DOGS.

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

WOLF HOUNDS—WOLF AND SM game hounds for sale. Rash Bros., Ce ville, Kan.

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

MISCELLANEOUS.

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

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

TAKEN UP—A STRAY STEER, years old, at N. C. Pedersen's, Route phone No. 5, on 28, Emporia, Kan.

FOR TRADE—A GOOD THRESH outfit for western Kansas land. Writ J. Trousdale, Newton, Kan.

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

CHICK-O, A BALANCED RATION seeds and grains for baby chicks; tr for your late chicks. D. O. Coe, Topek

LEARN TO BE YOUR OWN DR maker. Write Mrs. Louis Johnson, H ville, Kansas. Branch School Ame College Dressmaking, Kansas City, Mo.

FOR SALE—RAMS OF THE DOR Hampshire, Southdown and Rambo breeds. Animal Husbandry Departm Kansas State Agricultural College, hattan, Kan.

FOR SALE—NEW 1911 HUPMOB runabout; only slightly used 3 months; ly equipped; cost $800; will sell for for quick sale; want to buy a bigger Address M. K., care Kansas Farmer, peka, Kan.

FOR SALE—A USED DOUBLE SEA surrey; hand made to order; extra h wheels; full leather top; finest of mate and workmanship all through; not used enough to hurt; cost $600; will at big sacrifice for quick sale; partic sent by return mail if you write. 810, of KANSAS FARMER, Topeka, Kan.

ARGAINS IN LANDS

HREE EXTRA GOOD FARMS

acres, nice, smooth, rich soil, 25 acres in alfalfa, 20 acres timothy and clover, nce in cultivation, good 9-room modern house, 4 room tenant house, fine barn 2,000 bu. oat bin, corn cribs, one of the very best farms in Shawnee county, 15 of Topeka, 3 miles Hoyt, ¼ mile to school. Price $17,000; a real bargain.

0 acres good smoth land, 20 miles west of Topeka, 4-room house, good barn, 1 to school, good roads, 20 acres timothy and clover and alfalfa, good water. Price 0; $1,000 or $1,500 cash, balance easy.

160 acres, 11 miles Topeka, 1¼ miles station, 80 acres smooth, fine living spring r, extra good 8-room house, large barns, a beautiful country farm, well located, $13,000.

WINGETT LAND COMPANY

. WHITE, Farm Salesman. 109 West 6th, Topeka, Kan.

ESS COUNTY "SNAPS"

Write for our list of Special Bargains. We have some prices that will surprise you. ember that Ness County adjoins the banner wheat county of Kansas for 1910. Coun- ap 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 to anyone who has a little money to handle it: I have a fine, solid section nd, lays 9 miles from the county seat of Wallace county, Kansas, which is as a section as will be found in the west; lays fine, good, rich soil; no rock, no l, no gip; fine sheet water; good climate. This land is all free and clear; good This is a dandy, and to turn this land by Sept 1, I will put the land down r than any land on the market in Wallace county for this class of land; $12.50 acre takes it, and I will take a good residence property up to $3,000; must be clear; consider hardware stock; any good stock worth $3,000, if clear; $2,700 cash and carry balance on land at 7 per cent interest. Here is a fine chance to make a nice at cash prices. Address owner, Box 214, Smith Center, Kan.

CHANGES—Lands, city property, stocks mdse. What have you to offer? OSTER BROS., Independence, Kan.

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

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

T OUR BOOK OF 500 FARMS and rties everywhere to trade. Graham , Eldorado, Kan.

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

RN, ALFALFA, WHEAT lands near oria, Kan.; the best land in Kansas for price; write for list. T. B. GODSEY, Emporia, Kan.

ARMS FOR SALE IN CLOUD AND unding counties in Kansas. All prices, $30 to $100 per acre. Glad to send you list. Concordia Land Co., Concordia, as.

0 ACRES, 14 miles south of McPherson, ; good farm, price $90; exchange for ; mostly alfalfa land.; imps. good. Clubine, Durham, Kan.

OR SALE OR TRADE—Properties of all s. Lands $15 to $75 per acre. 40 years' ence. W. H. Kaltenbach, Toronto, dson Co., Kansas.

ASTERN KANSAS BARGAINS—Im- ed stock and grain farms; $30 to $65 per ; write for list free. J. E. CALVERT, Garnett, Kan.

OME OF THE FINEST FARMS in Kan- for $30 to $70 per a. Close to excellent ; raise corn, wheat, alfalfa, all kinds rops; fine water at 8 to 35 ft. Write for list. W. C. ALFORD, Hazleton, Kans.

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

HOICE ALFALFA LAND, for sale or hange. Exchange propositions are made pecialty. UNITED LAND COMPANY, Schwuter Bldg., Wichita Kansas.

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

60 ACRES, 3 miles of Towanda. A snap 7500. Other good farms in western But- county. Write for particulars. G. W. ORE, Towanda, Kansas.

OR SALE—Five sections of level farm- land in the great rain belt of Colorado; t water on each section; shallow water over; one set of good improvements; colonization property. Write J. L. RECTOR, Calhan, Kan.

WRITE FOR MY BIG LIST OF CHEAP tle, horse and sheep ranches. I have im- ved farms worth the money on terms to t in the sure wheat belt. Agents wanted co-operate. J. C. WHARTON, McCracken, Kansas.

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

A FINE NESS COUNTY FARM. 640 acres, 1½ miles from town; ½ mile school; 500 acres smooth, bal. good ture; never failing spring, also good ll; 4 miles of fence; 300 acres in cult.; d all clear; will trade for good, clean ock of mdse.; price $20 per acre. UTHERFORD & OLIVER, Utica, Kan.

STOP RENTING

Here are 160 acres 8 miles Fall River, ansas, 85 acres cultivation, balance na- e grass; 3-room house, common stables, chard, good water, close school; this farm s in nice valley; cash price $4,000; will ke $1,000 in good work and driving teams part pay. W. A. Nelson, Fall River, reenwood County, Kansas.

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

GET MY list of a few choice bargains in Hamilton county, Kansas, land. Walter & Walter, Syracuse, Kan.

BAGAINS in Southern Kansas farms, unimproved lands and stock ranches. Prices $25 to $70 per acre. E. K. Longley, Howard, Kansas.

LAWRENCE CO.—RICHEST IN AGRIculture and horticulture of any in Mo.; write me the nature of investment you want; large or small tracts; terms. King Collier, Marionville, Mo.

BUTLER, HARVEY AND SEDGWICK CO. LANDS.

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

POOR MAN'S CHANCE—320 a., nice, smooth, level wheat land. 160 acres in cultivation, 160 in grass, all can be farmed, deep, rich, dark loam soil, fine water, in good neighborhood. Priced for short time only, $25 per acre and good terms; second creek bottom land and not a bad spot on it. Address Stinson & Sheldon, Spearville, 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. $2000 cash; rest to suit; 25 a wheat included. Write for list. J. J. Bishop, Wakefield, Kan.

LIVE AGENT WANTED

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

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 soil 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.

