

KANSAS FARMER

FOR THE IMPROVEMENT OF THE FARM AND HOME

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Training Our Future Home Makers

Educating Girls Insures Happy Childhood, Vigorous Manhood and Peaceful Age.

By MARY PIERCE VAN ZILE

As each hour has its duties and each season brings its change of work, so each decade brings its own problem for solution. Our country has taken up and solved, one after another, the great questions which have determined its character and established it the foremost nation of the world. There will always be problems to meet and each generation has its responsibility, and ours is no exception. I wish now to direct your attention to one of these vital questions—the answer to which will so largely determine the solution of all other problems: that of the education of our girls—the mothers of the future generations.

As a people, there is nothing in which we take a juster pride than our educational system. It is our boast that every girl and boy has the chance to get a school training, and we recognize it as a national duty to furnish this training free. In education the first forward movement was to secure private schools; then came the free primary schools, followed by the establishment of academies and colleges. Free high schools, normal schools, state colleges and universities came into existence as fast as there was evidenced the need for them. Each type of school is a spoke in the educational wheel which is gradually being perfected, and each spoke is essential to give strength to the whole.

Education is the training we give young people to make them ready for whatever duties may come to them. To give this training it is necessary to develop a system under which each individual citizen shall be trained so as to be effective individually and fit to be organized with his fellows so that he and they can work in efficient fashion together. Giving all due credit to the men and women who have made our educational system what it is, we have come to recognize that there must be additional education beyond that provided in the ordinary public school, else this training is not given our youth.

In our schools and among our teachers there has been, and to some extent still is, a tendency to overrate intellectual development as compared with physical training and the formation of character. The school has claimed the child's whole interest for literary pursuits, learning lessons and sedentary mental work. It has not encouraged the child's natural longing and desire for productive work—work in which there is movement and life, and a living connection between theory and practice. There is as great need of working hands as well as brains for the maintenance of life. It is therefore a matter for serious reflection whether it is wise to stifle the desire for work from childhood upwards.

The philosophy which long ruled our educational policy has been so modified by research in the sciences and by development of the industries, arts and professions, that it is now recognized that a perfected educational system must include technical training. Theoretical knowledge does not suffice; it must be accompanied by trained skill or handiwork. The curriculum once confined to classical learning has broadened out so as to cover the practical as well as the the-

oretical. These broader plans have been largely thrust upon the school men and recognition has been forced, but the result is noted in the success attained by combining industrial, technical and scientific studies with the general studies. The result is evidenced in new courses of study for our boys and girls.

At first the mechanic arts were brought to a pedagogic basis; then agriculture, slowly but surely, was brought to a teachable form; and at last home economics has been brought into the schools. It is safe to assume that there are now but few educators who are so conservative as not to be in sympathy with collegiate

education in engineering; most of them have come to believe that agriculture has been reduced to a teachable form; but many still have little faith in the possibility of successfully teaching domestic subjects.

Grant that the system of education in home economics is only in its formative stage; that the lines and methods of work have only been roughly blocked out; that there needs to be much study and much effort to perfect the system and to give it high pedagogical value; we still have the right to urge attention to its merits, for among the questions that are engaging our thought and attention today, certainly none is more im-

portant than that which centers about the problems of our home.

What must be done to maintain the home as the pure source and happy environment of a vigorous childhood; the satisfactory supporter and encourager of manhood and womanhood; the sure solace and refuge of old age? Shall the American home go on to greater perfection, or shall it weaken and lose its hold upon our people? Shall we become simply a vast mass of unrelated individuals? These are the questions that are crying out for an answer.

The home is the center of the universe and the mistress is the center of the home. In her hands are the keys of home happiness. She is the disbursing end of the marriage partnership and on the wisdom of spending depends the financial prosperity of the family; on the efficient home management depends the comfort and happiness of the family; on the proper care and guidance by the mother depend in a large measure the character and life success of the children; in the selection of the food and its preparation, together with the sanitary character and care of the house, depends largely the health of the family; on prompt action in emergencies, on the immediate recognition of disease, and on proper care during convalescence oftentimes depends the saving of life itself.

Housekeeping in the widest sense, the provision of domestic comfort within the home, is the largest single industry known. If progress is to be made in the household, it must be no longer assumed that a home can be well managed by a woman whose reasoning powers have never been cultivated, who has never been taught self reliance and self control, who has no conception of accuracy, who has never acquired the habit of observation, and whose inventive genius and fertility of resource are expended in providing for the pleasures of the day. It should, however, be an accepted fact that being born a woman is not being born a housekeeper, and that she needs the wisest training we can give her to fit her for the most responsible position she can ever hold, that of wife and mother.

It has too long been assumed that the housekeeper is born with an intuitive knowledge of the machinery of the home. Every manufacturer or business man knows the value of his industry, its increasing or decreasing value, the cost of materials used and of service employed. This information is a part of the capital with which he begins business; he does not acquire it by instinct or tradition, but by careful and exact study of all factors involved. It is equally true that a household can not be successfully carried on except through application of the same principles.

The training of a girl should prepare her to meet at any moment any emergency that may arise within her home. There are demands made upon the housewife every hour which call for exercise of reason, judgment, self control, alertness, observation, accuracy, ingenuity and inventive genius. Where shall she get this training if not in school?

To be sure, these things could be taught in the home, but for every girl who is given this training there are

(Continued on page Fifteen.)

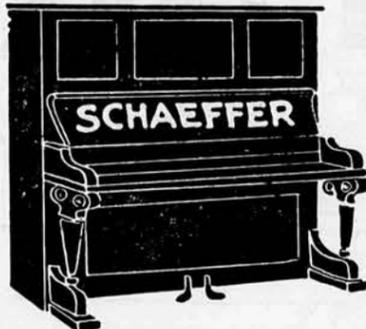


Still Queen---In Kansas

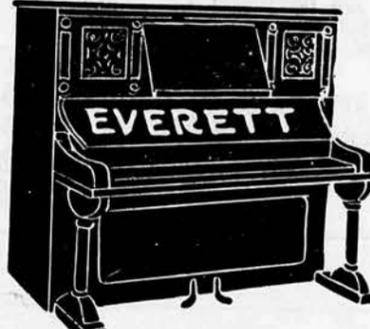
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Schaeffer	350	109	Kellar	250	58
Bradford	290	77	Estey	375	188
Pelton & Co.	315	69	Lyon & Healey	350	148
J. & C. Fischer	375	109	Cramer, new	275	198
Gould & Co.	325	130	Bowen, new	300	217
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Leland	275	111	Brewster, new	300	245
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OFFICIAL KANSAS GRADES.

Under provisions of chapter No. 222, Laws of 1907, the Grain Grading Commission appointed under said act met pursuant to published call at the governor's office in Topeka, Kan., on the 26th day of July, 1910, and established the following grades of grain to be known as Kansas Grades, to be in effect on and after the 1st day of August, 1910.

G. W. Glick,
J. G. Maxwell,
Thomas Page,
Grain Grading Commission.

RULE 1.

Wheat which has been subjected to "scouring," or to some process equivalent thereto, or containing an objectionable amount of rye, shall not be graded higher than No. 3.

GENERAL RULE.

All wheat, corn, oats, barley, rye and Kafir corn that is in a heated condition, souring, or too damp to be safe for warehouse or that is badly bin-burnt, fire-burnt, fire-smoked, or badly damaged, mixed with garlic, onions, or containing live weevil, exceedingly dirty, or where different kind of grain are badly mixed with one another, shall be classed as Sample Grade, and the Inspector shall make notation as to quality and condition, and whenever it is evident that wheat screenings, or other dirt has been mixed into wheat, the same shall not be graded better than "Sample Grade."

"PLUGGED CARS."

Inspectors shall in no case make the grade of grain above that of the poorest quality found in any lot of grain inspected, where it has evidently been "plugged" otherwise improperly loaded for the purpose of deception.

REASONS FOR GRADING.

All inspectors shall make their reasons for grading below No. 2 fully known by notation on their reports. The weight alone shall not determine the grade.

THE WORD "NEW."

The word "New" shall be inserted in each certificate of inspection of newly harvested wheat until September 1 of each year.

REINSPECTIONS.

All orders for reinspections MUST be in the office within the first 48 hours following the original inspection and in no case will grain be reinspected after a lapse of 3 days from date of the original inspection.

KANSAS HARD WINTER WHEAT.

No. 1 Hard—Shall be hard winter wheat, sound, dry, plump and well cleaned, and shall weigh not less than sixty-one pounds to the bushel.

No. 2 Hard—Shall be sound, dry, clean hard winter wheat, and shall weigh not less than fifty-nine pounds to the bushel.

No. 3 Hard—Shall be hard winter wheat sound, dry, may be some bleached, but not clean or plump enough for No. 2, and shall weigh not less than fifty-six pounds to the bushel.

No. 4 Hard—Shall be hard winter wheat, tough, sprouted, or from any cause so

ly damaged as to render it unfit for No. 3 Hard.

KANSAS TURKEY WHEAT.

Hard winter wheat of the long berry, dark amber colored type of the Turkey varieties, shall be classed as No. 1 Kansas Turkey Hard Wheat; No. 2 Kansas Turkey Hard Wheat; No. 3 Kansas Turkey Hard Wheat; No. 4 Kansas Turkey Hard Wheat, and inspection certificates issued accordingly; and the other specifications for each of these grades shall be the same as for Kansas Hard Winter Wheat of the same grade.

RED WINTER WHEAT.

No. 1 Red—Shall be bright, sound, plump, dry and not weigh less than sixty pounds to the bushel.

No. 2 Red—Shall be sound, dry and clean and not to contain more than 5 per cent of Hard Winter or White Winter wheat and weigh not less than fifty-nine pounds to the bushel.

No. 3 Red—Shall be sound, not clean or plump enough for No. 2, shall contain not more than 8 per cent of Hard Winter or White Winter Wheat and weigh not less than fifty-six pounds to the bushel, six pounds to the bushel.

No. 4 Red—May be damp, musty, or skin burned and contain not more than 10 per cent of Hard Winter or White Winter wheat, must be cool and weigh not less than fifty pounds to the bushel.

WHITE WINTER WHEAT.

No. 1 White Winter—To be bright, sound, dry, plump and well cleaned White Winter Wheat, and weigh not less than fifty-eight pounds to the bushel.

No. 2 White Winter Wheat—To be sound, dry, clean White Winter Wheat and weigh not less than fifty-six pounds to the bushel and may contain not more than 8 per cent of Red Winter Wheat.

No. 3 White Winter—Shall include all varieties of White Winter Wheat. It may contain 5 per cent of damaged grains (not bin burned); 10 per cent Red Winter Wheat and weigh not less than fifty-three pounds to the bushel.

No. 4 White Winter—Shall include all varieties of White Winter Wheat, damp, musty or dirty and not more than 10 per cent of Red Winter Wheat and weigh not less than fifty pounds to the bushel.

NORTHERN HARD SPRING WHEAT.

No. 1 Northern Hard Spring—Must be northern grown spring wheat, sound, dry and clean, more than fifty per cent of the hard varieties, and weigh not less than fifty-seven pounds to the bushel.

No. 2 Northern Hard Spring—Must be northern grown spring wheat, not clean or sound enough for No. 1, more than fifty per cent of the hard varieties, and weigh not less than fifty-six pounds to the bushel.

No. 3 Northern Hard Spring—Must be northern grown spring wheat, of inferior

quality, more than fifty per cent of the hard varieties, and weigh not less than fifty-four pounds to the bushel.

No. 4 Northern Hard Spring—Shall include all inferior northern grown spring wheat that is badly shrunken or damaged, more than fifty per cent of the hard varieties, and weigh not less than forty-nine pounds to the bushel.

SPRING WHEAT.

No. 1 Spring—Shall be bright, sound and well cleaned spring wheat, weighing not less than fifty-nine pounds to the bushel.

No. 2 Spring—Shall be sound, clean, of good milling quality and weighing not less than fifty-seven pounds to the bushel.

No. 3 Spring—Shall include all inferior shrunken or dirty spring wheat and weigh not less than fifty-five pounds to the bushel.

No. 4 Spring—Shall include all spring wheat damp, musty, sprouted or for any cause which renders it unfit for No. 3, and must not weigh less than fifty pounds to the bushel.

WHITE SPRING WHEAT.

The grades of No. 1, 2, 3, and 4 White Spring Wheat shall correspond with the grades No. 1, 2, 3 and 4 Spring Wheat, except that they shall be of the White variety.

DURUM (Macaroni) WHEAT.

No. 1 Durum—Shall be bright, sound, dry, well cleaned Durum wheat commonly known as Macaroni wheat, and weigh not less than sixty pounds to the bushel.

No. 2 Durum—Shall be dry, clean, and of good milling quality, and weigh not less than fifty-eight pounds to the bushel.

No. 3 Durum—Shall include all Durum wheat bleached, shrunken, or for any cause unfit for No. 2 and weigh not less than fifty-five pounds to the bushel.

No. 4 Durum—Shall include all Durum wheat badly bleached, smutty, tough, and weigh not less than fifty pounds to the bushel.

PACIFIC COAST RED AND WHITE WHEAT.

No. 2 Pacific Coast Wheat—Shall be dry, sound, clean, may be tainted with smut and alkali, and weigh not less than fifty-eight pounds to the bushel.

No. 3 Pacific Coast Wheat—Shall include all other Pacific Coast Wheat, may be smutty, or musty or for any cause unfit for flouring purposes and weigh not less than fifty-four pounds to the bushel.

NOTE.—In case of mixture of Red or White Pacific Coast Wheat with our home wheat, such mixture shall be graded Pacific Coast Wheat.

MIXED WHEAT.

In case of an appreciable mixture of hard and soft wheat, red and white wheat, Durum and spring wheat, with each other, it shall be graded according to the quality thereof, and the kind of wheat predominating shall be classed as No. 1, 2, 3 or 4 mixed wheat, and the Inspector shall make notation describing its character.

RYE.
No. 1 Rye—Shall be plump, sound, dry and free from other grain, well cleaned.
No. 2 Rye—Shall be plump, sound, clean.
No. 3 Rye—May be shrunken, bleached and not clean enough for No. 2.
No. 4 Rye—To include all tough, musty or dirty rye unfit for No. 3.

OATS.
No. 1 White Oats—Shall be pure white oats, dry, sweet, sound, clean, and free from other grain.

No. 2 White Oats—Shall be seven-eighths white, sound, dry and contain not more than 1 per cent each of dirt or foreign matter or 3 per cent of other grain.

No. 3 White Oats—Shall be seven-eighths white, sound, dry, not more than three per cent of dirt or foreign matter, nor five per cent of other grain.

No. 4 White Oats—Shall be seven-eighths white, tough, musty, or from any cause unfit for No. 3.

RED OATS.
The grades No. 1, 2, 3 and 4 Red Oats shall correspond with the grades No. 1, 2, 3 and 4 White Oats, except that they shall be of the Red variety.

MIXED OATS.
No. 1 Mixed Oats—Shall be mixed oats of various colors, dry, sound, sweet, clean, and free from other grain.

No. 2 Mixed Oats—Shall be mixed oats of various colors, dry, sound, sweet and not contain more than 2 per cent of dirt or foreign matter or 3 per cent of other grain.

No. 3 Mixed Oats—Shall be mixed oats of various colors, sweet, shall not contain more than 3 per cent of dirt or foreign matter or 5 per cent of other grain.

No. 4 Mixed Oats—Shall be mixed oats, tough, dirty, or from any cause unfit for No. 3.