THE BEST TOWN TO LIVE IN.

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

FOR TRADE

235 acres 4 miles of Garnett, Kan.; 70 acres in cult.; 25 pasture, balance meadow; 5 room house, barn, etc. Price $15,000; mortgage $5,000; wants mdse.

80 acres 3 miles of Greeley; good farm, well improved. Price $5,200. Wants western Kansas land.
SPOHN BROS., Garnett, Kansas.

A BUTLER COUNTY BARGAIN.
Crops Never Looked Better.

160 a. 5 mi. town, all good soil, 125 cultivated, balance pasture and meadow. Two sets improvements.

A snap for a short time at $55 an acre. Send for full description.
Kansas Map and new land list free.
JAS. A. THOMPSON,
Whitewater, Kansas.

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

WRITE G. L. PAINTER & CO. About Ford Co. Land.
$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.

Mr Small Investor: Let me tell you how to make handsome profit on a few dollars invested each month in Plains, Kans., town lots. Price $12.50 to $50. Write me. Right now.
JOHN W. BAUGHMAN, Desk F, Plains, Kansas.

Alfalfa Farm For Trade

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

FOR EXCHANGE.

A good 160-acre farm in Woodson County, Kansas; 70 cultivated, 60 meadow, balance pasture; no rock; $65 per acre; mtg. $4,000. What have you for equity?
A. B. ESTEP, Yates Center, Kansas.

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

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

FOR 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 application.
G. W. HURLEY, Emporia, Kan.

9 ACRES

Adjoining Topeka; five-room cottage; new cellar; good barn, 16x26; plenty of water; 100 bearing assorted fruit trees; soil is fine; macadam road; $4,000.
FOX-COOK AGENCY, Topeka, 103 West Eighth.

320 A. Gov't Homesteads

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

FOR SALE

Half interest or separate 80 in 160-a. Colorado irrigated farm at a rare bargain to a responsible farmer who will take full charge. My partner not practical farmer. I have option on his interest. Small cash payment, liberal terms. Address,
A. MORRIS, 1645 Champ Street, Denver, 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.

FOR EXCHANGE.

5 lots in Wichita, Orient second addition, corner Highland boulevard and Crawford avenue; clear; for automobile; must be 1910 or 1911 model and in good condition.

18 town lots in Pittsburg, Kan., to exchange; price $2,000; mortgage $700; all interest and taxes paid. What have you to offer?

200-acre ranch, about 50 acres in cultivation; good land; balance bluestem pasture and mow land; 6-room house, small barn, 2 springs, well and windmill, cement tank; under fence; price $7,500; mortgage $2,000; 6 per cent interest; 6 miles to town.

8-room house, large barn, ¼ block of ground, fine shade and water; 4 blocks from court house in Eureka; price $5,000; clear.

Will trade the last two for western land if located to suit. Must be clear and with the money. Address
G. K. JACKSON, Eureka, Kan.

WHERE CAN YOU BEAT THIS?

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.

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 excursion

September 5th, 1911

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

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

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

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

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.

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

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

WE TRADE OR SELL ANYTHING ANYwhere. The Realty Exchange Co., 18-22 Randall Bldg., Newton, Kan.

WANTED—WILL BUY GOOD FARM from owner only; state particulars. Address CONRAD, Box 754, Chicago, Ill.

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

Neosho County. Buy land near Chanute. Plenty rain and big crops; $30 to $50 per a. Write today. HOME INV. CO., Chanute, Kan.

SALINE CO.—160 a., lays fine, good improvements, 110 a. cultivated, 3 mi. of town, 12 a. alfalfa.
Cave Realty Co., Salina, Kansas.

$12.50 per acre. 1040 acres in body; half tillable, balance rough, but good grass land; all under fence; half cash, balance easy terms.
TAYLOR & BRATCHER, Coldwater, Kan.

A CASH SNAP; 320 acres, 11 miles town. 90 acres bottom land; stone house, good water; $1700 cash, $1500 long time; other snaps; send for booklet.
BUXTON BROS., Utica, Kan.

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

FINE HOME, 48 a., one mile of this city, about 38 a. now in cultivation, bal. pasture, 6 room house, new barn 34x60 and hay loft; two wells and mill and other outbuildings; good orchard and all second bottom land. Priced to sell at $5,500 cash. E. F. Dewey, Blue Rapids, Kan.

FINE STOCK FARM.

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

TEN WEEKS FOR TEN CENTS.

KANSAS FARMER will be sent on trial to any address 10 weeks for 10 cents. Could you do a friend or neighbor a better turn than to take advantage of his offer? Why not pick out five of your friends and send each of them KANSAS FARMER for 10 weeks?

To any lady reader of KANSAS FARMER who sends us 50 cents and five trial subscriptions, we will send free of charge a KANSAS FARMER COOK BOOK. This is the best cook book ever published, none excepted. If you don't say so when you get it, we will send your money back.

To any gentleman reader sending us 50 cents for five trial subscriptions we will send free of charge a fine fountain pen.

Address Subscription Department KANSAS FARMER, Topeka, Kansas.

When writing advertisers, please mention KANSAS FARMER.

Green Corn Cutter.

The manufacturing plant of J. A. Cole, the Green Corn Cutter man of Topeka, Kan., presents a busy appearance these days. Raw materials consisting of lumber and steel are coming in by the carload and the factory is running full blast turning out hundreds of cutters each week, filling the orders of factory and the distributing houses. The Rock Island Implement Co., of Kansas City, Mo., and Oklahoma City, Okla., are large distributers of these high grade green corn cutters. Every effort is being made to promptly supply all demands for those machines this season. If your local dealer can't supply you, write direct to the factory at the address given above, for free circulars and prices. Kindly mention this paper when writing.

FIELD NOTES

FIELD MEN.

Wayne Devine.....Topeka, Kan.
Jesse R. Johnson.....Clay Center, Kan.
W. J. Cody.....Topeka, Kan.

PURE BRED STOCK SALES.

Percherons.

Nov. 14-15.—H. G. McMillan & Sons, Rock Rapids, Ia.
Feb. 6-7.—H. G. McMillan & Sons, Rock Rapids, Ia.

Holstein-Freislans.

Feb. 7-8.—H. C. Glissman, Station B., Omaha, Neb.

Herefords.

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

Poland Chinas.

Sep. 13.—W. B. Wallace, Bunceton, Mo.
Sep. 14.—Bert Harriman, Pilot Grove, Mo.
Sep. 15.—J. A. Winebrenner, Tipton, Mo.
Sept. 26—Ben. M. Bell, Beattie, Kansas.
Sept. 28—J. D. Willfoung, Zeandale, Kan.
Sept. 26, B. M. Bell, Beattie, Kansas.
Oct. 4.—S. A. Bugg, Hamilton, Mo.
Oct. 5—J. C. Salter, Jasper, Mo.
Oct. 7—J. B. Dillingham, Platte City, Mo.
Oct. 3—L. R. McClarnon, Bradyville, Iowa.
Oct. 9.—W. H. Emens, Elmdale, Kans.
Oct. 10.—Frank Michael, Erie, Kan.
Oct. 11—S. A. Hobson & Son, King City, Mo.
Oct. 14—T. J. Dawe, Troy, Kan.
Oct. 16—A. R. Enos, Romona, Kan.
Oct. 16—Oak Hill Stock Farm, Esbon, Kan.
Oct. 17.—J. D. Spangler, Sharon, Kan.
Oct. 17.—J. D. Gates, Ravenwood, Mo.
Oct. 18—Geo. M. Hull, Garnett, Kan.
Oct. 18—W. E. Long, Meriden, Kan.
Oct. 19—J. J. Hartman, Elmo, Kan.
Oct. 19—Dietrich & Spalding, Ottawa, Kan.
Oct. 20—Roy Johnston, South Mound, Kan.
Oct. 20—Geo. W. Smith, Burchard, Neb.
Oct. 21.—Stedem Stock Farm, Marshall, Mo.
Oct. 21—A. R. Ryestead, Mankato, Kan.
Oct. 23—Herman Gronniger & Sons, Bendena, Kan.
Oct. 24—W. F. Fulton, Waterville, Kan.
Oct. 24—A. P. Young, Lexington, Mo.
Oct. 25.—R. M. Finch, Sheriden, Mo.
Oct. 25—T. J. Meisner, Sabetha, Kan.
Oct. 26—W. B. Van Horn, Overbrook, Kan.
Oct. 26—W. R. Webb, Bendena, Kan.
Oct. 27—Baker Bros., Butler, Mo.
Oct. 27—J. C. Halderman, Burchard, Neb.
Oct. 27—J. O. James, Bradyville, Iowa.
Oct. 28.—W. V. Hoppe, Stella, Neb.; sale at Fall City, Neb.
Oct. 30—J. H. Harter, Westmoreland, Kan.
Oct. 31—M. T. Williams, Valley Falls, Kan.
Nov. 1—H. B. Walter, Effingham, Kan.
Nov. 2—H. C. Graner, Lancaster, Kan.
Nov. 4—T. M. Willson, Lebanon, Kan.
Nov. 4.—E. Howard, Morrill, Kan.; sale at Sabetha, Kan.
Nov. 6—J. E. Bowser, Abilene, Kan.
Nov. 7—H. J. Griffiths, Clay Center, Kan.
Nov. 7—Verny Daniels, Gower, Mo.
Nov. 8—L. E. Klein, Zeandale, Kan.
Nov. 8—W. A. Prewett, Asherville, Kan.
Nov. 9—Young & Kimberling, Glasco, Kan.
Nov. 9.—Joe Schneider, Nortonville, Kan.
Nov. 11—P. L. Ware & Son, Paola, Kan.
Nov. 13—Walter Hildwein, Fairview, Kan.
Nov. 14—F. W. Barber & Son, Franklin, Neb.
Nov. 15—A. P. Wright, Valley Center, Kan.
Nov. 15—C. W. Jones, Solomon, Kan.
Nov. 16—Miller & Manderschied, St. John, Kan.
Nov. 17—J. F. Ware, Garfield, Kan.
Nov. 18—George W. Roberts, Larned, Kan.
Nov. 20.—O. M. Furnas, Oxford, Kan.
Jan. 23—T. J. Meisner, Sabetha, Kan.
Jan. 24—A. L. Albright, Waterville, Kan.
Jan. 25—J. H. Hamilton & Son, Guide Rock, Neb.
Jan. 27—A. C. Lobaugh, Washington, Kan.
Feb. 8—T. J. Charles, Republic, Kan.
Feb. 8—H. C. Graner, Lancaster, Kan.
Feb. 8, 1912—George M. Hull and Col. C. E. Bean, Garnett, Kan.
Feb. 9—W. E. Willey, Steele City, Neb.
Feb. 12—Oak Hill Stock Farm, Esbon, Kan.
Feb. 16—J. H. Harter, Westmoreland, Kan.
Feb. 17—A. R. Ryestead, Mankato, Kan.
Feb. 20—R. M. Bunnell, Atchison, Kan.
Feb. 20—E. E. Logan, Beloit, Kan.
Feb. 21—W. A. Prewett, Asherville, Kan.
Feb. 22—C. W. Jones, Solomon, Kan.
Feb. 23—J. J. Hartman, Elmo, Kan.
Feb. 27, 1912—L. R. McClarnon, Bradyville, Iowa.
March 6—T. M. Willson, Lebanon, Kan.

Duroc Jerseys.

Oct. 9—E. W. Davis & Co., Glenwood, Mo.
Oct. 17—Pearl H. Pagett, Beloit, Kan.
Oct. 20.—J. B. Davis, Fairview, Kansas.
Nov. 3—Grant Chapin, Green, Kan.
Nov. 2—Frank Elder, Green, Kan.
Nov. 7.—W. E. Monasmith, Formoso, Kan.
Jan. 30—Ward Bros., Republic, Kan.
Jan. 31—W. E. Monasmith, Formosa, Kan.
Feb. 1—Geo. Phillippi, Lebanon, Kan. Sale at Esbon, Kan.
Feb. 7, 1912—Frank Elder, Green, Kan.
Feb. 2—Rinehart & Son, Smith Center, Kan.
Feb. 3—W. C. Whitney, Agra, Kan.
Feb. 8.—J. B. Davis, Fairview, Kansas.
Feb. 13—J. O. Hunt, Marysville, Kan.
Feb. 14—Thompson Bros., Garrison, Kan.
Feb. 15—Grant Chapin, Green, Kan.
Feb. 27—W. T. Fitch, Minneapolis, Kan.
Feb. 28, E. P. Flanagan, Chapman, Kan.

O. I. C. Swine.

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

Double Standard Polled Durham Bulls.

In this issue Frank Michael of Erie, Kan., is advertising an extra good Polled Durham herd bull. This bull is fit to head any herd and a valuable breeder. Please look up ad and write for price. Kindly mention the Kansas Farmer.

Robison's Percherons.

J. C. Robinson, owner of the Whitewater stock farm, will take out to the leading fairs a valuable string of young stallions and young mares, mostly sired by Champion Casino. Don't fail to see this string of horses when attending Topeka and Hutchinson fairs.

Real Estate Bargains.

In this issue Mr. M. T. Spong of Fredonia, Kansas, is advertising a valuable farm in Wilson county. Mr. Spong is one of those careful and reliable real estate men. Wilson county is one of the good farming counties. Anyone wanting a new home might do well to look up ad. in this issue or write Mr. M. T. Spong at Fredonia, Kan.

W. E. Long, breeder of big Poland Chinas located at Meriden, Kansas, writes that the pigs are coming along all right and that he will have an unusually good bunch for his fall sale. He states that his yearling boar King Mastadon 2nd has made a marvelous growth and now weighs 600 pounds in breeding form, with a frame for at least 800 pounds.

Mr. O. A. Tiller, owner of Grandview Herd of Pawnee City, Nebr., and one of Nebraska's prominent breeders of Shorthorn cattle and Duroc Jersey swine, will have a high class offering for the fall trade. Mr. Tiller's herds are high class and breeders will make no mistake in selecting breeding stock from Grandview herds.