STANDARD WHITE OATS.
Shall be seven-eighths white, sound, sweet and shall not contain more than 3 per cent of dirt or foreign matter or 5 per cent of other grain.

PURIFIED OATS.
All oats that have been chemically treated or purified shall be classed "PURIFIED OATS," and inspectors shall make note of the same on certificates of inspection.

BARLEY.
No. 1 Barley—Shall be sound, bright, sweet, clean and free from other grain.

No. 2 Barley—Shall be sound, dry and of good color.

No. 3 Barley—Shall include shrunken, stained, dry barley unfit to grade No. 2.

No. 4 Barley—Shall include tough, musty, dirty barley.

SPELTZ.
No. 1 Speltz—Shall be bright, sound, dry and free from other grain.

No. 2 Speltz—Shall be sound and dry and not contain more than 10 per cent of other grain.

No. 3 Speltz—Shall be dry, not sound enough for No. 2 and contain not more than 10 per cent of other grain.

No. 4 Speltz—To include all speltz that is dirty, musty or tough.

CORN.
The following maximum limits shall govern all inspection and grading of corn:

Grade	Percentage of moisture	Percentage rotten exclusive of bin burned	Percentage dirt and broken grains
No. 1	15	1	1
No. 2	15.50	5	2
No. 3	18	10	4
No. 4	22

WHITE CORN.

No. 1 White Corn—Shall be pure white corn and sweet.

No. 2 White Corn—Shall be fifteen-sixteenths white, sweet.

No. 3 White Corn—Shall be fifteen-sixteenths white, sweet.

No. 4 White Corn—Shall be fifteen sixteenths white, but shall include tough, musty and damaged corn.

YELLOW CORN.

No. 1 Yellow Corn—Shall be pure yellow corn and sweet.

No. 2 Yellow Corn—Shall be seven-eighths yellow and sweet.

No. 3 Yellow Corn—Shall be seven-eighths yellow and sweet.

No. 4 Yellow Corn—Shall be seven-eighths yellow, but shall include tough, damaged or musty corn.

MIXED CORN.

No. 1 Mixed Corn—Shall be corn of various color and sweet.

No. 2 Mixed Corn—Shall be corn of various colors and sweet.

No. 3 Mixed Corn—Shall be corn of various colors and sweet.

No. 4 Mixed Corn—Shall be corn of various colors, but shall include tough, damaged or musty corn.

KAFFIR CORN.

No. 1 White Kaffir Corn—Shall be pure white of choice quality, sound, dry and well cleaned.

No. 2 White Kaffir Corn—Shall be seven-eighths white, sound, dry and clean.

No. 3 White Kaffir Corn—Shall be seven-eighths white, not dry, or clean, or sound enough for No. 2.

No. 4 White Kaffir Corn—Shall be seven-eighths white, tough, damaged, musty or dirty.

RED KAFFIR CORN.

The grades of No. 1, 2, 3 and 4 Red Kaffir Corn shall correspond with grades of No. 1, 2, 3 and 4 White Kaffir Corn, except that they shall be of the Red variety.

MIXED KAFFIR CORN.

No. 1 Mixed Kaffir Corn—Shall be mixed Kaffir Corn of choice quality, sound, dry, and well cleaned.

No. 2 Mixed Kaffir Corn—Shall be mixed Kaffir Corn, sound, dry and clean.

No. 3 Mixed Kaffir Corn—Shall be mixed Kaffir Corn, not clean, dry or sound enough for No. 2.

No. 4 Mixed Kaffir Corn—Shall be mixed Kaffir Corn, tough, musty or dirty.

MILLO-MALZE.

No. 1 Millo-Malze—Shall be Millo-Malze of choice quality, sound, dry and well cleaned.

No. 2 Millo-Malze—Shall be Millo-Malze that is sound, dry and clean.

No. 3 Millo-Malze—Shall be Millo-Malze that is not dry, or sound enough for No. 2.

No. 4 Millo-Malze—Shall include all Millo-Malze that is tough, musty or dirty.

The foregoing are the rules adopted by the Kansas Grain Inspection Department, establishing a proper number and standard of grade for the inspection of grain, the same to take effect on and after August 1, 1910, in lieu of all rules on the same subject heretofore existing.

D. R. GORDEN,
Chief Inspector,
306 Husted Building, Kansas City, Kan.



KANSAS FARMER

EDITORIAL



TO LIVE BETTER AT HOME.

Following the line of thought contained in the excellent article by Mrs. Taylor, in last week's Kansas Farmer, on the story of one country neighborhood, comes the report of a similar movement for the benefit of country life over a wider range of territory. A meeting was held in another state which had for its object the betterment of rural life. It was organized under the name of the Country Life Institute. The members assumed a knowledge of the economic struggle in which the farmer is engaged and his effort to raise the standard of his occupation, at the same time the duty which he owes to the present generation in producing food for their consumption, must not be overshadowed by the duty which he owes to himself and his family.

This meeting recognized the country church as the social and religious center of the rural districts, but in doing this laid special emphasis on the necessity for the improvement of the country school. Here is a problem that is not fully recognized by the American people. The school system of today is much like it was in the early part of the century. Advancement has been made, both in knowledge and methods, but the fact remains that all of the students of the public schools of today are given the same training, regardless of their abilities or capabilities, and all are trained for the same thing. The school boy of today receives the same training in the country school that his father and grandfather received, and if he elects to remain on the farm he has had the same training as the boy who enters the ministry or becomes a lawyer or practices medicine. Too many of the boys and girls of the country get no schooling beyond that afforded by the district school with its constantly changing teachers, and even this little training leads directly away from the farm and toward commercial life.

In Kansas a partial solution of this great problem has been effected in the establishment of county high schools and consolidated rural schools, both of which have proved their worth, but the other criticism remains in full force. Text books do not lead toward the farm, but distinctly lead away from it as if they had been planned for that purpose. The ethical value of recreation for rural neighborhoods has never been fully recognized, and work along this line is necessary. With a fundamental change in common school text books and methods, which are at the foundation of rural life, and proper attention to recreation in each community, coupled with the work of the farmers' institutes and the self-instruction which is to be gained through high class papers and magazines, the problem of "back to the farm" will have been solved by preventing an exodus from the farm.

As the price of land increases and the cost of labor becomes greater, the value of the crop augments and it becomes more important that maximum crops shall be raised. For these reasons commercial fertilizers are most in demand where agriculture is most intensive. There are also many special crops requiring more of one plant food than another, and the needs of these can best be met by the use of commercial fertilizers. For instance, the results obtained by the use of potash on wheat are remarkable but it is necessary to apply the potash to the ground some time prior to the sowing of wheat in order that immediate results may be obtained. A little cash invested in potash may serve to show the truth of the statement made above and insure the rapid growth of the wheat so as to get it out of the way of both chinch bugs and dry spells.

The Agricultural College is doing demonstration work on a good many county poor-farms, and out in Barton county the field of Kharkof wheat that was put in last fall under direction of the college people thrashed a little over 45 bushels per acre. To show how the farmers of the county appreciate this work and this seed it is reported that the seed-wheat had all been spoken for a month before harvest by the farmers of the county.

With which is combined FARMER'S ADVOCATE, established 1877.
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PICTURES—Good photographs, drawings and plans are especially solicited. Senders' names should always be written on the back of each picture. KANSAS FARMER cannot 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.

THE FARM PAPER UNIQUE.

What would the people of our western agricultural communities do without the farm paper? The city daily cannot fill the place. The country weeklies are not adapted to any class except that of their own building. The magazines are too slow in making monthly appearances. There is entirely too much politics and city street sensationalism in what we call newspapers, to give them right entrance into the homes of the country people. Then, the farm paper has a place all its own. No rivals can enter and destroy its usefulness. It deals with real, practical everyday life that other publications cannot afford to notice. It matters not where I am located nor what my particular duties are, I appreciate the farm paper and read its columns, advertising and all, in preference to the regular news publications and I presume scores of people do the same thing.—J. Shoemaker.

The chief distinction between the functions of farm manure and commercial fertilizers may be stated in a general way to be that farm manure increases crop production by improving the condition of the soil, while the commercial fertilizers act directly as a plant food without materially affecting the soil structure. The function of commercial fertilizers is therefore to supplement the available supply of plant food in the soil by supplying any deficiency which may exist and by furnishing a surplus of food upon which the plant may draw.

The extension department of the Kansas Agricultural College will send speakers to picnics and special meetings in August and judges to fairs. In most cases judging classes will be organized to give the young fellows a hint as to the method of judging stock and produce.

There are now in the United States 41,089 rural routes which were operated at a cost of \$37,260,000 in the year ended June 30, 1910. That the moral standard of the rural route carriers is high is shown by the fact that, out of all this immense number, only 175 were dismissed for cause last year.

THE FARM WATER SUPPLY.

How do you supply your farm buildings, pastures, feed lots and house with water? Does the windmill and tank answer every purpose or is the gasoline engine better? Can you use the underground pressure tank to advantage with wind or hand power or must a gasoline engine be had? What other uses do you have on the farm for the gasoline engine besides pumping water? From what depth of well will the gasoline engine pump water? KANSAS FARMER would like your experience with the gasoline engine and to know whether its use does in any way serve to answer the hired help question. Send photographs if you have good ones.

CEMENT FENCE POSTS.

In certain sections of western Kansas the farmers are favored by having access to a peculiar rock formation which is easily quarried in such form as to be available for fence posts. This circumstance has been particularly valuable to them because they had no timber from which to cut posts and were dependent largely on the purchase of those which must be shipped in by railroad. Long use has shown, however, that these posts, while very much more valuable than any other available material, do not last well. The action of the moisture and frost at the surface of the ground causes them to scale and waste away at this point, so that they ultimately break off and become too short for re-setting.

Questions are asked as to how best to build cement posts, and in answering it should be borne in mind that permanency is one of the cheap objects sought. It may not be necessary to use such posts for cross fencing, but the boundary fences could be built of permanent material and cease to be an item of expense or trouble.

The question of timber fence posts is practically as serious in eastern as well as western Kansas because of the decrease in our timber supply, and while we are told that timber may be treated with preservatives, which will greatly increase its length of life, this appears to be yet only experimentally true and still does not give a permanent post. By using concrete posts that are properly made and heavily galvanized wire, the question of fencing on the farm may be settled for all time.

In many sections attempts have been made to produce posts by planting of rapid growth trees such as box elder and cottonwood, but this has produced doubtful results at best. The catalpa groves where successfully grown have proved eminently satisfactory, provided the Speciosa has been planted, but even with these a considerable time is necessary before fence posts become available.

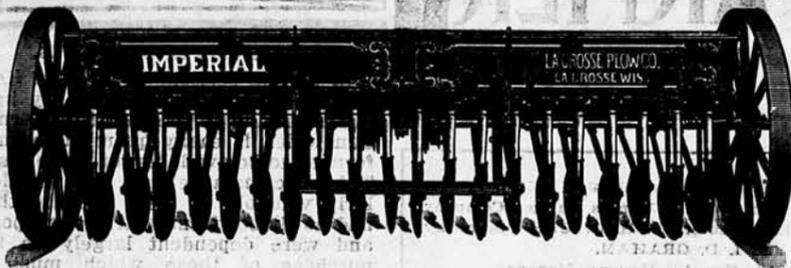
The question of material for fence posts is one which is of interest to farmers of all parts of the state, and while it is admitted that those who had the foresight to plant catalpas or osage orange have their problems at least partially solved. Those who use the latter tree have constant trouble from its weather checking and the loosening of the staples. No tree that has yet been used has brought satisfaction when considered as a permanent material for fence posts, and it now seems that either metal or cement concrete must be depended upon to solve the problem of permanent fencing, and of these two materials the concrete is much the cheaper, more satisfactory, and more permanent.

The groans of the crop killers during the recent hot spell sound just like they did last spring when they said we should have a year without a summer. These crop killers don't feel good unless they hurt.

Mr. Geo. West Maffet of Lawrence, Kan., calls attention to the claim made by a lady physician of Los Angeles, Cal., that she has discovered some remarkable curative properties in the alfalfa plant. Her claim is that by electrolyzing the alfalfa and converting the curative principal into a tablet form she has a remedy for all nervous ailments from delirium tremens to "that tired feeling." Alfalfa is a wonderful plant and its successful growth and ordinary use in Kansas entirely does away with any need for a remedy for either of the diseases named.

The vagaries of the season have served to furnish more object lessons as to right and wrong methods than usual and farmers are profiting by them. Corn that was well cultivated in well prepared ground has withstood the excessive temperature and gives promise of a crop in many localities. It has at least served to show that there are four essentials. The deep plowing of the soil to create a cistern for the storage of moisture. The planting of well selected seed. Frequent and mainly shallow cultivation to kill weeds and produce a dust mulch for the conservation of moisture; and the use of manure.

IMPERIAL HORSE LIFT DRILL



ONLY DRILL MADE WITH HORSE LIFT

whereby the horses actually lift the disks at the ends, all the driver has to do is to shift a small lever; the horses do the rest—no pulling and tugging at back-breaking levers with the IMPERIAL. This feature is full protected by patents and cannot be used on any other drill.

Our adjustable drag bar (another patented feature) permits of the lining up of the drag bars in the field with a common wrench; with this adjustment you are absolutely sure of a uniform distance between the rows.

SEND FOR CATALOGUE No. 3.

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Fuller Automobiles—solid tires. Only practical car for country roads. Descriptive catalogue for the asking.

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Importers and Breeders of

Percheron and German Coach Stallions and Mares

Do You Want to Buy a Stallion for Cash? Go to the Holland Stock Farm.

CHAS. HOLLAND, Prop. SPRINGFIELD, MO

Plow Troubles Trapped!

This Marvelous Plow Does Everything Any Plow Will Do

Never before has it been possible to get one plow that would answer every purpose.

Implement makers everywhere have been trying for forty years, and failed. But we have succeeded! We have a plow that will turn over tame sod without kinking—turn under cornstalks or any kind of stubble without leaving a bit of trash—and do all this just as perfectly whether turning a furrow 2 inches deep or 8 inches deep.

Furthermore, it will do all these wonders in all soils—sand, clay, waxy bottom, gumbo, stony or gravelly—and always leave a perfect furrow with the bottom clean as a whistle.

ROCK ISLAND Universal (C.T.X.) Bottoms

Now on Our Gang and Sulky Plows

Our Liberty Gang Plow needs no lengthy description. All who have used it say it's the Best Gang Plow Ever Made. And now that it has the new Universal (C. T. X.) Bottom it is bound to be practically the only gang plow in demand during the years to come. We have also equipped our Liberty Jr. Sulky Plow with Rock Island Universal (C. T. X.) Bottoms. The plow itself needs no introduction, as it is already the recognized leader of the Sulky Class.

PERFORMANCE GUARANTEED—We fully and unqualifiedly guarantee the performance of the Universal (C. T. X.) Plow Bottom to be exactly as stated. We will take back any plow which does not make good our claims in the field.

FREE! Write for our new booklet. It's crammed with money-making hints on advanced farming methods. Explains in detail how many farmers have more than doubled their crops. And tells everything we haven't room here to tell about Rock Island (C. T. X.) Plow Bottoms.

Orders are coming in faster and faster every day for our new plows. Write immediately for free booklet and name of dealer near you who handles our new plows, so that you can see them before they're all sold out.