Clarence Dean of Weston, Mo., one of Missouri's enterprising breeders of Big Type Polands writes us that his herd is doing nicely. Mr. Dean's Mastodon Polands are becoming famous among the breeders of the big kind throughout the country. He is offering an extra fine lot of spring boars, also a number of toppy fall boars.

Col. Kinney.

One of the Kansas Auctioneers that has been making good and saying but little about it for several years is Col. F. E. Kinney of Oketo. Col. Kinney is a giant physically, has a finished education, knows values and is a gentleman wherever met. He has made more sales than any other auctioneer in his part of the state. He owns a fine well improved farm and keeps in touch with live stock conditions. He has made sales for a dozen years with ever increasing success and today ranks among the state's leading salesmen. When booking your sale consider Col. Kinney. When writing him kindly mention Kansas Farmer.

Mr. C. W. Lamer of Salina, Kansas, the well known breeder, and importer of Percheron and Belgian horses, sailed from New York Aug. 3rd for France. On this trip Mr. Lamer expects to purchase about 50 head of high quality stallions and mares, one of the best lots he has ever imported. He is recognized as one of the leading breeders and importers in the West and last year he imported 113 head of horses. He enjoyed a flattering trade, and owing to the fact that there is in the central west still need of improvement in the form of better horses, Mr. Lamer proposes to spare neither time or expense to aid this worthy project. He expects to arrive in New York with this new importation about Sept. 3rd.

Inter-state Live Stock and Horse Show.

The Inter-State Live Stock and Horse Show at St. Joseph, Mo., is always one of the biggest, and best annual Stock Shows held in the West. This year the show to be held Sept. 25th to 30th will be no exception, and from present prospects the show will be bigger and better this year than in former years. The entries are coming in rapidly, and the early entries exceed those of former years and there is every indication that the 1911 show will be a record breaker. The announcement will be found in this issue of the Farmer and exhibitors desiring to make entries should note that entries close Aug. 31st.

Reystead Writes.

A very interesting letter recently received from Mr. A. R. Reystead, the successful breeder of strictly big type Poland Chinas, reveals the fact that Mr. Reystead has had a very successful season so far as getting the growth out of the pigs is concerned. Mr. Reystead states that he has an unusually choice lot, many good enough to show. Some of them weigh 150 pounds. There are 80 and all of them doing fine. With such a fine lot of exceptionally well bred pigs, the blood having been secured at such a cost, Mr. Reystead has a right to expect some very appreciative buyers at his October 21 sale. Mr. Reystead closes his letter with the news that he is leaving for a short trip to the mountains on his honeymoon. Kansas Farmer extends congratulations.

A Veteran Breeder Visited.

A Kansas Farmer fieldman recently visited the old time Duroc Jersey breeder, Mr. J. B. Davis of Fairview, Kan. Mr. Davis has at this time one of the best herds to be found in Kansas. His spring crop of pigs number about 100, sired by the boars Herod 63919, Chief Col. and Kansas Champion 123611, three of as good boars as can be found in any one herd in Kansas. Herod is a son of Monarch, he a grandson of Prion 2d. The dam of Herod was J. B.'s Model, a daughter of old King of Cols. Chief Col was sired by Waveland Col. and is a line bred Col. boar. Kansas Champion was sired by Son of Champions and his dam was Goldie by Dictator. Mr. Davis has one very promising litter of four boars and one gilt sired by Orion chief, grand champion boar at St. Louis World's Fair, their dam is a daughter of the noted prize winner B & C's Col. Mr. Davis has a lot of the best tried sows that can be found in any herd, they are very large and have extra backs and strong limbs. When writing him about the hogs mention Kansas Farmer.

Joe Schneider's Poland Chinas.

This week we start advertising for Joe Schneider, one of the well known Poland China breeders of Kansas. Mr. Schneider at his farm near Nortonville, Kansas, has bred and sold some of the best Poland Chinas ever produced in the state. Mr. Schneider has sold them to the best breeders and hundreds of farmers and smaller breeders have bought stock here. It is the idea of this progressive breeder that the breeder's investment must be such that he can well afford to sell at least a part of the stock produced to the farmer and in recent years Mr. Schneider has rather catered to the farmer trade, congratulating himself upon the fact that he had the type that the farmer wanted. In his breeding operations he has rather departed from the usual custom of breeding. Joe can see the good points in the Perfections, also the Expansions. And it has been his idea to lay aside prejudice and breed and mate the best, regardless of some fashion of the day. And as a result his herd has good quality and plenty of size. Mr. Schneider has a genius for pedigree and can tell you all the blood lines to be found in every hog of note that has existed for the past dozen years. At this time he has on hand about 140 hogs and is selling choice fall gilts and tried sows; also spring pigs at prices that will interest conservative buyers. When writing him kindly mention Kansas Farmer.

Tile Drainage.

Thousands of acres of good Kansas land are producing little or nothing for lack of proper drainage. Tile drainage is a subject of wide importance. Not alone must it be thought of in connection with waste lands, but with cultivated fields also. Many a Kansas farmer is harvesting year after year less from his fields than he should on account of lack of proper drainage. In thousands of fields proper tiling would easily be paid for in a short time through increased crop production with no more expense for cultivation and seed. Just how this works out depends, of course, on local conditions. Every piece of land is a drainage problem unto itself. The W. S. Dickey Clay Mfg. Co., 204 N. Y. Life Bldg., Kansas City, Mo., whose advertisement is on another page in this paper, will be glad to correspond with every farmer and land owner who may have a drainage problem to work out.

Elmdale Farm.

The writer recently visited the fine Poland China herd belonging to Mr. C. S. Moyer, proprietor Elmdale farm, located at Nortonville, Kansas. Mr. Moyer is one of the very successful breeders of the state, and in a quiet way has bred and sold some outstanding good hogs. He has been breeding pure breds seven years and in that time several good herds have been established with foundation stock purchased from him. His herd boar Special Builder, winner of grand championship at Kansas State Fair, 1909, is still smooth and active and doing good service in the herd. The spring crop of pigs number about 50, sired by Special Builder and Rambler. They are out of a class of sows that would be approved by any good hog man. They have more quality than is usually seen and at the same time have size enough. They are the easy feeding, quick maturing kind. Mr. Moyer has always been a good buyer and a very careful breeder when it came to selecting breeding stock, whether at the ringside during a public sale or selecting from among gilts bred on the farm. Mr. Moyer is one of the progressive farmers of his part of the state. He has just purchased a silo and will erect it in time for the crop now growing. If you want to buy a dandy fall boar at a reasonable figure, write Mr. Moyer quick. He has 1 good ones. Please mention Kansas Farme

Harvey's O. I. C. Herd.

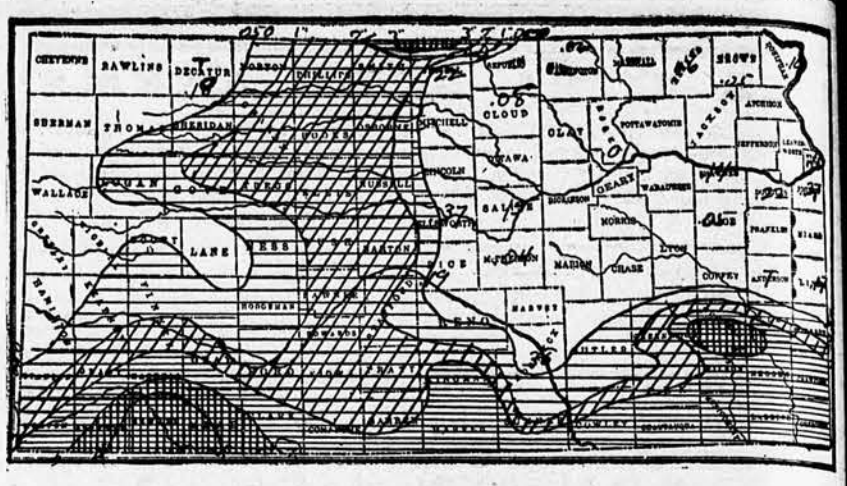
J. H. Harvey of Marysville, Mo., own one of the very fine herds of white hog in the West. A veteran breeder of pur bred hogs, he selected as the foundation fo his O. I. C. herd only the best blood an was careful to get the best in individua and the result is a herd that is second t none. The head of this herd is Jumbo 2nd 7880, west O. I. C. record, sired by Jumb 14035, Nat. Rec'd, First Dam, Goldie 220 Nat. Rec'd. Jumbo's Sire was Broth Allen 18347 O. I. C.—Jumbo was a pri winner at Iowa State Fair, 1909, and as 2-year-old weighed almost 1,000 lbs., an was exhibited at Iowa State Fair at 3 ye old and weighed 1,210 lbs. Jumbo 2nd a splendid individual of the great big me low kind, big bone, extra fine back, fi head and ears, and is an allround big class boar that has proven an excellen breeder. Among the sows of this her are Alvey Sweet, 469 W. Rec'd., also recor ed in O. I. C. Rec'd—this sow was sire by Frostboy, 20712 O. I. C., Dam, Alve Bess, 22404 O. I. C., bred by Alvey Bro of Meriden, Kans., breeders of the famou Kerr Dick and Big Mary. Lady Ella, 12 O. I. C., also recorded in America—sired b Kerr Garnett, 17167 O. I. C., dam, Nebrask Bell 20191 O. I. C.—Kerr Garnett will be re membered as the boar that sold for $62 Crescent Daisy 10th 1082, sired by Ker Wizzard, 19497 O. I. C. Kerr Wizzard wa sired by the noted show boar Kerr Dic Barber Girl, 1085 West, also recorded i Standard, sired by Mahaska Chief, 18727 Standard—Dam, Silver Queen 41832—Stand ard—this is a show sow of the finest typ with quality that will lead in any com pany. Nell, 5777 West, also recorded i Standard, sired by Sam White, 18705 Stand ard. This is a very large high-class sow with a record for large litters. She raise 11 pigs in each of last two litters. A larg number of high-class spring pigs is a fea ture of this herd that will interest breed ers. They are from sows that have bee selected for good blood, high class and pro lific qualities.

Double Standard Polled Durham Bull.

The show bull Lord Victor X-61 (258567). This bull is offered for sale by th owner, Frank Michaels of Erie, Kan. Lor Victor was shown at the Topeka State Fai in 1909 and was first in class. He has bee used in this herd for several years and M Michael has several heifers old enough t breed sired by Lord Victor. If you need herd bull, better write for price on Lor Victor was shown at the Topeka State Fai way. Please mention Kansas Farmer whe you write.

KANSAS CROP REPORT

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



UNITED STATES WEATHER OBSERVER'S REPORTS BY COUNTIES.

INCHES: SCALE IN — Less than .50. .50 to 1. 1 to 2. 2 to 3. Over 3. T. trace

Allen—Soil moist. Good growing weather for vegetation.

Anderson—Late crops; corn doing fine. Could stand a little more rain.

Barber—Plenty of moisture. No change in crop situation.

Barton—Local showers fore part of week. Plowing well advanced. Prairie hay and third crop of alfalfa put up.

Bourbon—Latter part of week dry and hot. Pasture good. Lae hay crop fair Corn maturing well.

Butler—Rain fore part of week. Latter part dry and hot.

Clark—Farmers plowing for wheat. Late corn and all feed crops in fine condition. Good rains.

Cloud—Light showers fore part of week. Dry and extreme heat latter part.

Coffey—Light rains needed. Corn still doing fine. Grass taking on exceptional growth.

Decatur—Growing crops still looking well. Extreme heat latter part of week doing some damage.

Doniphan—Dry and hot all week.

Douglas—Not enough moisture for growing crops. Apples falling because of dry weather. Large amount of plowing done for wheat. Considerable rye and wheat sowed into corn. Also corn and other forage planted for fall feed.

Elk—Plenty of rain. Crops of all kinds doing well. Good prospect for corn and kaffir corn.

Ellis—Good weather fore part of week, favorable to forage crops. Week closed hot and windy.

Ellsworth—Weather dry and hot.

Ford—Heavy showers. Very helpful to all spring crops and pasture.

Greenwood—Fine, growing week. Second cutting of alfalfa nearly done. Fair crop.

Harper—Plenty of moisture in ground for present needs. All kinds of vegetation growing rapidly.

Jewell—Heavy rains. Part of corn was damaged by hail. Ground in good shape for fall plowing. Pastures are good.

Johnson—All vegetation doing well. Mo rain needed.

Lane—Cool weather fore part of wee Latter part dry and very hot.

Linn—Will need rain soon. Very warm.

Logan—Dry and very warm.

McPherson—Everything growing wel More rain would be welcome. Plowin mostly finished. Cutting alfalfa.

Marion—More rain needed. Corn doin well. Third crop of alfalfa almost ready t cut. Plowing for wheat almost done.

Nemaha—Still suffering for rain. Ho winds August 8 and 9 dried ground ou rapidly.

Norton—Everything has been doing fin until August 8 and 9. Crops have fire in some spots on account of extreme hea

Pawnee—Rains general over county o August 4 and 5. Plowing advanced furthe than ever before. Corn coming into roast ing ear.

Phillips—Cool first part of week. Every thing coming out, but hail and hot weathe have done considerable damage.

Rawlins—Pastures and all feed crop greatly improved.

Rice—All vegetation is suffering for rai Last half of week has been hot and dr Two or three more hot days would do grea damage to corn.

Riley—Weather dry and hot.

Saline—Very hot again. Heavy rain an destructive hail across north part of count morning of August 7.

Scott—Crops doing fine.

Sedgwick—All crops doing fine.

Seward—Heavy rainfall.

Smith—Destructive hail August 4 and Excessive heat during latter part of wee

Stafford—Good growing weather. Plen of moisture in ground. Plowing for whea in progress.