Note the peculiar cork-crow, anger-like twist of the mouldboard. A slice of any thickness spreads out evenly over the surface without crimping and turns clear over, burying all trash completely. No spilling over into the furrow or sloping forward onto the land. Lightest draft and easiest on the horses of any plow made. We control the shape of these mouldboards, and they cannot be had on any other make of plow.



Patent applied for.

ROCK ISLAND IMPLEMENT COMPANY
Kansas City, Mo.

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Attachment with Corn Harvester cuts and throws in piles on harvester or windrows. Man and horse cuts and shocks equal with a Corn Binder. Sold in every state. Price \$20 with Binder Attachment. S. C. MONTGOMERY, of Texline, Tex., writes:—"The harvester has proven all you claim for it. With the assistance of one man cut and bound over 100 acres of Corn, Kafir Corn and Maize last year." Testimonials and catalog free, showing picture of harvester.
NEW PROCESS MFG. CO., SALINA, KAN.

WIND MILL INSURANCE

WHAT'S the use of wasting good money on a windmill outfit for the wind

to down when you can just as easily, and for about the same price buy an outfit which its manufacturers, for a nominal fee, will insure for five years against tornadoes, cyclones, run-away teams—in fact against anything and everything except willful act or willful neglect.

The Goodhue Windmill

is the only windmill made that is so insured, because the Goodhue is a windmill that is built right. A postal card will bring you the proof and a free book in which you will find more practical information about windmills than can be obtained from any other source. **WRITE TODAY.**

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EVERY HAY GROWER Should Get This Great Free Book!

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Save 20 Per Cent of Baling Cost. by using an Auto-Fedan Hay Press. We will prove this saving over any other press, right on your own ground, or take back the machine, paying freight both ways. Only two men required to run it. Three stroke, self-feed, easy draft. Send today for free book No. 64.

THE AUTO-FEDAN HAY PRESS CO.,
1864 W. Twelfth St., Kansas City, Mo.

Can Moon Blindness Be Cured?

Read what the World's greatest veterinary surgeon says about it in our free book. Also treats on all symptoms and indications of eye troubles, and tells how to cure same. Send for the book today. It's free.

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The world-wide remedy. Once used, always cured. Cures Spavin, Splint, Lungbone, Curb, Swellings, Lameness.
\$1 a Bottle; 6 for \$5
All druggists. Get free book, "Treatise on the Horse."
DR. B. J. KENDALL CO.
Enosburg Falls, Vermont

THE FARM



Summer Fallow.

In speaking of summer fallow or summer tillage of land in the regions of relatively light annual rainfall, Prof. W. M. Jardine, the newly elected head of the agronomy department of the Kansas Agricultural College, says:

"Summer fallow or summer tillage consists in plowing the land thoroughly to a good depth, seven inches or even deeper, either in the fall or in the spring, as weather conditions, soil moisture conditions and the disposition of the farmer's time will permit, and leaving it lie over during the summer in a cultivated condition and free from vegetation of any kind until planting time. The deep plowing facilities the storing of summer rains and the surface cultivation checks its evaporation from the soil until it can be utilized by the growing crop. Weeds, volunteer grain or any form of vegetation must not be allowed to grow on the fallow, because they drink from the land as much moisture as a crop of wheat.

"Farming in the extreme western counties of Kansas is very exacting, if profitable crops are produced. The country is all right if the natural advantages are intelligently utilized. In a very large measure the farmer can control these by proper methods of farming, and the summer fallow belongs in this category because it is the best known way of utilizing the scanty supply of precipitation.

"There is one possible way in which farmers operating under a low annual precipitation can produce profitable crops of wheat every other year without the use of the fallow, and that is by the substitution of inter-tilled crops for the fallow. By the growing of such crops as corn, sorghum, potatoes, Canada peas, Mexican beans, etc., the land can often be made to produce profitable tilled crops and at the same time put the soil in fair condition for wheat. The main drawback to such a system at this time lies in the fact that most of the inter-tilled crops now available are not very drought resistant and are late maturing—too late for the short growing season common to the semi-arid lands. Usually, too, such crops cannot be removed from the land in time to plant winter wheat at the proper time. In order to insure profit by utilization of inter-tilled crops in rotation with wheat it will be necessary to discover or develop more hardy, drought-resistant, early-maturing varieties. Special efforts are being directed along these lines by practically every scientific investigator dealing with plants and operating within the semi-arid districts of the west. Until such discoveries are made and their practicability demonstrated farmers would do well in western Kansas to summer fallow or summer till their land at least once in three years. There would be absolutely no doubt, if such a system were practiced, that more farmers would be producing larger quantities of grain from one-half their land each year than they are now producing from their whole farm.

"The writer would recommend, therefore, that the farmers of western Kansas, that is, those operating west of the eastern line of the counties of Norton, Graham, Hodgeman, and Clark, handle a small tract of their land for a number of years in accordance with the summer fallow or summer tilled system, and in doing so adhere strictly to what is considered and known to be an ideal summer fallow; in other words, plow their land at the proper time and to the proper depth and keep it cultivated and free from weeds until they are ready to plant it to winter wheat."

Road Thinks.

To the Editor:—The amount of good work that can be accomplished by a split log drag is astonishing and must be seen before believed. If a community can't have a "good" road it should have the best road possible. Anything is better than a "bad" road.

The beneficent effects of good roads flow to the city and the hamlet as well as to the farmer. They walk hand in hand in community of interest, and surely it is a picture beautiful to look upon and sound at the core.

Good roads are indispensable to our growth and progress, and we must not falter or wait to provide for them.

A writer suggests that if Uncle Sam would expend the price of one battleship each year in placing immigrants on the farm it would go a long way towards solving the problems of a scarcity of farm help and the high cost of living. Maybe so! But did he stop to think that our immigrants are rarely given an opportunity to see any part of this country that is not included in the lower east side of New York and other cities while our school systems have taught commercialism, which leads towards the city, ever since they were founded? We do all we can to keep immigrants in the cities and to lure your farm bred boys and girls there as well. What is needed is a strong working grange in every farm neighborhood so as to interest the younger people, showing them the beauty and independence of farm life.—O. Wilson.

Reads Kansas Farmer for Thirty Years.

Prominent among the breeders of pure bred live stock in southern Kansas and known wherever Red Polled cattle and good Poland China swine are appreciated, is the long established firm of Chas. Foster & Son of Eldorado, Kan. Mr. C. E. Foster, who now conducts the business, has inherited a natural capacity and a thorough knowledge of how to handle it. Among his most valued legacies, however, is a complete set of the bound volumes of the KANSAS FARMER for thirty years. Mr. Chas. Foster began preserving each copy of the



KANSAS FARMER early in 1880 and, since his death, his son has continued the practice. The elder Foster was not only a careful reader of its columns but a consistent advertiser therein and he always obtained good results. In this he has been followed by his son for the same reason. We take pleasure in presenting a portrait of C. E. Foster, who continues the business of the firm under the old name and at the old place. No breed of cattle has made such astonishing progress in popularity as has the Red Polled and the pioneer firm of Chas. Foster & Son has remained in the business because of their success, which was due entirely to the quality of the animals they breed and their judicious methods in advertising.

The United States Sanitary Association which is a voluntary, unofficial organization of Federal and State officials and others interested in the control and eradication of disease among domestic animals, will hold its 14th annual meeting in Chicago, December 5, 6, 7. This meeting will immediately follow the International Live Stock Exposition.

LIVE STOCK



Profitable Pork Production Under Prevailing Conditions.

PROF. H. H. KILLDEE, DEFORM IOWA SWINE BREEDERS.

The profitable production of pork may readily be divided into three phases or stages, which are, the selection of breeding stock, care and management, and proper feeding.

We all realize that there may be as much difference between individuals of a given breed as there is between representatives of different breeds. So while our favorite breeds have their leading characteristics we know that they have their unprofitable, as well as profitable representatives. Hence in the selection of the foundation stock for our herds we must see to it that we select the most profitable type from our favorite breed.

The successful hog raiser is the man who pays strict attention to the health and comfort of his "money makers," especially while they are young. It is very essential that they be kept in roomy, sanitary quarters and free from both internal and external parasites.

While it is absolutely essential to the most profitable returns that the foundation stock be carefully selected and the pigs be kept in perfect health, yet the method of feeding is a potent factor in determining the profit. The problem of how much expense, time and labor can be profitably expended in preparing feed for swine is one of importance and one which is rapidly being settled.

Experiment station workers are practically unanimous in concluding that cooking not only does not increase the profit, but that it is often a detriment, as the heat renders some of the nutrients less digestible. It was formerly thought by many that it was a paying proposition to grind corn for all classes of swine. This idea has been exploded and the Iowa Experiment Station in a series of experiments with a large number of animals found that for spring pigs during their first summer and fall there was a saving of over 6 per cent of the corn feeding in the ear instead of shelling and soaking it and a saving of 18 to 24 per cent by feeding in the ear instead of shelling and grinding it. With the older animals there was a small saving of corn by shelling and soaking it twelve hours. In all cases where there was a saving by grinding there was a greater saving by simply soaking the shelled corn twelve hours in water. Extreme early maturity can best be secured by shelling and soaking the corn. A combination of rapid and economical gains can best be secured by feeding dry ear corn until the hogs are close to 200 pounds in weight. For hogs above 200 pounds, soaked shelled corn while a trifle slower than soaked corn meal, made the most economical gains. In reporting these experiments in Bulletin 106 of the Iowa Station, Professor Robbins states that to have ground the corn necessary for our 7,907,000 hogs would have cost at least \$3,000,000 per year. As the average weight for all hogs sold on the Chicago market for the past five years is but 222 pounds, the bulk of our hogs go to market ere they pass the size at which feeding dry ear corn gives the best results.

To make the greatest profit out of swine it is necessary to produce gains cheaply. This can best be accomplished by furnishing plenty of forage. We are just beginning to appreciate the value of the various forage crops. At the Iowa Experiment Station we have found that clover is much superior to timothy and blue grass and in our work made a trifle better showing than did alfalfa.

By comparing results from a check lot of pigs fed corn and meat meal in a dry lot it was found that an acre of clover produced about 750 pounds of pork, the feed and pasture per 100 pounds gain costing but \$3.50 from the time pigs were weaned until they weighed about 225 pounds. There are many crops which may be sown in

the spring and make excellent pastures. Some of these are rape; oats, rape and Canada field peas; oats, rape and vetch; and oats, rape and clover. An acre of the last named combination produced 830 pounds of pork exclusive of the pork produced by feed given.

In addition to supplying an abundance of green feed during the summer it is a paying proposition to grow soy beans, cow-peas, Canada field peas, vetch or rape with corn in a field near the building to run the pigs on during the fall. Excepting the rape these crops can best be put in with a drill immediately after the corn is checked and thus they will be nearly ripe when the corn is ready to turn into. Gains made by pigs on corn with soy beans or cow-peas have been found to be not only much more economical, but a trifle more rapid than those made by pigs in a dry lot fed all the corn and meat meal they could eat. An acre of corn and soy beans produced 619 pounds of pork at a cost of \$2.38 per 100 pounds, while gains made by similar hogs in a dry lot fed corn and tankage cost \$3.74 per 100 pounds.

Iowa farmers are beginning to realize the importance of dairying and that the two classes of stock which make an especially profitable combination are dairy cattle and swine. Skim-milk and buttermilk make valuable supplements to use in conjunction with our corn ration and where pigs run on good forage and receive one of these in conjunction with corn the economical production of pork is assured.

While absolutely essential to economical production in dry lot feeding, it is not necessary to feed a very large amount of the various sources of protein to pigs on forage crops which receive skim-milk or buttermilk.

While there are many nitrogenous feed stuffs on the market, the bulk of experimental data, as well as practical experience is very favorable to the packing house by-products as a profitable source of protein to balance the corn ration, either in dry lot feeding or where the pasture does not furnish sufficient protein.

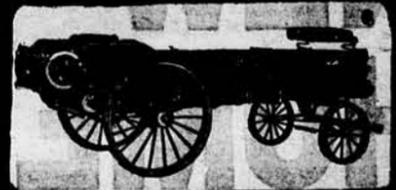
Experiment station work shows that a bushel of corn, when properly fed, will produce twelve to fourteen pounds of pork, hence when hogs are six cents a pound we are getting about eighty cents per bushel for our corn. I am firmly convinced that no farm yields the largest possible returns which does not have a lot of well-managed, properly-fed swine.

The United States army has adopted Kansas prairie hay as its standard of excellence for horses and a recent shipment of a train load was sent from one town to the Philippines. It is said that this newly developed market will have its influence upon the price of Kansas hay from now on.

Has anybody ever discovered a better hay for horses than the native Kansas bluestem? Kentucky has long been famous for her horses and her success in breeding them was attributed largely to her blue grass and her limestone water. Kansas has both of these and the bluestem besides and even Kentucky produces no better horses than are bred and developed on the broad Kansas prairies.

In our travels about the state we have occasionally found a liveryman who fed his horses on alfalfa hay exclusively. Lately we learned of one who was filling his now with new alfalfa hay but then his horses were mostly "broncs." A broncho will eat almost anything and endure almost anything but even he is entitled to some consideration, especially if his bad luck has made his home in a livery stable. During the recent hot spell the driving horse who was compelled to depend upon new alfalfa hay for his roughage must have suffered a good deal.

See What Is Under The Paint When you Buy A Manure Spreader



CHOOSING a spreader that will prove a big paying investment for years to come is a serious problem. You can't judge by appearance, for all spreaders look very much alike.

The way to be sure is to get right into the details of construction. See how and of what they are made. The handsome finish of—

I H C Spreaders

Kemp 20th Century Corn King Cloverleaf

is a true index to the quality in every part—not a cloak to cover up defects in workmanship and material. See them and judge for yourself if there are any others which have—

- such a noticeable absence of troublesome, unimportant gear wheels
- so few levers
- such a perfect apron
- such wonderful range of feed under absolute and instantaneous control of the driver
- such remarkably light draft, due to roller-bearings
- such perfect distribution
- such strength in every part.

I H C spreader frames are made of hard, heavy, non-porous, resinous wood—air dried, so that the sap is retained and the wood fiber cemented together. This prevents the manure liquids from penetrating the wood—makes it impervious to manure acids.

Cloverleaf spreaders have endless aprons. Kemp 20th Century and Corn King spreaders are of the return apron type. All are made in several sizes ranging in capacity from 30 to 70 bushels. All can be furnished with lime hoods to spread commercial fertilizer and drilling attachments to distribute manure in rows.

Ask the I H C local dealer to show you the style and size that will just meet your needs. Investigate its construction carefully. Compare it with any other make if you wish—then decide. If you prefer to write direct for catalogue and full information—mail a postal today to

INTERNATIONAL HARVESTER COMPANY OF AMERICA
(Incorporated)

Chicago

USA



THE I-H-C LINE



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Buggies the Best Sellers and the Best Value in the World for the Money

If you need a Buggy or Set of Harness you should have our Catalogue. Write for it today. Address Dept. C.

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Sanitary Hog Fountain



It saves time, work, money. It prevents disease, keeps animals clean, adds to profit. It is built of heavy weight galvanized sheets. It is carefully manufactured, correctly designed and will give unflinching service for many years. It is solidly fastened to a heavy iron sled which is strongly braced and built to withstand the most severe use. The Sanitary Fountain does not cost money, it saves it; saves it in decreasing your work and worry in increasing the growth and flesh of your hogs by making it easy for them to get the right kind of water at the right time. It is absolutely guaranteed. A valveless, floatless, trouble-proof stock watering fountain that you can absolutely depend upon under all conditions to provide your hogs with plenty of clean water when they want it and where they want it.

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THE American Boy Pumping Outfit

Fits any standard pump—Works in any well. Clamps to any ordinary pump standard by one clamp and four bolts.
1 1-2 H. P. ENGINE AND PUMP COMPLETE \$45.35
Ready in a minute. Pumps all the water needed for house and barn. Pump jack simply constructed. One gear, covered with shield. Vertical stroke—no side wear. The American Boy Engine is the simplest, and best engine made for farm use.
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Write for catalog today.
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Warranted for All Time

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The NEW HOME is the cheapest to buy, because of its superior wearing qualities. All parts are interchangeable, can be renewed at any time. Ball bearings of superior quality. Before you purchase write us for information and Catalog No. 10 THE NEW HOME SEWING MACHINE CO., Orange, Mass.

HOME CIRCLE



Rub the inside of a pan or kettle, which is to be used for boiling milk, with butter and the contents will not boil over.

To reduce the temperature of an oven place a small basin of cold water in it. Then the door may be shut without danger of burning the bread or cake or whatever you are baking.

Silver and gold jewelry can be cleaned by using the following solution: One teaspoon of ammonia added to a teacup of water. Apply with a soft cloth.

To keep the skin from becoming discolored after a bruise, take a little dry starch and moisten it with sufficient cold water to make a thick paste, and place it immediately on the injured part.

Charcoal is said to absorb foul gases and is recommended for use in the milk-room. It should be freshly powdered and kept there continually, especially in hot weather when unwholesome odors are much more prevalent and more liable to infect the milk.

Grass Stains.

During the summer grass stains are a source of much annoyance. A good way to remove them from white linen is to saturate the spots in kerosene, rolling the garments up for a few moments and then washing the spots in hot water and soap. Have the water as hot as the hands can stand it.

To Mend Table Linen.

A large hole in table linen can be mended much more quickly and easily on the sewing machine than by hand. First baste carefully a piece of rather stiff paper under the place to be mended and then, using rather fine tread, stitch through it in straight rows, stitching far enough beyond the hole to make it strong and having the rows close together. After the hole is filled in with rows across one way turn and stitch crosswise in the same manner. The stitching will have the effect of very fine darning. After this is done the paper may be torn away and what cannot be readily pulled off will soak out in the laundering. A hole mended in this way will be more satisfactory than the old, tedious way and after being laundered unless looked for will scarcely be noticeable.

During the warm summer days when the "old swimming hole" is attractive to so many a few words as to what to do in case of an accident may not be inappropriate. Oftentimes tragedies have been averted by some one knowing just what to do. In the first place don't think that a person taken from the water is dead until all means of restoration have been tried the limit. If a patient's face is swollen and purple, or if it is pale and flabby it is not conclusive evidence that they are dead. And treatment should be given immediately. The first thing is to make the patient breathe and when this has been accomplished to re-establish the circulation of the blood and restore warmth to the body. Open the clothing about the neck and expose the chest and shoulders to the wind. Turn the patient on his face; clasp your hands together beneath the stomach and lift as high as possible, letting the head hang so that the water can run out. Hold the patient in this position for a few seconds and then turn him on his back. Wipe out the mouth and the back of the throat with your finger covered with a handkerchief.

If this does not start the breathing apply smelling salts to the nostrils or tickle the nose with a straw or feather and dash water on the chest, alternating hot and cold. These things must be done quickly and if they do not prove successful artificial respiration must then be

tried. The best method known is Sylvester's method. The point is, make the chest expand, causing the air to be drawn into the lungs just as a pair of bellows will fill with air when open. Then cause the chest to contract and the air is forced out again. By alternating these two movements, we have inspiration and expiration and the two together constitute breathing or respiration. Place the patient on his back with the shoulders resting on a roll of clothing and the tip of the tongue drawn forward out of the mouth, otherwise it will fall back in the throat and hinder the breathing. This is very important and can be done by grasping the tongue with a dry handkerchief or the fingers may be covered with sand to keep them from slipping. If alone one would have to draw the tongue out and bind it against the lower teeth. After adjusting the tongue, kneel behind the patient's head, grasp him by the forearms, and draw up his arms over his head quickly but steadily until his hands touch the ground behind his head. Hold there there a couple of seconds and then reverse the first movement by carrying the arms back again until they rest against the sides of the chest, the forearms being thrust firmly downward and inward against the chest for a second. Continue this regularly at the rate of sixteen times per minute until the patient makes some effort to breathe and then you should try to time these movements by his efforts. At such a time ammonia may be applied as well as dashes of cold water and slapping. Even though there is no sign of life this artificial respiration should be continued for at least an hour and a half. When this is properly done, the air can be heard entering and leaving the chest. While attempting to restore breathing, the body should be kept warm. This may be done by friction of all kinds as well as by hot water bottles and hot drinks. As soon as the patient can swallow give hot drinks, and if difficulty of breathing persists apply a hot mustard plaster to the chest.

8750—Little Girl's Empire Dress.

This ever popular style may be developed in gingham, chambray, or percale for "every day" or general wear, or may be of silk, mull, lawn, batiste, or nainsook for more dressy occasions. A charming development in lawn, with insertions of embroidery and lace edging on the sleeves is

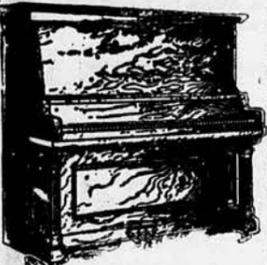


here shown. The pattern is cut in 4 sizes: 1, 2, 4, and 6 years. It requires 2 1/2 yards of 36 inch material for the 4 year size. A pattern of this illustration mailed to any address on receipt of 10 cents in silver or stamps.

MAPLEINE

A flavoring used the same as lemon or vanilla. By dissolving granulated sugar in water and adding Mapleine, a delicious syrup is made and a syrup better than maple. Mapleine is sold by grocers. If not send 35c for 2 oz. bottle and recipe book. Crescent Mfg. Co., Seattle, Wash.

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It has ever been our aim to sell good trustworthy Pianos at so much lower prices than other dealers can, that people will talk about us and advertise us. We couldn't do this if we paid commissions and we could not have grown the way we have grown if we had resorted to the sliding price tricks of many stores. We welcome an X-ray investigation of our Pianos and our selling system. The best proof of the honesty of both is the fact that no other Piano store in the entire country has made the record that Jenkins has.

\$225 Buy the ELBURN H-2—the Best Piano in the world at the price. We monthly pays for it.

USED PIANOS—SCORES OF BARGAINS—many of them as good as new. All of them priced at 1-3 to 1-2 their original value. We are also factory distributors for STEINWAY, VOSE, WEBER, KURTZ-MANN, ETC.

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DAIRY



Our Growing Dairy Industry.

With a total of nearly 22,000,000 milk cows in the United States whose annual product is worth 25 per cent more than their value, the dairy industry is surely looking up in this country. And why should it not? Dairying is one of the most profitable phases of agriculture and it can never be overdone.

Dairying has made wonderful progress since the advent of the modern creamery and the consumer has not only been benefited by having a better, more uniform and more wholesome product but the producer has profited as well. The farm wife has been relieved of the drudgery incident to the care of milk and cream and the manufacture of butter. In the multitude of her other cares this was a serious burden from which she is now relieved by the fact that every railroad station furnishes a market for the cream at better prices than was realized under the old method while the farmer has the milk, warm, sweet and fresh for his pigs and calves. With this change in method and the consequent improvement in quality has come a larger consumption and a greater demand for good dairy products. Men will eat that which they like and the product of the modern creamery has quality, flavor and uniformity which could never have been secured in country butter made under such varying conditions and by so many different hands.

The perpetuity of the greatness of our country rests with the farmers to a much larger degree than with any other class and the question of profitable returns spells the solution of the problem of the perpetuity of the farming class. No nation ever made history which did not possess thriving and progressive farmers and these are possible only through profitable methods.

Among the means to such an end the dairy cow ranks first as she not only manufactures the most concentrated and valuable of farm products from cheap raw materials but she stands as the very foundation of soil improvements, and that system of farming which fosters soil improvement first is that which insures farm prosperity which is national prosperity.

The Genuine and the Counterfeit.

The contests between the producers of butter, who are demanding only honest competition between their product and oleomargarine, and the manufacturers of oleomargarine, who are striving for the elimination of protective legislation, is not based upon equality in the two products as the oleomargarine people would have the public believe. At the recent hearings in Washington every oleomargarine witness laid particular emphasis upon the claim that oleomargarine is just as "pure, wholesome and nutritious" as butter. Some of them claimed even more than this, arguing that it is produced under more sanitary conditions.

No sane person can be misled by such claims, providing he gives thought to the question. It is the same old story of the producer of the substitute claiming the superiority of his article over the genuine.

For several years the writer was compelled to listen for hours at a time to the claims of manufacturers of artificial food products that in using their particular articles the consumer was not only getting better quality but was also saving money. They were always protesting against regulations which were intended to prevent fraud in the sale of those products. They termed such regulations "outrageous and undemocratic," and accused the legislative body of the state of discriminating against "pure, wholesome and nutritious" food products.

In spite of all such protests, our state law-making bodies and our federal law-making body have continued

to strengthen such regulations and to make the line of demarcation between the genuine and the imitation as complete as possible.

We should not lose sight of the fact that butter and oleomargarine have never been, are not and never can be equally "pure, wholesome and nutritious." They are not identical in any particular, except as the manufacturer of oleomargarine in producing his article imitates butter, and this fact alone proves that they are not similar. Leave out those ingredients natural to butter and oleomargarine would neither taste, smell nor look like butter.

Congressman J. M. Nelson, of Wisconsin, clearly emphasized the foolishness of the claim of the oleomargarine people when he said:

"It is well to remember that Congress cannot repeal or set aside the fundamental facts of nature, or of human nature. Can Congress by law make an artificially painted flower equal to nature's blushing rose? Can Congress by law make water flow up hill? Can Congress by law turn hungry wolves loose in sheep folds and reasonably expect that they will not destroy the sheep? Can Congress by law make beasts of prey ply their natural instincts in daylight rather than darkness? If Congress can do these unreasonable things, if it can defy natural law and common sense, doubtless then it has also the power to make good by law the assertion that oleomargarine, a heterogeneous compound mechanically mixed in a machine, the child of greed sold for gain, is the peer of butter as a food, the product of nature prepared in the living organism of the cow—man's best friend from the beginning of his earthly pilgrimage as a race, the prototype of the kindest gift of God to man—our mother."—E. K. Slater, St. Paul.

A New World Record.

It remained for the Missouri College of Agriculture at Columbia, Mo., to raise and develop the champion dairy cow of all the world. Missouri Cheif Josephine, a Holstein-Friesian cow, finished her six months' test on July 18, producing 17,008.3 pounds, an average of 93.4 pounds of milk daily for 182 days. This is equivalent to 46.7 quarts, or 11.6 gallons every day. Her highest record for one day was 110.2 pounds. This record is the more remarkable because no special preparation had been made for this test and Josephine has done her full duty in the regular dairy herd of the University, having had five calves in five and one-half years.

Not only has this record smashed all previous world's records for milk production, but the per cent of butter fat is increasing daily, so that, barring accidents this cow will undoubtedly produce more butter during a period of twelve months than any other cow that has ever been tested in the world.

This cow is but one of a number of remarkable cows owned by the University of Missouri and maintained solely for the instruction of its students in agriculture and for investigational purposes. Only twenty Jerseys cows in the history of the world have produced more than 700 pounds of butter in one year. Five of these cows, or 25 per cent of the total number are owned and were bred by this Missouri institution. The college owns more than 300 pure bred and registered animals, belonging to 17 distinct breeds.

Josephine's record exceeds the present world's record for six months by 1,458 pounds.

The making of corn into ensilage does not increase its value as a feed but it does increase its palatability. Moreover, it saves the entire corn plant and renders it available for feed whereas the common practice of husking the ears only wastes about 40 per cent of its value for feeding purposes.

Does the Cows a Heap of Good

Cow comfort and cow sanitation result in more cow profits, and that alone should induce any farmer or dairyman to seek these conditions. Louden Sanitary Steel Stalls and Stanchions double the light and air in a barn and insure perfect ventilation, perfect sanitation—a result impossible with any wooden equipment. Yet

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are actually cheaper. Louden stalls of heavy tubular steel, with malleable fittings, have no flat surfaces for dust to accumulate—easy to keep clean and almost indestructible. Louden stanchions give cows more comfort than other makes, yet keep them perfectly lined up. Throat chains prevent cows from lying down when milking. Simple and very durable. Latch easily opened or closed with gloved hand, but can't be opened by animal. Send today for free catalogue of sanitary, money-saving barn equipment.

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WEALTH IN IRRIGATION

Congress Has Just Appropriated Twenty Million Dollars to Hasten the Work of Government Irrigation.

The biggest opportunities for farmers are being offered today in the new irrigated lands of the West. The untilled, virgin soil is rapidly becoming the finest farming country in the world through the irrigation work of the government.

Land with a perpetual water right can be secured now at prices that are a fraction of what it will be worth in only a few years. For the man who is renting a farm, for the city man who wants to have a farm of his own, this new irrigated land is the chance of a lifetime. Not only are the prices of this new land exceptionally low, but the terms are so very easy that you can readily make your annual payments on the land out of the profits from your crops for each year.

Great Government Project in the BIG HORN BASIN

The Government Shoshone Project in the Big Horn Basin will receive its share of the Twenty Million Dollar Appropriation, and the result will be the opening of thousands of acres of the finest kind of land with immense crop possibilities. This is one of the latest and best of the new irrigated territories. Read below the brief description of some of these lands, then send for full information about these farms and how to visit them.

Contracts for a twelve-mile extension of the main canal of the Shoshone Project were let June 27th. More than 150 farms are now ready for settlers, and a large number of farms are now being surveyed, which will be opened to entry within a few weeks. These rich lands irrigated by the government, including a perpetual water right, can be homesteaded by simply repaying the government actual cost of the irrigation work—\$45 per acre, in ten yearly payments, without interest.

15,000 Acres of Cury Act Lands just opened to entry—only thirty days' residence required. Under this law the settler buys the land from the state at 50c per acre and a perpetual water right from the Irrigation Company at \$50 per acre, paying \$10 per acre cash, the remainder running over a period of ten years at six per cent.

Come with me this summer on the first or third Tuesday of any month and let me show you the prosperity and growing crops of the Big Horn Basin, a country depending largely on irrigation.

Railroads and Towns. These lands are all near the Burlington's new lines in Wyoming, and close to the new growing towns. Perfect facilities for forwarding all products to the best-paying markets.

Send a letter or postal or put your name and address on the coupon and mail at once. We will send you complete information about all these new lands—mailed free. This land will be taken up rapidly. Send now.

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Gove.....	P. W. Harvey & Son.....	Quinter.....	Kharkof.....	2,000
Harper.....	George Covey.....	Ferguson.....	Kharkof.....	500
Harper.....	T. B. Marsh.....	Anthony.....	Kharkof.....	600
Kiowa.....	J. A. Lovette.....	Mullinville.....	Kharkof.....	1,200
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For 18 years I have bred White Rocks, the best of all purpose fowls, and have some fine specimens of the breed. I sell eggs at a reasonable price, \$2.00 per 15, or \$5.00 per 45, and I prepay expressage to any point in the United States.