Wallace—Still dry and hot. Too dry t plow. Range grass short.

Washington—Weather dry and hot.

Woodson—Corn and kafir doing wel Pastures good.

Wyandotte—Rain badly needed in th vicinity.

POLAND CHINAS

POLAND CHINAS

T. T. LANGFORD - JAMESPORT, MO.

eeds the stretchy, big-type kind. A few gilts and sows and aged boars, also ring pigs, sired by Passtime, King Clipton, C Wonder, Brandywine, Big Bill Taft d Pawnee Chief Hadley. Satisfaction guaranteed; hogs as represented; everything corded before shipped. T. T. LANGFORD, Jamesport, Mo.

DEAN'S MASTODON POLAND CHINAS

Mastodon Poland China hogs, the big-boned type that will weigh, when mature, 0 to 1,000 lbs.; Mastodon Price, sired by A Wonder, leads this herd. A number of lect fall boars for sale, also toppy spring boars. If you want the right kind they e at Quality Ridge Farm. Phone me at Dearborn, Mo; Railroad Station, New Mar-t, Mo. Satisfaction guaranteed; stock sold worth the money.
Address CLARENCE DEAN, Weston, Mo.

LONE ELM POLAND CHINA HERD
J. M. Pemberton, Fayette, Mo.

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

GILDOW'S BIG TYPE POLAND CHINAS

erd headed by Big Bill Taft and Pawnee Chief Hadley. Choice lot of spring pigs for ale; pairs or trios no kin, also a few extra good sows and gilts either bred or open. ur prices are right. Write DR. JNO. GILDOW & SONS, Jamesport, Mo.

POLAND CHINA HOGS FOR SALE.
everal fine males and females; spring ers; out of gilts and sows of the G. W. berts prize winner herd; will exchange of the males for another male; prices nt.
THOS. DARCEY, Offerle, Kan.

HILDWEIN'S BIG TYPE POLANDS.
aded by Kansas Leader by Union Leader, isted by a grandson of Bell Metal; sows Expansion, Hadley, Tecumseh and other type breeding; choice lot of spring pigs.
ALTER HILDWEIN, Fairview, Kansas.

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

eisner's Big Smooth Poland Chinas
aded by Metal's Choice by Mo. Metal, he Bell Metal. Eighty early spring pigs ed by this boar, Expansive, Big Price, Thomas and other good sires. Dams herd are big and motherly and have the t kind of big type pedigrees. Visitors come.
T. J. MEISNER, Sabetha, Kansas.

STRYKER BROS.' HERD POLAND CHINAS.
The greatest show and breeding herd in West. Write your wants and they will ase you. Buy the best and make the st. They breed the kind that win; the d that you want. Address
STRYKER BROS., Fredonia, Kan.

AIRVIEW POLAND CHINAS
For sale, boars fit to head herds, sired by Hadley, Correct Thickset and Triple Ef-t; also 90 choice spring pigs. For descrip-n and price write
F. L. WARE & SON, Paola, Kan.

ANDERSON'S BIG TYPE POLANDS.
Headed by Clay Jumbo 54925, one of the t and biggest boars in Kansas; sows of al merit; 70 good spring pigs to choose m. Write quick.
J. W. ANDERSON, Leonardville, Kan.

BIG-TYPE POLAND CHINA BOARS.
Sired by Bell Expand; only the best re-ved for breeders; also 5 choice Shorthorn lls, Scotch and Scotch topped; inspection ited.
S. B. AMCOATS, Clay Center, Kan.

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

G HADLEY, BIG HUTCH AND EXPANSION BLOOD
edominate in my herd. Herd boars: tch Jr. by Big Hutch and King Hadley by Big Hadley. Among sows are Gran-tta, litter sister to Bell Metal; Pan Prin-s, weight 725 lbs.; Mollie S., 750 lbs., and es Corwin, the dam of Expansion See, the gest boar ever owned in the West. 90 oice pigs farrowed to date. Visitors al-ys welcome.
C. W. JONES, Solomon, Kansas.

iddle Creek Poland Chinas
For Sale—Few large type fall boars sired Monarch Mogul out of my best sows. ey are herd headers and priced to sell. rite at once.
W. H. EMENS, Elmdale, Kansas.

Big Boned Poland Chinas
Forty big, stretchy boars and gilts for le sired by the most noted boars, Big Had-, John Ex., King Hadley and John Long and out of strictly big type sows. Write once; 200 head in herd.
CHAS. Z. BAKER, Butler, Mo.

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

EYSTEAD'S BIG-TYPE POLANDS LEAD
75 choice early farrowed pigs to select om; the blood of Hutch, Commander and ther big sires; sows selected from many ading herds.
A. R. REYSTEAD, Mankato, Kan.

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.

AUCTIONEERS

LEARN TO BE AN AUCTIONEER
Our thoro, scientific mail course is endorsed by the peer auctioneers of the world. Write for catalogue.
NATIONAL AUCTIONEERING SCHOOL OF AMERICA, Dept. 100
LINCOLN, NEBR. GEO. E. DAVIS, Mg

Learn Auctioneering by Mail and should you ever wish to attend
our school in person, amount paid on mail course will apply upon tuition here. Will hold next term Aug. 7th, at Trenton, Mo. The largest school of the kind in the world.
MISSOURI AUCTION SCHOOL, Trenton, Mo.

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

COL. FRANK REGAN Esbon, Kansas.
Live stock and farm sales auctioneer. Pure bred sales a specialty; satisfaction guaranteed. Ask those for whom I have sold. Several desirable open dates. Write, phone or wire.

COL. N. S. HOYT
MANKATO, KANSAS.
Pure Bred Stock and Large Farm Sales a Specialty.

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

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

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

W. C. CURPHEY Salina, Kansas. LIVE STOCK AUCTIONEER
Write, phone or wire me for dates.

OHIO IMPROVED CHESTERS

Improved Chester Whites
Am offering a choice lot of spring pigs, bred for size, bone and quality; young herds a specialty; write your wants; have an extra-good, well-improved
Stock & Grain Farm for Sale Cheap for particulars write,
R. W. GAGE, R. D. 5, Garnett, Kan.

MOSSE OF KANSAS
Kansas Herd of Improved Chester Whites. Grand Champion Sow Kansas State Fair.
ARTHUR MOSSE,
R. D. 5, Leavenworth, Kansas.

WORLD'S FAIR O. I. C's
We sell blood of the World's Fair Grand Champion and other famous winners. Write for prices on spring pigs and bred sows. Address
L. L. FROST, Box H, Mirabile, Mo.

O. I. C. SWINE.
Of both sexes from animals that combine size, quality and quick maturity; we carry the finest blood lines in America; prices reasonable; express prepaid.
J. F. HAYNES, Grantville, Kan.

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

BERKSHIRES

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

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

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.

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 broad-backed; also a few ewes; all to go at dry weather prices.
Write J. W. ELLIOTT, Polo, Mo.

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.

FIELD NOTES.