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of S. C. White Leghorns, prize winners at three state shows. Eggs, \$1.50 for 15; \$6 per 100. Barred Rocks, "Ringlet" strain, \$2 for 15 eggs. Eggs packed with care.

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One of the best poultry ranches in the state. Two acres adjoining Washburn college Campus, 9 room house, cellar, cistern, well water, barns. Best poultry house in county. Fruit and ornamental trees. Price \$4,000, half on time if desired. No trades. Address

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Our "Cyclone" three stroke self feed hay press is the latest, most powerful and most efficient press on the market. Each circle of the team presses in three charges. The self feed automatically puts the hay down to the bottom of the bale chamber. These two improvements wonderfully increase capacity of our presses. Write today for circular and prices. Five days' free trial.

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A three-mule team turning under Johnson grass 5 ft. high and ploughing 13 inches deep in hard, black bottom land, near Ft. Worth, Texas.

Messrs. Wray Brothers, owners of this land, say:

"The tilling-machine easily penetrated and maintained a depth of 9 to 13 inches and we had no difficulty to put it deeper. We uncovered with the front disk and turned up with the rear an entirely new field.

"The disks pulverized the soil beyond anything possible with a turning-plow, and covered thoroughly grass and weeds that stood from two to five feet high, leaving the surface almost as level as a floor.

"The Johnson grass at many places stood as high almost as the lead mule's back, and she stands 17 1/2 hands high. Not a vestige of it was seen after the machine passed over it."

Mr. W. E. Leavitt, Superintendent of the Golden Hill Fruit Ranch, at Loma, Colo., says:

"A few weeks ago you shipped us one of your machines and we have tried it out on the hardest and most difficult pieces of ground we could find. It is without doubt the most valuable implement we have on the ranch, and is especially adapted for work in our soils. The plow will have no rest from now until the ground freezes."

Write today for Catalogue "C," containing many handsome illustrations and full details.

The Spalding Tilling Machine Co.
Cleveland, Ohio.

POULTRY



If your chicks are ailing and you don't know the reason, look for lice.

Nine-tenths of the young chicks die from being infested with lice and mites. Grease on the head and under the wings is good.

During the very hot weather the chickens get dumpy and lose their appetite. A change of food during this period will help them. See that they have plenty of pure, fresh water.

Bran is an excellent food for hens and should be kept before them at all times. They are not apt to eat over much of it as they would corn or wheat if given unlimited supply.

During this hot weather see that your poultry are not neglected. It is so easy to put things off till the weather gets cooler that the chickens are apt to suffer for lack of attention.

Plenty of shade, plenty of cool fresh water, and plenty of grit should always be provided for the chickens and if you add plenty of charcoal you will tend to keep them in good health.

The great majority of diseases incident to poultry are due to bad management, bad housing, including cold, damp and ill-ventilated houses, over-feeding, rich feeding, impure water and want of exercise.

A flock of hens is capable of saving certain portions of crops that cannot be sold to advantage as immature, small potatoes, etc. There is always on a farm, a lot of valuable refuse which cannot be saved, except by the use of poultry. It is true that a pig is also serviceable in that respect, but the hens give more immediate returns, supplying eggs daily and bringing in cash when there are no returns from other sources. In keeping a flock of fowls, the object should be to feed nothing to them that can be sent to market, as long as there is something unsalable that will answer the purpose. Economy adds to the profit, and one of the chief purposes in keeping a flock is to utilize the waste products.

We hope a number of our poultry readers are contemplating sending some chickens to the State Fair at Topeka September 10 to 17. It is the

best place wherein to advertise your poultry that you can find, and as no entry fee on chickens is required there is no expense connected with it, other than buying an admission ticket for the week of the fair. The most liberal premiums on fowls are offered of any fair, viz., \$3.00 for 1st pen, \$2 for 2nd pen, and \$1 for 3rd pen, and \$5, 50 cents, and 25 cents are offered for 1st, 2nd, and 3rd prizes on single specimen. Everybody who has fancy poultry ought to bring them out and exhibit them during this great exposition. If you have not yet received a premium list you can get one by addressing the secretary of the fair, H. L. Cook, Topeka, Kan.

The fall fairs will soon be here and the exhibition of poultry will be in order. To get a fowl perfect in shape the growth must be steady and uninterrupted from the time it is hatched until it is matured. Any check in its growth caused by crowding, exposure, vermin or a one-sided ration will injure its shape as a fowl. Any check in the growth of its feathers will break the evenness of the barring. This is what makes it so difficult to produce parti-colored fowls with perfect feathers in all sections. Give abundant range and see that they have clean, comfortable coops for the night, with plenty of fresh air. While proper feeding insures grand results; foundation stock, breeding and selection are factors that must be reckoned with, to insure best results. By looking after the growth of the chicks continually, seeing that they have no set-back, you may have some prize-winners at the fairs this fall.

Complaints of fowls dying reach us from two or three sections, but not to any extent to cause wide-spread alarm. At this time of year with the thermometer ranging in the hundreds it must be expected that many fowls will die from the heat, especially where there is not sufficient shade for them to go to. A great number will die because lice will pester them to death. A number will die because pure water is not supplied to them in sufficient quantities. A great many fowls die in the summer because they eat tainted meat, procured from some animal that has died somewhere around the premises. Some of the diseases of poultry are so similar in symptoms as to render it very difficult, to those who have not given the observation of such their close attention, to determine the true character of a disease that may appear. As there are also individual peculiarities to consider in the matter, the treatment of a whole flock becomes difficult. It is for these reasons that poultrymen and farmers suffer severe loss when contagion occurs. The labor of handling two score or more fowls and that two or three times a day, in order to give any medicine or remedy, is not willingly bestowed, to say nothing of the disagreeable portion of the operation and the liability of the disease being communicated to human beings. But for the prolificacy of poultry, there would be an extinction of some kinds, especially of the breeds that lack hardiness; hence it seems as though nature provided for the contingency. It would be well, however, for every poultryman to learn as much as possible about diseases, and to endeavor to treat them therefore through the food and drinking water, in order to avoid handling them. It is much easier to prevent disease entering a flock than to eradicate it after it has once gained a foothold. As a rule we do not believe in doctoring sick fowls, unless they should happen to be very choice birds. By keeping the premises scrupulously clean, by seeing that the fowls are free from lice, by seeing that no putrid carcasses are laying around, by providing plenty of shade, pure water, grit, charcoal and other necessities of healthful fowls, we can keep all diseases away from our flocks.



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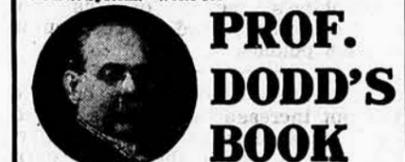
The mother and little children are always in the house when the storm comes. What protection have your loved ones?

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FARMERS WANTED—TO PREPARE for October 12th government farmer examination. High salary. Free living quarters, fuel, light, etc. Write, Ozment, Dept. 44-F, St. Louis.

160 ACRES, ALL TILLABLE, BLACK loam, good improvements, abundance water, good location. This farm will stand inspection. Price \$8500. One-half down, good terms for balance. Send for new free list. Holcomb Realty Co., Garnett, Kan.

FOR SALE—TWELVE ROOM HOUSE ON 160 ft. lot, two blocks from State Normal. Good home. Suitable for rooming or boarding house if desired. Bargain, part cash, balance at 6 per cent. A. S. Newman, Emporia, Kan.

MISSOULA, MONTANA: AN ACTIVE, wide-awake city of 20,250; ideal climate, pure water. Elevation and soil unexcelled for fruit, grains and vegetables. Montana leads the U. S. in production of wheat, oats, rye, hay and potatoes. Write for booklet K. Chamber of Commerce, Missoula, Montana.

FOR SALE—FINE RESIDENCE NEAR State Agricultural College. Brand new, strictly modern, 8 rooms, bath and hall. Quarter-sawn northern oak floor, doors and finish. Hot and cold soft water on both floors. Cistern, automatic pump in cellar, tank in att'c. Also city water. All material and fixtures the very best. Block car line. Price \$5,000. Terms, F. G. Kimball, Manhattan, Kan.

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64 REGISTERED SHORTHORN COWS, every cow has a certified pedigree; rich in the blood of Lord Mayor and Hanna's Imported Collena. Cheap for cash or on one year's time at 8 per cent, or will trade for unincumbered western Kansas land or city property in Wichita or Topeka. Address T. B. Stockstill, Liberal, Kan.

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PEDIGREE SCOTCH COLLIES FROM choicest stock; also bred Poland Chinas; farmers' prices. Catalog free. Lawndale Seed Farm, Hiawatha, Kansas.

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HONEY.

HONEY—TWO 60 POUND CANS, \$3.50; single cans, \$4.50. W. P. Morley, Las Animas, Colo.

NEW ALFALFA HONEY—TWO FIVE gallon cans, \$10; broken comb, \$11; fancy comb, \$3.25 per case, 24 sections. A. S. Parson, Rocky Ford, Colo.

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FOR SALE—KHARKOF SEED WHEAT, college bred, \$1.50 per bushel, sacked. J. A. Lovette, Mullinville, Kan.

WANTED—NEW CROP ENGLISH BLUE grass or Meadow Fescue, Timothy and other grass seeds. Correspond with The Barteldes Seed Co., Lawrence, Kan.

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160 ACRES, all tillable, 1/4 mile from Meade, Kansas. House 4 rooms, barn, two wells, one flowing; 110 a. in cult., 15 acres in alfalfa, balance pasture. Price \$5,000, \$2,000 cash, bal. 3 yrs. at 6 per cent.
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Fine farm. Price \$50 per acre, \$20 a. im-
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Splendid snap at \$25 per a. For further de-
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For every quarter section purchased from
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In the best fruit section of the Western
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Bearing orchards often pay \$600 an acre
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Valuable improvements. \$20 per acre.
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\$15 lands near Cheyenne, grows crops
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of the best boars in the United States. You
can get just what you are looking for from
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ALFALFA FARM, \$15 PER ACRE.
567 acres, 200 in cultivation 267 fine
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Fruit and poultry farm, 26 acres, well im-
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88 acres, 3/4 miles of R. R. station, 4
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60 acres bottom land in cult., 38 acres good
timber, 1/4 mile to school. Price \$2,500.
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FINE FRUIT FARM FOR SALE.
80 acres, 3 miles from Rogers, the queen
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peaches bearing, 3 timber, balance cult.
Good four room house, fine well, dandy out-
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**LANDS AND RANCHES
FOR SALE**
120 acres, one mile from town, all bet-
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A 160 ACRE FARM near a town like Thomas, Okla., is a sure thing. Write for particulars. Don't fail to see our land before buying elsewhere. GRANT INVESTMENT COMPANY, Thomas, Oklahoma.

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FOR SALE. A well improved bottom farm of 584 acres on Grand River, six miles of railroad town. This is one of the best farms in Oklahoma. No overflow. No trade. Price \$50 per acre. Write. J. T. RAGAN & CO., Vinita, Okla.

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EASTERN OKLAHOMA. 2 1/2 acres, 7 miles from Muskogee, 2 miles of railroad town, all good valley land, living creek water, 20 acres cultivated, balance meadow and fenced. In white settlement, on main road, close to church and school. Price \$30 per acre. Many other farms, improved and unimproved at \$25 to \$35 per acre. E. B. BEARD & COMPANY, Muskogee, Oklahoma.

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IF YOU WANT TO BUY a good farm in southwest Missouri or city property in Springfield, Mo., write A. B. Crawford, Springfield, Missouri.

IMPROVED FARMS. Central Missouri, \$10 to \$25 a., easy terms; mild, healthful climate farm fruit, grazing lands. Circulars free. G. R. Bakeman, Richland, Mo.

OZARK FARMS, some well improved, \$8 to \$30 per acre. Timber lands, \$5 to \$10. Write for price list. McDonald & Son, Richland, Missouri.

THREE HIGH CLASS improved Northwest Missouri farms for sale, corn, clover and blue grass land. Your Choice \$75 per acre. Write for particulars. Bazel J. Meek, Owner, P. O. Box 307, Chillicothe, Missouri.

FOR SALE—Central Missouri farms; send for list, 200 farms in Callaway Co., Mo., with full description and price for each; in Missouri's best grain and blue-grass county. Koontz & Palmer, Fulton, Missouri.

5,000 ACRES cheap farm land, tracts to suit; Green County; part improved, balance good timber; good soil and water; \$10 per acre upward; liberal terms; descriptive literature free. Ozark Land Co., 305 1/2 Boonville, Springfield, Missouri.

MISSOURI FARMS. For sale or exchange in Morgan county, where corn, clover and bluegrass grow to perfection. Prices from \$10 to \$55 per acre, on liberal terms. Write for county map and list, both free. CREWSON & HARRISON Versailles, Mo.

IN THE OZARKS. Dairy, truck, poultry and fruit lands, \$6 to \$50 accordingly, on terms to suit. I own over 10,000 acres and can give you what you want. Large illustrated folder, list and maps free. F. H. RUCKER, Rolla, Missouri.

40 ACRES \$700. 40 acres 5 miles N. W. of Poplar Bluff, 10 acres in cultivation, balance fair timber, 2-room log house, shed, spring, price \$700. We have the cheapest and best farm land in Missouri. GREATOT REAL ESTATE & INVESTMENT COMPANY, POPLAR BLUFF MO.

DID YOU GO TOO FAR? Do you want to have a clover, bluegrass and timothy farm again? If so, write us. We will sell well improved Johnson county farms for \$40 up. Write for our list, mailed free and postpaid. LEETON LAND COMPANY, Leeton, Missouri.

WEBSTER COUNTY, MO. farm lands, \$20 up. Prices advancing rapidly. Now is the time to buy. Our land list gives prices and descriptions. Free list with map if desired. R. S. Phillips & Co., Marshfield, Missouri.

MISSOURI. The home of corn, clover, bluegrass and fat stock. Lands in the heart of this great state for less than Central or Northeastern Kansas lands. Write for list, sent free upon request. BARTHOLOMEW & SLACK, Calhoun, Missouri.

880 ACRES FINE TIMBER LAND. Abundant living spring makes ideal ranch; if cleared would be good agricultural, farms adjoining all sides can not be bought for \$50 per acre; near county seat; price \$75 per acre; to incumbency; will take some trade. J. H. McQUARRY REALTY CO., 120 Commerce Bldg., Kansas City, Mo.

THE STRAY LIST

Scott County, S. W. Tilley, County Clerk. TAKEN UP—One yearling colt, chestnut sorrel, white stripe in face, right hind foot white, dark mane and light tail, was taken up on June 28 by Wm. Mallory, 4 miles northeast of Scott City.

FIELD NOTES.

C. W. Lamer, the big breeder of Percheron and Shire horses and Kentucky Jacks at Salina, Kan., is also an importer on a large scale. He writes under date of August 2 that he has just arrived in Salina on a special express train from New York with 60 head of imported Percheron and Belgian stallions and mares. Mr. Lamer is a good judge of draft horses, and makes his own selections over in the old country. He states that he thinks this importation is as good a lot as will come over the Atlantic in the year 1910.

Richly Bred Jersey Bull Calf. Elsewhere in this issue will be found the advertisement of Johnson & Nordstrom, Jersey cattle breeders of Clay Center, Kan. They are offering for sale the richly bred bull calf, Vic's Stockwell, sired by Beatrice Stockwell, one of the handsomest bulls of the breed, sold at Kinloch Farm sale held recently for \$2100. He is by the great bull imported Stockwell by Oxford Lad by Champion Flying Fox by Golden Ferns Lad. The dam of Vic's Stockwell is the beautiful young cow Silverine Vic's by the world's fair champion Silverine Lad. Vic's Stockwell is a most excellent individual, splendid color, tuberculin tested, and will be priced well worth the money.

Big-Boned Poland Chinas. We wish to call our readers' attention to the ad of Roy Johnston of South Mound, Kan., who is offering a few spring boars for sale sired by John Long and Orphan Chief. They are the best lot of pigs Mr. Johnston has ever raised, and some choice herd headers can be had from this bunch. Write for prices and descriptions. Kindly mention the Kansas Farmer.

Col. W. B. Carpenter, president of the Missouri Auction School at Trenton, announces that this school opened on August 1 with the largest attendance in its history and that many prospective students have written that they will enroll later. Those who come later will receive extra work and attention so that they may finish the course with their class.

R. and S. Farm Visited. At Smith Center, Kan., is located the herd of Durocs owned by Rinehart & Son and headed by the great boar, King of Kant Be Beat, who is proving himself to be a breeder far above the average. The spring crop of over 150 head are by this boar. Golden Ruler, Bonney K, and other well bred boars. A young boar has just been purchased for a future herd boar. He is sired by Fancy Col, and traces to King of Col's on both his sire's and dam's side as well as to Ohio Chief, Crimson Wonder and other great boars. While this fellow is yet young he is showing great quality and is a boar of much more than ordinary promise. Let this firm know your wants in the Duroc line.

AUCTIONEERS

G. E. BEAN, GARNETT, KANSAS.



Auctioneer

Live Stock, especially Horses, Cattle and Big Type Poland China and Chester White Swine. I am also breeder of the big type Poland Chinas. Write me before claiming a date.

H. R. LITTLE Live Stock Auctioneer Abilene, Kan.



A close student of men and methods with twenty years' experience as a breeder of Shorthorns. Entire time devoted to auction work. Reasonable charges for first class service. Write or phone.

JOHN D. SNYDER AUCTIONEER, Winfield, Kansas.

I sell for many of the most successful breeders.

LAFE BURGER LIVE STOCK AUCTIONEER. Write or wire me for date. WELLINGTON, KAN.

JAMES T. McCULLOCH, Clay Center, Kansas. makes public sales anywhere. Pure bred sales a specialty. Better equipped than ever before to give patrons good service. Reasonable charges for first class service.

L. E. FIFE LIVESTOCK AUCTIONEER, Newton, Kansas. Breeder of Percherons, Shorthorns and Duroc Jersey hogs; posted in pedigrees; terms reasonable. Write or wire for date.

W. C. CURPHEY LIVE STOCK AUCTIONEER. Write, phone or wire me for dates. ABILENE, KANSAS.

COL. JOHN BRENNAN. Live stock sales a specialty. Sales cried anywhere. Address at EMBON, KANSAS.

COL. FRANK REGAN of Embon, Kansas, will cry your next sale and give you satisfaction. Write for dates.

Jas. W. Sparks AUCTIONEER Pedigreed Live Stock, Marshall, Mo.

JERSEY CATTLE

JERSEYDALE STOCK FARM PHIL HANNUM, JR., OWNER. Imported and American bred Jerseys, stock of either sex or age for sale at all times. I also handle high class grade Jerseys on commission. I have for sale 12 head of pure bred Jersey heifers, not registered, fawn color, at a bargain. Must be sold at once. Write for what you want in dairy stock. Can fill most any order at reasonable prices. PHIL HANNUM, Jr., Carthage, Missouri.

JERSEY BULL FOR SALE

Vic's Stockwell 91762, sired by the \$2,100 Beatrice Stockwell, he by the \$11,500 Stockwell. The dam of Vic's Stockwell is Silverine's Vic by the \$1,500 World's Fair prize winner, Silverine Lad. Dropped Feb. 25, splendid form, and of excellent conformation. Tuberculin tested. Write for extended pedigree and price. JOHNSON & NORDSTROM, or Jesse Johnson, Clay Center, Kan.

I have ready for service a few grandsons of Merry Maiden's Third Son, Financial Count, Eurbyia's Son and Fontains' Eminent. Prices and extended pedigrees upon application. These bulls will make excellent dairy sires and are fit to head any herd registered in A. J. C. C. W. N. BANKS, Independence, Kansas.

POLLED DURHAM CATTLE

BELVEDERE X2712-195058 Son of the \$1,500 Grand Victor X1635 160364 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.

RED POLLED CATTLE

CHOICE RED POLLED CATTLE. Herd the oldest in Marshall county. The best in breeding and individuality. Stock for sale at all times. AULD BROS., Frankfort, Kansas.

RED POLLED CATTLE. A few choice young bulls for sale, also a few cows and heifers. C. E. FOSTER, Eldorado, Kansas.

PURE BRED SHEEP

LAMBS LAMBS 5000 March lambs ready to deliver in September. Average 65 pounds. Clean, healthy stuff. Priced right. Address. BOX 781, PHOENIX, ARIZONA.

SHEEP! SHEEP! SHEEP! SHEEP! 500 pure bred Ramboulett sheep, consisting of 250 3-year-old ewes, 216 yearling and 2-year-old ewes and 35 rams, also 225 lambs. These sheep are extra choice and will be sold in a bunch or in lots to suit purchaser. ESTATE OF J. W. TROUTMAN, J. G. Troutman, Manager, Comiskey, Kan.

HORSES AND MULES

SHETLAND PONIES FOR SALE—20 imported stallions and few bred mares. We have recently returned from Scotland with the finest importation of ponies ever brought to Nebraska. Write for private sale catalog. CLARKE BROS., Auburn, Neb.

PERCHERONS REGISTERED.

A choice lot of two-year-old fillies in matched teams; will breed them to any of my herd stallions, will sell 10 or 18 yearlings, all registered and of the best blood lines. Every animal sold sound. J. W. BARNHART, Butler, Missouri.

ANGUS CATTLE

80 Angus Bulls OF SERVICEABLE AGE. Herd Headers and Range Bulls. Many of them by Champion Itos. SUTTON FARMS, Lawrence, Kan. 500 HEAD IN HERD.

SHORTHORN CATTLE

10-SCOTCH BULLS-10 from 10 to 14 months' old. One roan, 9 reds, sired by show bulls and out of show cows. Must be sold to make room. Priced at \$75 to \$125. These are all good, I make steers cut of poor ones. Come at once. They will suit you. COL. ED. GREEN, Florence, Kansas.

REGISTERED SHORTHORNS. 55 head in herd, a few choice cows and heifers for sale. Pure Scotch breeding. Priced reasonable to reduce herd. JOHN W. TREADWAY, Kincaid, Kan.

SHORTHORNS

A few choice heifers for sale, nicely bred and good individuals, priced reasonable. Write or come and see my herd. C. H. WHITE, Burlington, Kansas. TENNEHOLM SHORTHORNS. Have on hand a few young red bulls ready for service that are out of splendid milking dams and have good beef form. No better breeding could be wished. Can spare a few females. Prices moderate. E. S. MYERS, Chanute, Kansas.

FOR SALE. Five extra good Scotch and Scotch topped bulls, 10 months' old. Roans and reds, sired by Victor Archer and Forest Knight by Gallant Knight. Priced right. STEWART & DOWNS, Hutchinson, Kansas.

Center Grove Stock Farm

Scotch Shorthorn cattle and 20 bred sows and a few good spring boars of large type Poland China hogs. Write me what you want. No trouble to answer letters. Bell' Phone. J. W. PEPHREY & SON, Route No. 6, Chanute, Kansas.

HUMBOLDT NATIONAL STOCK FARM.

Shorthorn cattle, large type Poland China hogs, 10 spring boars, priced right. Write me your wants. I meet parties at trains. We can do business. Come and see me. H. F. PEPHREY & SON, Humboldt, Kansas.

SHORTHORN BULL FOR SALE.

Sired by Lord Mar and out of a Red Knight cow. Also cows and heifers. 73 choice Poland China pigs to select from. S. B. AMCOATS, Clay Center, Kansas.

WANTED—LADY OR GENTLEMAN AS local representative in every Kansas county. Splendid chance to make good wages without great effort and no expense. Write for particulars. Address Circulation Department. Kansas Farmer, Topeka, Kansas.

HOLSTEIN CATTLE

HOLSTEIN CATTLE

POLAND CHINAS

POLAND CHINAS

ALBA DAIRY 125 HEAD REGISTERED HOLSTEIN-FRIESIANS

LARGEST HERD OF THIS BREED IN IOWA. Barns Sanitary—Herd Tuberculin Tested Twice Weekly. At the head of herd King Sogis Hengerveld Vale who is son of the famous King Sogis (sire of 3-record-breaking daughters), grandson of Hengerveld De Kol (sire of 100 A. R. O daughters, 4 above 20 lbs.), great-grandson of Saddle Vale Concordia the first 20-lb. cow. A. R. O. COWS FOR SALE. Young, sound, free from disease. Large official milk and butter records; rich breeding; splendid individuality. BULL CALVES FOR SALE from 1 to 6 months' old. J. C. GUTHRIE, SHENANDOAH, IOWA.

SUNFLOWER HERD HOLSTEIN-FRIESIANS

Those desiring a HIGH testing A. R. O. sire to head herd should get prices and descriptions on my KING WALKER service bulls. The three nearest dams on all these bulls average from 25 pounds to 29 pounds butter in 7 days. F. J. SEARLE, Okalocsa, Kansas.

ROCK BROOK HERD

offers bargains in a carload of cows and heifers and a few bulls 2 to 16 months old. All tuberculin tested. ROCK BROOK FARM, Station B, Omaha, Nebraska.

DUROC JERSEYS

DUROC JERSEYS

ALFALFA STOCK FARM DUROCS

Over 300 head of spring pigs now on the farm, the sires of which were sired by such boars as Ohio Chief, Billie K., Prince Wonder and from sows equally well bred. Fifty boars have been selected from a bunch of 200 and reserved for breeding purposes. Will quote you prices on single animals or in any sized lots to suit. Address PEARL H. PAGETT, Beloit, Kansas.

DUROC HERD BOAR FOR SALE

Skadden's Wonder 74645, the best living son of Nebraska Wonder. An excellent breeder and individual. Out of litter of 12. Just in his prime. Will price to sell. A. B. SKADDEN, Frankfort, Kansas.

FOR SALE!

Tried sows and bred gilts. Bred to Fancy Boy 86187, who is also for sale, a large bone fellow, has a 900 pound frame. A few spring boars. Two fall boars sired by Mo. Wonder King 52203, a 1000 pound boar. MR. & MRS. HENRY SHRADER, Bogue, Kan.

DUROC SOWS and GILTS

30 fall gilts by G. C's Kansas Col. and 15 yearling and matured sows, all by noted boars. Will sell and hold until safe for fall litter. Also 10 fall boars, tops of our fall crop. CHAPIN & NORDSTROM, Green, Clay County, Kan.

SPRING BOARS AND GILTS.

Best of breeding and top quality. Some early spring boars—good, strong, growthy fellows, will be priced right; by such boars as Agra Top Notcher, Paul Jumbo, Bonney K. and I Am A Bonney K.; also gilts of equal breeding quality and size, priced right. Address W. C. WHITNEY, Agra, Kan.

R. & S. FARM

150 Spring Pigs, sired by King of Kansas, Beat No. 23222, and Golden Ruler No. 80555. Write your wants. Fall sale Oct. 29. Bred Sow Sale, Feb. 2, 1911. RINEHART & SON, Smith Center, Kansas.

BRED SOWS AUGUST FARROW.

Duroc sows and gilts sired by Bell's Chief 4th and bred to richly bred boars. Will sell and ship when safe. FRANK VRTISKA, Pawnee City, Nebraska

JEWELL COUNTY HERD,

headed by Boney K. 47075, all prominent blood lines represented. Fall sale Oct. 27. Sow sale Feb. 1, 1911. W. E. MONASMITH, Formosa, Kansas.

"DUROCS GROWN IN THE OZARKS."

Ohio Chief and Col. Blood. Litters by Uncle Chief, Model Prince, King of Models, Inventor, The King I Am, Advance; several by Col. Carter, my leading herd boar. They are all grown right, are good, and we answer all letters of inquiry. O. L. CARTER, Albany, Missouri.

CHOICE DUROC BRED SOWS FOR SALE.

Among them my show sow Ellere 70424 safe in pig to Tom Davis for fall litter, also fine lot of spring pigs. Write your wants. O. A. ELLER, Pawnee City, Nebraska.

CROW'S DUROC JERSEYS.

Herd headed by Climax Wonder, he by Missouri Wonder. 100 head to select from. Prices reasonable. The electric car runs within three blocks of my farm. Come and see my herd at any time. W. R. CROW, Hutchinson, Kansas.

OHIO IMPROVED CHESTERS

MISSOURI VALLEY HERD O. I. C. SWINE A few choice March and April pigs left. Everything not sold by September 1st reserved for October sale. Pedigrees recorded free. J. M. DRYDEN, Phelps City, Missouri.

MOSSE OF KANSAS

Kansas Herd of Improved Chester Whites. ARTHUR MOSSE, Leavenworth, Kansas.

MAPLE LEAF CHESTERS.

Am making special prices for a short time on boar pigs. A few choice gilts and young sows for sale. Write your wants. R. W. GAGE, R. D. 5, Garnett, Kan.

SAMUELSON BROS.' DUROCS.

Fifty spring boars for sale, the pick of 300 head of spring pigs, sired by 10 different sires, good, growthy fellows; heavy bone, the best of color, good quality. We can suit you in blood lines and quality. Our price right. Come and see or write us. Samuelson Bros., Cleburne, Kan.

BERKSHIRES

STALWART DUKE 117874 heads our Berkshires, he formerly headed the Kansas Agricultural Herd, his sire was Silvertips Revelation by Revelation. His dam was Hood Farm Duchess 18th 22850. Choice lot of spring pigs for sale. J. M. NIELSON, Marysville, Kansas.

POLAND CHINAS

30 BRED POLAND CHINA GILTS. for sale. Spring and summer farrow, bred for April and May litters. Choicest blood line, also 5 mature sows and boars ready for service, one by Meddler. Reasonable prices. F. D. FULKERSON, Brimson, Missouri.

200 LARGE TYPE POLAND CHINAS

Herd headed by Big Hadley, Long John 2nd and John Ex. Young stock for sale at all times. A few choice Hadley boars. CHARLES Z. BAKER, Butler, Missouri

HARTER'S BIG KIND POLAND CHINAS

Headed by Mogul's Monarch 48858 and Capt. Hutch 29068. Over 100 choice pigs to select from. Visitors made welcome. Also Barred Rocks. J. H. HARTER, Westmoreland, Kansas.

POLAND CHINAS WITH SIZE.

Headed by Pawnee Look. I have bred pure bred Polands for 20 years and have learned many valuable lessons, and in the future shall breed nothing but the big smooth kind. More hog and less hot air. F. F. OERLY, Oregon, Missouri.

WALTER'S BIG SMOOTH POLAND CHINAS.

Expansive, one of the best living sons of Expansion, heads herd. A few choice fall gilts bred to Expansive for fall litters for sale. H. B. WALTER, Effingham, Kansas.

CORRECT TYPE POLAND CHINAS.

Headed by Wise's Hadley by Big Hadley, Sows by What's Ex., Kansas Chief, Nemo 1's Dude, etc. 15 choice pigs to pick from. BERT G. WISE, Ebeover, Kansas.