Home Run 2d is the herd boar now used at the Wrightwood farm, at Valley Center, Kan. He is one of the greatest individuals ever owned at the Wrightwood farm. He is by the great son of the noted Spellbinder, Home Run. Home Run was a boar of extra size and quality. Pond Lily, the dam of Home Run 2d, once sold for $500. She is a daughter of the cimmplon Chief Sunshine 2d, also of Choke Cherry, the dam of the champion Prince Albert. By this cross

we have a black United States bred boar. He is a hog of great size, and has that quality and smoothness that many of the big type of today have not. He is out of a litter of 10. He has a wide, deep body, low ham, straight back, with a high crest. He is the best-shaped big hog we know of This hog, with a herd, will be shown at Topeka and Hutchinson fairs this fall. Don't fail to see him.

A Valuable Herd of Herefords Sell Nov. 10.

We wish to announce to our readers that on Nov. 10th Thos. Crawford, the well known Hereford breeder of Butler, Mo., will sell his entire herd. Through intelligent selection and painstaking care in the improvement of Standards for 15 years, Mr. Crawford has built up this herd to a high level of uniform merit. The blood of Beau Brummel is strongly represented in this herd. Fifteen good bulls, 30 breeding cows, 20 yearling and 2-year-old heifers and about 20 choice calves will be offered. The calves are largely by his good herd bull, Santa Claus 273826, a son of Beau Brummel 195154, and they are a grand lot of young things. Among the bulls to be offered are several herd header prospects. The breeding cows are the kind that produce the best of calves and are regular breeders. Every cow on the farm of breeding age raised a calf this year and will be safe in calf by sale day. We consider this a valuable herd for any prospective purchaser to look after and arrange now to attend this sale. Watch for further mention in Kansas Farmer.

Col. C. E. Bean Poland Chinas.

One of the prosperous herds of Poland Chinas in Kansas is owned by Col. C. E. Bean of Garnett, Kan. The blood lines as well as individuals can not be excelled. There is 10 brood sows in this herd that we do not know where we could find any better. They are large and smooth, with all the quality any one would want. Big Nancy by Big Blain, out of Eva by What's Ex. Kansas Queen 2d by Nebraska King, out of Kansas Queen by Long Chief.

Pansy Pan by Expansion—out of Orphan Girl by Big Expansion. Kansas Beauty by King Blain out of Big Beauty 2d, by Long John. Shaw Lady by O. K. Price, out of Standard Lady. Big Beauty 2nd by Long John, out of Mollie L—by Royal Chief. Big Beauty 2nd is probably the best sow in the herd and the Col. has refused $200 cash for her. Queen Likeness 3rd by Expansion John out of Kansas Queen 2nd is in the same class. Miss Bell by Bell's Chief, out of Lady Hatch—and Sallie Look by Expansion's son are equally as good. The pride of the farm is Loyola Garnett by Blain's Wonder and out of Kansas Queen 2nd. This sow is one of the best we know of and she cost Col. Bean $240. She is raising seven fine pigs by The Lion, one of the herd boars used in the herd. Col. Bean will sell a number of his best fall and spring gilts in a fall sale jointly with G. M. Hull on Oct. 18th. Col. Bean is an able auctioneer and a live wire in the breeding business. It will pay one to visit his herd and carefully inspect the grand herd of brood sows.

C. A. Wright's Durocs.

C. A. Wright, the veteran Duroc breeder of Rosendale, Mo., has a fine herd of youngsters this year and his offering for the fall trade will be strictly high class—the choice from a large number of spring pigs. The pigs were sired by his two fine herd boars, Model Critic, 94839 and Oregon Lad, 105379. Model Critic was sired by Harding's Choice 77179, he by Jumbo Critic; his dam was O. S. Model 36772. Oregon Lad was sired by King of Oregon, he by Prince Wonder, dam Lulu U. 218440, sired by Heirloom. Both of these boars have proven excellent breeders. Mr. Wright also has a number of pigs sired by I Am Bell's Model, 106115, out of W. L. A's choice Goods Sons, and a litter sired by Grandview Chief from a Kansas Wonder sow; also a very fine litter from a daughter of Proud Zeda, one of the very few Proud Zeda sows living. His sow herd is one of the best in the west, made up of Buddy K, Helen Blazes, Top Notcher, Orion and sows of other popular and tried blood lines. Mr. Wright has had years of experience in breeding and selecting breeding stock, and every individual sent out from the herd is strictly high class, as he buys nothing but that kind and will permit only that kind to go out from his herd. It will be to the interest of Duroc breeders, desiring new blood, to watch for Mr. Wright's announcement, which will be made in a short time.

The question of time saving in the removal and resetting of solid tires is one of considerable importance to the users of motor vehicles of the heavier type. Therefore a recent illustration showing results obtainable in this direction through the demountable tire developed by the United States Tire Company should prove especially interesting. After having been run throughout the entire winter a tire of the United States brand was removed and put back on the wheel in twenty-six minutes, and this record was accomplished without any special effort at speed having been made. The importance of this demonstration to the operator of a motor truck rests in the fact that instead of being compelled to lay his car up four or five hours while tires are being changed, he is now enabled to accomplish the work in a very short space of time. The tire can be put on under stress in not more than fifteen minutes. Another consideration worthy of mention is the fact that in this style of tire equipment it is not necessary to remove the wheel when making changes. Dual tires, likewise, are equipped the same way and this fact is deserving of special attention because it will result in not only a saving of time, but an actual saving of money as well. Every time a wheel is taken off, unless the work is done by an expert, the adjustment of bearings is apt to be poor and the mechanism of the vehicle damaged as a result.

Rye and Chinch Bugs.

"A little patch of rye will raise enough chinch bugs to ruin every bit of corn in the country," writes a Franklin county subscriber. "There is no defense against them; you just have to sit by and watch them eat up your corn."

These words were contained in a letter in which Kansas Farmer was criticised for urging the sowing of rye for fall and winter pasture. Early-sown wheat will harbor chinch bugs freely as well as rye. The thick growth of grass and weeds along the roads and fences are a successful harbor. A dozen other places and conditions are as effective as rye. Yet these are not disposed of.

Needed Facilities in Sight.

Contract has been let for the first wing of the new agricultural hall of the Kansas State Agricultural College. The completed building will cost $500,000. This wing costs $97,000. The new building will be used for instruction in animal husbandry, soils, farm crops, milling industry. In one corner is to be a complete modern flour mill, standard in every department, though of small capacity, to study the best ways of milling Kansas wheats. This mill will be inclosed in fireproof walls to prevent any danger to the other parts of the structure. A slaughter house, also, will be built in the new hall for experiments and instruction in killing, packing and curing meats. The first floor contains the cold storage and curing rooms.

This wing will contain a stock judging pavilion, to be ready by October 1, so that students entering this fall will have a new comfort for this department of their work. The main building will not be finished for possibly a year.

HORSES AND MULES

REGISTERED HORSES

O. K. BARNS, SAVANNAH, MO.,
W. E. Price, Proprietor.

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

THE BEST IMPORTED HORSES, $1,000 each. Home-bred, registered draft stallions, $200 to $600 at my stable doors. Address **A. 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-FRIESIAN CATTLE.
Up-to-date Poland China hogs. Write your wants.
H. N. HOLDEMAN, Meade, Kans.