SUNSHINE HERD.

Poland Chinas, bred gilts and yearling boars. Prices reasonable, quality considered. Satisfaction guaranteed. A. L. ALDRIGHT, Pomona, Kansas.

EUREKA herd of pure bred Poland Chinas and Duroc Jerseys, 115 head to select from, with quality, size and good litters. Order early and get the best. Ready to ship after Aug. 1st, at farmers' prices. W. H. Sales, Simpson, Kansas.

DEER PARK STOCK FARM.

Richly bred Poland Chinas headed by the great Impudence E. L. and Noble Chief by Nobleman. Choice lot of spring pigs for sale by Impudence E. L. and Dawley's S. P. Perfection. D. A. WOLFPERSPERGER, Council Grove, Kansas.

CHOICE POLAND CHINA PIGS

Sired by Voter 138535, Perfect Mischief 48911, Senator and Voter's Pride. Sows of equal breeding and richly bred. Pigs ready to ship. Attraction's Voters boars out of Meddler dam. W. C. MILLIGAN, Clay Center, Kansas.

FOR SALE

I STILL HAVE a few good fall boars for sale at very reasonable prices; will also offer my 2-year-old herd boar, O. K. Chief. He is a good individual of the 200-lb. type, heavy bone, a good even breeder. R. J. FECKHAM, Pawnee City, Nebraska.

BIG-BONED POLAND CHINAS

Spring boars for sale, sired by my herd boars: ORPHAN CHIEF by Orphan, JOHN LONG by Long John. The best lot I ever raised. Get your order in early and get your pick of my herd. ROY JOHNSTON, South Mound, Kan.

THE MORTONS

QUALITY AND SHEP POLAND CHINAS. Herd headed by Equipment 51550 by Impudence. For quick sale 20 summer and fall gilts sired by son of Meddler 2nd, bred for August farrow. Also 3 fall boars. All representations guaranteed. THE MORTONS, Tampa, Kansas, Marion County.

BRED GILTS

Sired by First Choice, he by Grand Chief. Gilts bred to Little Lear, a grandson of On and On. Those offered for sale are the tops of a large bunch. The gilts and the price will please you. Write right now to Young & Kimmerling, Glasco, Kansas

BIG TYPE POLAND CHINAS.

Gold Standard by Chief Gold Dust in service. Sows represent the most noted big type strains. Choice lot of spring pigs. WALTER HILDWEIN, Fairview, Kansas

HIGHVIEW BREEDING FARM

Devoted to the Raising of BIG BONED SPOTTED POLANDS. The Farmers' Kind. The Prolific Kind. I am now booking orders for spring pigs to be shipped when wanted. Pairs or trios; no kin. H. L. FAULKNER, Box K, Jamesport, Missouri.

MEISNER'S BIG POLAND CHINAS.

Headed by Metal Choice. Sows are daughters of such sires as Nebraska Jumbo, Pawnee Chief, Big Hadley, etc. Fifty fine spring pigs to date and more sows to farrow. Inspection invited. T. J. MEISNER, Sabetha, Kansas.

BROWN COUNTY POLAND CHINAS.

Oldest herd in Kansas, headed by Major B. by Major Bob 50311. Sows by Big Hadley, Johnson's Chief, etc. 3 extra good fall boars for quick sale, reasonable prices. ELI ZIMMERMAN, Hiawatha, Kansas.

ALBRIGHT'S POLAND CHINAS.

The utility type, headed by N. H.'s Perfection by S. P.'s Perfection. Sows in herd carry the blood of noted sires and have been selected carefully. 40 choice pigs, both sexes, ready to ship. A. L. ALDRIGHT, Waterville, Kansas.

10 SUMMER YEABLING POLAND CHINA GILTS.

By On and On 2nd, bred for June and July farrow to Filbuster by Meddler 111111. \$20 for choice. J. D. WILLFOUNG, Zeandis, Kansas.

SULLIVAN COUNTY HERD.

Poland Chinas, 200 head in herd, best blood known to the breed. For sale 3 choice fall gilts, also 8 Cullie pups. FULLETT BROS., Humpbreys, Missouri.

2 YEARLING BOARS FOR SALE.

Fine Metal by Gold Metal and John C. Hadley by Hadley Boy, both good individuals and have made good as breeders. Will price reasonable. JOHN C. HALDERMAN, Burchard, Nebraska.

PRINCE HADLEY heads our Poland China herd.

His spring pigs are great. Others by Colossus, Mogul's Monarch, Expansion's Son, Sunflower King, Banner Boy and Meese's Mastiff. Write for description of pigs. W. C. Singer, Hiawatha, Kansas.

80 FEBRUARY POLAND CHINA PIGS 80

Large, smooth and good individually. Sired by my herd boars: Wilkes Agra and Grand Success, out of as fine a lot of big type sows as there is in the west. Inspection invited. J. B. WHIPPLE, Fall City, Nebraska.

TEN FALL BOARS for sale; also spring boars by Banner Boy, Big Hadley's Likeness, Colossus, Ned's Expansion and others. Fall sale Oct. 13. Herman Groninger & Sons, Bendena, Kan.

STRYKER BROS.' HERD POLAND CHINAS.

The greatest show and breeding herd in the West. Write your wants and they will please you. Buy the best and make the most. They breed the kind that win; the kind you want. Address STRYKER BROS., Fredonia, Kansas.

SHORTHORNS AND POLANDS.

Herd bull Accom Duke 7th 281038. Polands headed by Big Bone Long. Females represent leading strain. Young stock for sale. FREELAND & WILLIAMS, Valley Falls, Kansas.

RIDGEVIEW STOCK FARM, big type Poland Chinas, headed by Union Leader, Major Hadley and Hadley Prince. Sows by Expansion, Grand Look, Big Hadley, Bell Metal, etc. Spring pigs by herd boars, and Colossus. W. H. Webb, Bendena, Kan.

GEO. SMITH'S BIG POLANDS, headed by Mammoth Hadley, the best son of Big Hadley. Sows, daughters of King Do Do, Johnson's Chief, Gold Metal, First Quality, Chief Gold Dust, 5 litters by Grand Model by Grand Chief. 100 choice pigs doing well. George W. Smith, Burchard, Nebraska.

BLUE GRASS VALLEY STOCK FARM.

Big boned Poland Chinas. Herd headed by Big Hadley, King Ex. 3d, Lone John the 2d and Missouri Wonder. 4 of the best breeding boars of the breed; young stock for sale at all times; everything guaranteed as represented. W. A. Baker, Butler, Mo.

ELMDALE POLAND CHINAS.

Over 100 head in herd. Our aim quality and size. Choice lot of spring pigs for sale. Reasonable prices. C. S. MOYER, Nortonville, Kansas.

GRANER'S BIG TYPE POLAND CHINAS.

Headed by Guys Monarch 51415, the boar with frame for 1000 lbs. and 10 1/4-inch bone. Sows, daughters of Expansion, Colossus, Bell Metal, Big Hadley, Whats Ex., etc. Choice spring pigs for sale by Expansion, Colossus, Expansive and Guys Monarch. H. C. Graner, Lancaster (Atchison Co.), Kan.

THE HAWTHORNE POLAND CHINAS.

Ten Strike, grand champion at the Oklahoma state fair, 1908, heads the herd. Special prices on 20 strictly toppy boars, sired by Ten Strike and out of richly bred sows. These boars are of December and January farrow, good enough to head any herd. 50 choice gilts at very low prices. All pedigrees furnished when boars are delivered. T. M. CHAMBERS, Oswego, Kansas.

LAREDO HERD.

Poland Chinas headed by Impudence Style 132327 and F. K.'s Meddler by Meddler for sale. 15 fall gilts bred for fall farrow and 9 other gilts. G. W. McKAY, Laredo, Missouri.

ADVANCE STOCK FARM.

Home of big smooth Poland Chinas headed by a great son of Big Hadley, his dam, Gold Dust Tecumseh, top of Blain's closing out sale. 60 choice pigs, all but one litter by this boar, out of extra big sows. A. R. ENOS, Romona, Kansas.

CLAY JUMBO 800 lbs.

The biggest yearling Poland China boar in Kansas heads our herd. Frame for 800 lbs., with plenty of quality. 100 pigs ready to ship. Reasonable prices. Herd established twenty years. H. W. GRIFFITH, Clay Center, Kansas.

COLLEGE VIEW POLAND CHINAS.

We offer for sale some extra good pigs of March and April farrow. Plenty of size with quality. Write for price description and breeding. W. A. JONES & SON, R. F. D. No. 2, Ottawa, Kansas.

BAKEWELL'S EXPANSION POLANDS.

Headed by Expansion Over 53110. Boar with immense size and good quality. Sows are daughters of old Expansion, Pan Famo, Grand Look, etc. Herd established 25 years. Choice spring pigs for sale. See Expansion Over at Nebraska State Fair. J. W. BAKEWELL, Endicott, Neb.

STUMP'S BIG POLAND CHINAS.

200 head in herd. Kansas King by Grant-ter and Capt. Hutch by Captain Hutch in service. Great lot of pigs to select from. Write for prices and descriptions. W. R. STUMP, Blue Rapids, Kan.

FIELD NOTES

FIELD MEN O. W. Devine, Topeka, Kan. Jesse R. Johnson, Clay Center, Kan. R. G. Sollenbarger, Woodston, Kan.

PURE BRED STOCK SALES

Percherons, Belgians, and Shires. Nov. 1, 2, 3, 4 1910—Breeders' Sale Co., Bloomington, Ill. Nov. 10—Sale at farm. J. C. Robison, To-wanda, Kan. Jan. 10, 11, 12, 13, 1911—Breeders' Sale Co., Bloomington, Ill. Feb. 22, and March 1, 2, 3, 1911—Breeders' Sale Co., Bloomington, Ill.

Percherons, Butler, Mo.

Hereford Cattle. Oct. 10—J. W. Barnhart, Butler, Mo. Nov. 10—T. J. Woodall, Fall River, Kan. Nov. 15—O. Harris, Harris, Mo.

Holstein Cattle.

Feb. 7, 8, 1911—Rock Brook Farm, Sta. B, Omaha, Neb., 150 head will be offered.

Jersey Cattle.

Sept. 1—Golden Sunrise Farm, Kansas City, Mo.

Shorthorn Cattle.

Nov. 15—J. E. Jones, Clyde, Kan. Feb. 8—T. J. Charles, Republic, Kan. Feb. 22—Phillip Albrecht, Smith Center, Kan.

Berkshires.

Aug. 16, 1910—Chas. E. Sutton, Lawrence, Kan.

Durocs.

Oct. 19—G. Van Patten, Sutton, Neb. Oct. 25—Leon Carter, Asherville, Kan. Oct. 26—J. H. Pagett, Beloit, Kan. Oct. 27—W. E. Monasmith, Formosa, Kan. Oct. 29—Rinehart & Slagle, Smith Center, Kan.

White Bros., Buffalo, Kan.

- Nov. 16—J. L. Williams, Bellaire, Kan.
- Nov. 16—J. E. Joines, Clyde, Kan.
- Nov. 19—Phillip Albrecht, Smith Center, Kan.
- Jan. 20—A. T. Cross, Guide Rock, Neb.
- Jan. 21—Ward Bros., Republic, Kan.
- Feb. 1—W. E. McNameis, Formosa, Kan.
- Feb. 2—Thompson Bros., Garrison, Kan.
- Feb. 2—G. P. Phillippi, Esbon, Kan.
- Feb. 3—Rinehart & Slagle, Smith Center, Kan.
- Feb. 4—W. C. Whitney, Agra, Kan.
- Feb. 6—J. L. Williams, Bellaire, Kan.
- Feb. 8—O. A. Thier, Pawnee City, Neb.
- Feb. 13—T. E. Gothe, Leonardville, Kan.
- Feb. 14—Chapin & Nordstrom, Green, Kan.
- Sale at Clay Center, Kan.
- Feb. 16—Leon Carter, Asherville, Kan.
- Feb. 16—W. T. Fitch, Minneapolis, Kan.
- Feb. 17—L. E. Boyle, Lindsey, Kan.
- Feb. 22—Phillip Albrecht, Smith Center, Kan.

Poland Chinas.

- Sept. 20—J. D. Spanier, Sharon, Kan.
- Oct. 4—Bert C. Wise, Falls City, Neb.
- Oct. 12—W. B. Stafford, Bronson, Kan.
- Oct. 13—Bert Wise, Reserve, Kansas.
- Oct. 14—T. J. Daws, Troy, Kan.
- Oct. 15—J. B. Whipple, Fall City, Kan.
- Oct. 15—H. C. Dawson's Sons, Endicott, Neb., sale at St. Marys, Kan.
- Oct. 17—A. R. Enos, Romona, Kan.
- Oct. 18—Herman Groninger & Sons, Bendena, Kan.
- Oct. 19—A. B. Garrison, Summertield, Kan.
- Oct. 20—Hubert J. Griffiths, Clay Center, Kan.
- Oct. 21—J. M. Ross, Valley Falls, Kan., and W. E. Long, Ozawkie, Kan., sale at Valley Falls, Kan.
- Oct. 22—H. C. Graner, Lancaster, Kan.
- Oct. 22—Ell Zimmerman, Hiawatha, Kan.
- Oct. 25—W. C. Singer, Hiawatha, Kan.
- Oct. 26—W. H. Webb, Bendena, Kan.
- Oct. 26—G. M. Hull, Garnett, Kan.
- Oct. 27—F. A. Tripp & Son, Meriden, Kan.
- Oct. 27—Walter Hilweil, Fairview, Kan.
- Oct. 28—J. H. Harter, Westmoreland, Kan.
- Oct. 28—I. R. Berkey, Louisburg, Kan.
- Oct. 28—J. R. Berkey, Louisburg, Kan.
- Nov. 1—J. H. Hamilton & Son, Guide Rock, Neb.
- Nov. 1—H. B. Walter, Effingham, Kan.
- Nov. 1—H. F. Pelphrey, Humboldt, Kan.
- Nov. 2—J. W. Pelphrey, Chanute, Kan.
- Nov. 3—Albert Smith & Sons, Superior, Neb.
- Nov. 3—H. W. Griffith, Clay Center, Kan.
- Nov. 3—R. J. Peckham, Pawnee City, Neb.
- Nov. 3—The Mortons, Tampa, Kan.
- Nov. 3—George W. Smith, Burchard, Neb.
- Nov. 3—D. W. Evans, Fairview, Kan.
- Nov. 4—W. A. and C. Z. Baker, Butler, Mo.
- Nov. 4—Bert C. Wise, Reserve, Kan.
- Nov. 4—G. W. McKay, Laredo, Mo.
- Nov. 5—Fuller Bros., Humphreys, Mo.
- Nov. 5—Poland China bear sale, W. B. VanHorn, Overbrook, Kan.
- Nov. 9—T. J. Meisner, Sapetha, Kan.
- Nov. 10—W. R. Stump, Blue Rapids, Kan.
- Nov. 11—S. B. Amcoats, Clay Center, Kan.
- Nov. 16—W. A. Prewett, Asherville, Kan.
- Nov. 18—G. W. Roberts, Larned, Kan.
- Jan. 18—H. F. Pelphrey, Humboldt, Kan.
- Jan. 18—J. W. Pelphrey, Chanute, Kan.
- Jan. 20—Roy Johnston, South Mound, Kan.
- Nov. 22—W. D. McFarland, Chase, Kan.
- Nov. 23—C. H. Pletcher, Glasco, Kan.
- Jan. 3—J. M. Collins, Garnett, Kan.
- Jan. 25—W. H. Stump, Blue Rapids, Kan.
- Feb. 7—J. M. Ross and W. E. Long, Valley Falls, Kan.
- Feb. 8—H. B. Walter, Effingham, Kan.
- Feb. 8—T. J. Charles, Republic, Kan.
- Feb. 9—Albert Smith & Sons, Superior, Neb.
- Feb. 10—J. S. Sawyer, Abilene, Kan.
- Feb. 10—J. H. Hamilton & Son, Guide Rock, Neb.
- Feb. 16—J. H. Harter, Westmoreland, Kan.
- Feb. 17—Bred sows, E. VanHorn, Overbrook, Kan.
- Mar. 4—C. H. Pletcher, Glasco, Kan.