ANGUS CATTLE

BIG SPRING ANGUS CATTLE.
Jasper Auldridge & 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 accurately 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 Oomeri'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. 61316; the dam is Ruby's Fontaine No. 212934, a 45-pound cow recently sold for $350; gave 45 pounds of milk per day with second calf, milk testing 5½ per cent, and with last calf at the age of 6 years gave 44 pounds of milk for a long period of time, milk testing 5½ per cent. The dam and grand dam of this cow are both 40-pound cows. Ruby's Financial Count is 3 years old and fit to head any herd. Financial Count is a half 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. Address
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 LEAF SHORTHORNS

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

SHORTHORN BULLS

20 head strong, vigorous young bulls, 12 to 16 months old, will be priced single or in car load lots. Also a few highly bred Scotch bulls, well suited for herd headers, priced to sell.
W. A. FORSYTHE & SON,
Greenwood, Jackson County, Missouri.

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

HERD BULL For Sale

Victor Orange 312530, 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 profitable. A few young bulls and some females for sale. Write **E. S Myers, Chanute, Kansas.**

HEREFORD CATTLE

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

SPRING CREEK HEREFORDS.
Headed by Christy 234417, Prairie Donald by Beau Donald 7th, and Sir Morgan by Onward 18th. Cows of Anxiety 4th, Hesold, 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 2,000-pound sire. Visitors welcome. **J.B.RESER, Miglow,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 Percheron Horses. Young stallions, bulls and heifers for sale.
Geo. Groenmiller & Son, Pomona, Kan.

FOSTER'S RED POLLS.
Choice bulls and heifers 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 wait 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 wait; investigate this today.
F. J. SEARLE, Oskaloosa, Kan.

FOR SALE

..REGISTERED HOLSTEIN BULLS, five to ten months old, from best heavy milk-producing families. Send for list.
BIGELOW'S HOLSTEIN FARM,
Breedsville, Mich.

Rock Brook Holsteins

20 bulls ready for service at $75 to $100. Bull calves $40 to $75. Pedigreed and tuberculin tested.
ROCK BROOK FARMS,
Station B., Omaha, Neb.

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

WOODCREST HOLSTEIN-FRIESIANS.
Twenty registered bulls from 1 month to 2 years for sale: dams A. R. O. or A. R. O. breeding. On Rock Island, 30 miles east of St. Joseph, Mo., half mile from station.
S. W. COOKE & SON, Maysville, Mo.

HOLSTEIN CATTLE—M. E. Moore & Co., Cameron, Mo., breeders of Holstein-Freisian cattle. Ten head of high-class cows for sale, some with A. R. O. records; herd headed by the celebrated Sir Johanna Colantha Fayne 42146.

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

GALLOWAY CATTLE

FORT LARNED RANCH

REGISTERED GALLOWAYS
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; timestone 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.

RED POLLED CATTLE

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

SCOTCH SHORTHORN BULLS

Twenty head of high-class Scotch and Scotch topped bulls for sale; yearlings 2-year-olds; all bred right and good individuals; also herd bull Victoria Prince 228026—a herd bull with a record as a breeder; all will be sold; worth the money descriptions of stock guaranteed. **GEO. A. ROBINSON, Prescott Ia.**

DUROC JERSEYS

DUROC JERSEY

Rose Hill Herd Of Duroc Jersey Hog

We have for sale two choice yearling boars, two December boars, early spring p of both sexes, and a few yearling sows that raised good litters, all from large, prol sows and by mature boars of State Fair prize blood.
S. Y. THORNTON, Blackwater, Mo.

12 Extra Choice Duroc Boars For Sa

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

UNITY CHESTER WHITE HERD.
Breeder of strictly high-class Chester White hogs; a number of extra-high-class spr Boars for sale; a selected lot of show prospects. Write for breeding and descripti of stock; all breeding stock guaranteed as represented. Prompt reply to all inquir
Address, **J. N. George, Hopkins, Mo.**

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

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

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

LITTLE OAK DUROC JERSEY HERD.
Headed by Red Raven, by Agra Topnotcher; sows of choice breeding; 100 spring pigs sired by 5 different boars.
GEO. P. 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, mostly 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.
FRANK ELDER,
Green, Kan.

POLAND CHINAS

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

MOONEY CREEK POLAND CHINA HERD.
The biggest of the big. Wonder and Mastadon strains. Herd headed by Big Osborne. Pigs 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.
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 description, 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 41317.
A great son of King Look offered for sale at a real bargain; fully guaranteed. See his get and you will want him.
W. V. HOPPE,
Stella, Neb.

6—BIG TYPE POLAND BOARS—6
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

STONE'S BIG TYPE POLAND CHI
Headed by Smith's Hadley by Mam Hadley, he by Big Hadley. Sows of Ma Monarch, Expansion, etc., breeding. established 7 years. Choice spring pig sale. Sam Stone, Leonardville, Kan

WILLFOUNG'S POLAND CHINAS L
Breed both big and medium type. Herd Big Mogul by Moguls Monarch and Fill ter by Meddler 2nd. Over 100 choice s pigs to select from. Also summer and gilts. Write for what you want. J. **WILLFOUNG, Zeandale (Riley Co.), K**

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

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

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

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

MILLIGAN'S POLAND CHINAS.
Tried sows with or without litters; bred or open; weanling pigs, either biggest of the big; also medium type; rock prices. Phone Idana 6822.
W. C. MILLIGAN, Clay Center, Kan.

CHOICE FALL GILTS FOR SALE

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

Highview Breeding Farm

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

A few choice sows bred to
EXPANSIVE 34723
For fall litters for sale now.
Prices right.
H. B. WALTER, Effingham, Kansas

Graner Has Fall Boars For S

sired by Guy's Monarch and out of gr big sows. The tops saved from a big c Out of sows noted for their size and bre ing. Mention this paper when writing.
H. C. GRANER, Lancaster, Kansas.

CRESCENT HERD BIG TYPE POLA CHINAS, headed by R. B.'s Hadley, a gra son of Big Hadley. Sows large and moth and carrying the blood of noted big s choice lot of spring pigs by different bo Farm 5 miles N. W. of town. **R. M. BU NELL, Atchison, Kansas.**

GREEN LAWN HERD
Big-boned Poland Chinas; herd headed Big Spot, Major B. Hadley; a choice lot spring pigs for sale out of large, mat sows; write us what you want or come a let us show you.
A. J. ERHART & SONS, Adrian, Mo.

BIG POLANDS.
John B. Lawson's Herd, Clarinda, Iow
The big, smooth kind. Pigs for sale s by Long King's Equal. Book you o early. Pigs farrowed in February and e in March.

70 CHOICE POLAND CHINA PIGS
To select from; also tried sows and g bred or open; the big, smooth, easy fe ing kind.
JOE SCHNEIDER, Nortonville, Kan.