NEW ADVERTISERS IN THIS ISSUE.

It always pays to keep posted on what advertisers are offering. Lock up the announcements of those new advertisers and mention KANSAS FARMER when writing them. Doing this will be of benefit to both you and the publisher as well as the advertisers.

The Owl Land Agency, Ozawkie, Kan.
 O. C. Paxson, Ozawkie, Kan.
 Alva Hardin, Ozawkie, Kan.
 F. A. Lake, Ozawkie, Kan.
 W. M. Bennington, McLouth, Kan.
 S. M. Strawn, Valley Falls, Kan.
 Compton, The Land Man, Valley Falls, Kan.
 J. M. Royer, Valley Falls, Kan.
 William Harrison, Whiting, Kan.
 E. L. Horth, Centralia, Kan.
 O. L. Holland, Coffs, Kan.
 All the above are Real Estate Dealers making a specialty of Corn, Clover and Bluegrass lands in northeast Kansas.

The Shorthorn Herd Book.

Volume 74 of the American Shorthorn herd book is now ready for distribution. It contains the pedigrees of 9600 bulls numbered from 307001 to 316000 and of 11,000 cows numbered from 47001 to 58000. This volume is priced at \$2.30 postpaid or \$2.00 at the office of Secretary John W. Groves, Stock Yards Station, Chicago. Volume 75, containing the pedigrees of 8000 bulls and 12,000 cows, is well in hand and will be ready for the public about December 1, while Volume 76 has been filled and pedigrees are now coming in rapidly for Volume 77. Write Secretary Groves for either volume or registry blanks.

Draft Horses at Topeka State Fair.

One of the features of particular interest to the patrons of every fair is the draft horse department. It makes no difference whether the sightseer comes from the city or country there is something about the big sleek coated well fed animals in this department that appeals to all. They are man's true friend, the personification, as well as the unit of power, and today the monster engines which speed the fast trains across the continent, plow the waters of the deep blue ocean or the smaller ones which aid the farmer to do his chores are rated by their horse power. This department of the Topeka State Fair, which will be held at Topeka from the 10th to the 17th of September, is in charge of Senator H. W. Avery, Wakefield, Kan., one of the best posted men on this line of stock in the state. Through his efforts this department promises to be the best of the kind ever shown at a fair in the Middle West, with entries from eastern as well as western importers.

TRAINING OUR FUTURE HOME-MAKERS.

(Continued from page One.)

ten who go out from the home to meet the problems of life with the lessons unlearned. Even the skillful and efficient mother under the present economic and industrial conditions can do little towards training the girl in the various lines of domestic management. Only a short time ago a mother said to me, "I want my daughter to know such things, but I have neither the time nor the patience to teach her. I can do it more quickly myself." There was a time when mother and daughter in a pleasant companionship learned these things through the home occupations, but because of changed conditions home training has become almost a thing of the past, and a study of home problems is necessary for all true mothers and real helpmeets.

To all home makers—present or prospective—who have not had the advantage of careful home training, the study of household economics is of direct benefit, and even for such fortunate ones further study is necessary to acquire modern ideas of sanitation, of the care and training of children, the laws of hygiene and the treatment of sickness. Such



PROF. MARY P. VAN ZILE, Dean of Women and Professor of Domestic Science in Kansas Agricultural College.

training is given in a well planned course in home economics. The training given is as varied as it is broad. It includes a knowledge of the laws of health, an understanding of the sanitary requirements of the home, the study of values, both absolute and relative, of the various articles used in the home, including food; the wise expenditure of money, time and energy; the scientific principles underlying the selection and preparation of food; the right care of children, both physical and mental; and the ability to secure efficient service from others. Instruction must be methodical and thorough and suited to the circumstances of the pupils. When these conditions are fulfilled experience shows us that lessons in home economics teach contentment, industry, order and cleanliness, and foster a woman's independence and feeling of responsibility. The girl is taught to apply all her general training. The study of art enables the housekeeper to build and furnish her home with taste; of chemistry, to provide for its sanitary construction and for the proper preparation of all food materials; of physics, to gain the knowledge of heat, light, power and electricity, which may all be used in her home; of economics, to manage her household on business principles; of physiology, to study the physical development of her children; and of psychology, to observe their mental growth and base their training upon it.

With all this, the girl learns to take care of herself, and with a trained mind in a healthy body she can accomplish great and good things in any environment in which she may be placed.

The problem of how to adjust the family income to standards of living will be much nearer a solution by giving our girls a careful training in domestic management. No matter what her situation in life may be, the woman is and ever will be the great consumer of the world. She buys the clothing for the family, selects the

furnishings for the home; rugs and hangings for the rooms, china and glass and linen for the table. It is, therefore, necessary that every girl should receive such training as will teach her to discriminate between the real and the make-believe, the judicious and the injudicious purchase.

The well rounded curriculum includes courses in domestic art also. The study of clothing can and should be based on high and honest ideals. It seems to me that it is our privilege to teach a better idea of clothes; what clothing means, the use of clothing, etc. It sometimes seems in this day and age we lose sight of the primary object, that of keeping the body warm and well, and that we get a long way off from this primary use of clothing. We can well bring out the hygienic use of clothing in our classes, also the appropriateness of dressing. This subject of appropriateness is a broad one and may be made the means of teaching many lessons.

The color side is always one of the most interesting things to me; it seems that one of the best things we can do for our pupils to give them a good color training. This is done in courses in color and design where the students are taught to bring out harmonious effects by artistic combination of colors.

There is a great deal of criticism of our modern schools because, it is said, they attempt so many things that the pupil knows nothing well. Whether there may be any truth in this criticism or not, what we want is that our schools should prepare their students for life, and if elimination is necessary, let it be the study of the dead languages and not the things vital to the problems of living.

President Waters in his inaugural address says: "As much as has been done along these lines in the schools of our land, real work has scarce begun, and we scarcely realize what this great movement means and what will be its future development. Certain are we, however, that it means something more than the mere teaching of young women how to sew and how to cook. It has involved in it the whole question of home building and the rearing of a strong and virile race of people. The dream of the ancients is thus beginning to be realized—a strong mind in a strong body. But we have only begun to take this broad view of the matter and have scarcely begun work on this broad basis. Times are strangely out of joint when we justify the extensive scientific inquiries into the way to rear a strong and vigorous race of pigs or sheep or colts or cattle, and are content with the very meager knowledge which we possess of the nutrition of man. We have millions for research in the realm of domestic

animals and nothing for application of science to the rearing of our children. Exhaustive studies are made upon the life histories of animals of the lower orders, while vital facts in regard to the life history of our children remain a sealed book. We know how the amoebae develop, but are content to remain in ignorance of what factors contribute to the development of a strong body and sound mind in mankind. For centuries we have let the injunction 'Know thyself' go unheeded, and have forgotten that 'The greatest study of mankind is man.' For every dollar that goes into the fitting of a show herd of cattle or hogs or into feeding domestic animals, there should be a like sum available for fundamental research in feeding men for the greatest efficiency."

I plead then for this general training for our girls, not alone for the benefit of this generation, but for generations unborn. Let us bring to bear upon this subject all the intellectual strength and all the genius at our command. Out of this movement will then come the uplifting of the home ideal, the rearing of finer and stronger men and women into freer and fuller lives of usefulness and happiness.

The Kansas State Fair Association announces an error in its premium list. In the calf classes of the beef breeds the printed requirement is for 1 bull and 4 heifers whereas the real requirements are for 1 bull and 2 heifers. Breeders of beef breeds please take notice and be at Topeka by Saturday, Sept. 10, with their calf herds of 1 bull and 2 heifers.

Reliable Buggies and Harness.

In this paper you will find the advertisement of R. Kieley Sons Hardware Co., California, Mo. This firm is a new advertiser in Kansas Farmer, and they come in highly recommended, as reliable people, dealing in high grade goods, with a reputation for honest dealing of many years' standing. Their catalog is free for the asking and will prove of value to every one contemplating the purchase of a buggy or harness. Write for it, mentioning this paper.

300 Poland Chinas and 200 Shorthorns.

A field man for Kansas Farmer called last week on the well known breeder, C. S. Nevius of Chiles, Kan., and looked at the best herds of Shorthorn cattle and Poland China hogs we know of. Mr. Nevius is offering a few choice Prince Pavona bulls for sale. They are large, thrifty fellows and will make herd bulls fit to head any good herd. The show herd of cattle is doing fine and we predict that Mr. Nevius will go away from all the leading fairs with the usual smile and an arm full of ribbons. The Poland Chinas are the best we ever saw on the farm. Mr. Nevius has the best lot of spring pigs he ever raised. They are the real "Designer kind." They are large and growthy and are grown in a way that they will go on and make good for the purchaser. To prove what we say the writer has carefully made inquiry from breeders that have bought sows from Nevius' sales last year, and we find a record of 25 sows sold in his sales. This number have raised a total of 200 pigs, or an average of 8 pigs for each of the 25 sows sold. This is what Nevius calls "proving out." If you want good Shorthorns or good useful Poland Chinas write to C. S. Nevius. He has them for sale. Kindly mention Kansas Farmer when you write.

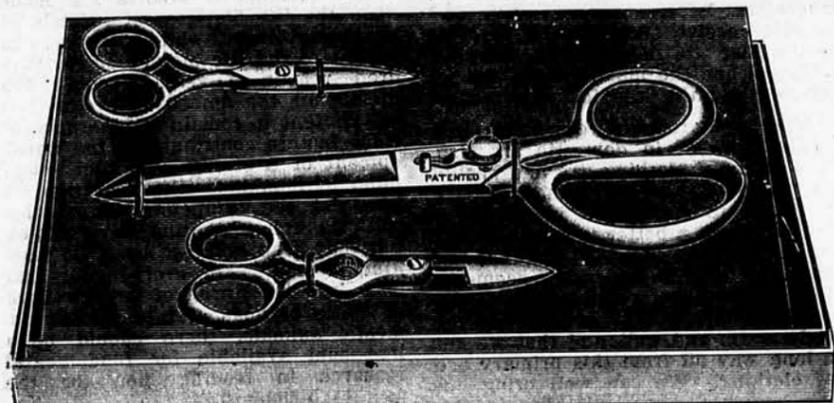


Sutton's Berkshire Sale.

No breeder has made himself felt in breed circles more than C. E. Sutton of Sutton Farms, Lawrence, Kan., and no breeder of pure bred live stock has done more to show to the farmer the money making power of the pure bred as compared with the scrub. Mr. Sutton is president of the Kansas State Board of Agriculture in addition to being the owner of one of the largest and most successful breeding farms in the state. While he is known wherever good Berkshires are appreciated, he is also known as the owner and breeder of the "Sutton Dod-dies" and of draft horses as well. The champion pen of Berkshires shown at the Kansas State-Wide Fair last fall is now owned and will be shown in New York. The grand champion shown at the Louisiana

State Fair last year was bred by Sutton and many others have carried away blue or purple ribbons at the big shows. Perhaps the one animal which attracts attention to Sutton's Berkshire farm more than any other is Herrvton Duke, Jr., his famous herd boar. Not only is this boar a famous prize winner, but he is a famous sire and his get have won ribbons far and wide. This fact adds special interest to the public sale on August 16 at Lawrence, as a large number of the sows and gilts to be sold will be bred to him. This is one of Sutton's big sales and the offering will not only be the best he has ever made but the best Berkshire offering that will be made in the West this year. Remember that the sale will be held at Lawrence, Kan., on Tuesday, August 16, and be sure to be on hand.

THE PRACTICAL FAMILY SHEAR SET



A Necessity in Every Household

This set consists of one pair of 8-inch Patent Tension Shears; one pair of Embroidery Scissors 4 1/4 inches in length; and one pair of Buttonhole Scissors 4 1/4 inches long. All three are made of genuine tool steel, and are heavily nickel plated. The Patent Tension feature of the big shears does away with the necessity of resharpening and enables the user to set the Tension so that every kind of material may be cut with perfect ease without tiring the hands. The Tension arrangement takes up all the wear on the hinge, making the shears practically everlasting.

You Can Get This Set Free We Even Pay The Postage

HERE'S HOW TO GET IT: If you are back on your subscription to KANSAS FARMER, not more than six months—send \$1.50 (cash, stamps, money-order or check), and we will mark your subscription paid for the year, and also one full year ahead—TWO FULL YEARS—and by return mail, we will send you, in addition, the Shear Set absolutely free.

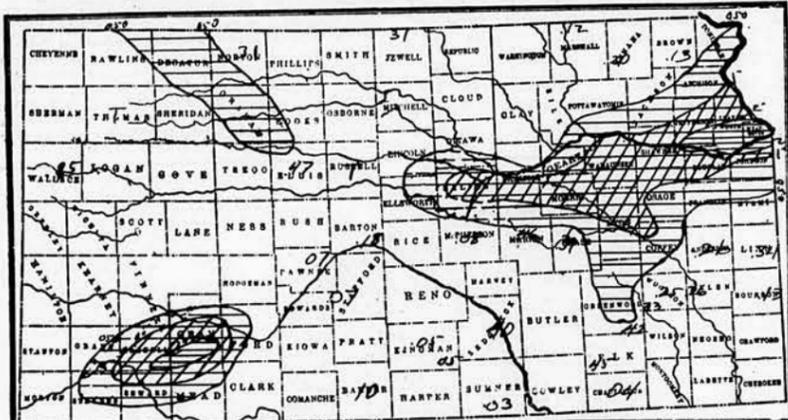
If your own subscription is paid to date, or in advance, send us a new subscription for a friend or neighbor, together with \$1.50, which will pay for the new subscription for a full year, also a full year in advance on your own, and will, in addition, bring you, by return mail, the Shear Set, absolutely free. Then for good measure, we will send, postpaid, a single pair of the large Shears shown in the set, to your friend or neighbor.

Address all orders to

KANSAS FARMER, Topeka, Kan.

KANSAS CROP REPORT and Rain Fall for week ending August 6

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



GENERAL CONDITIONS.

Though the first days of the week were very warm, the latter part of the week has been quite cool with the temperature from 6 to 10 degrees below normal.

Light showers occurred in various parts of the state on the 2nd and 3rd with heavy rains in the Kaw Valley and the upper portion of the Neosho Valley. Heavy rains also occurred in some of the southwestern counties, while good showers occurred from Decatur to Ellis counties, and the week closes with a more general rain over the state. Pastures, gardens, late corn and feed crops are improving.

Results.

Eastern Division.

Anderson—Local showers in county. Still need more rain.
Bourbon—Grass beginning to grow. Corn was badly damaged by winds last week. Not much change in weather conditions, except not so hot.
Chase—About enough rain for corn to hold its own during week. About half a crop of prairie hay is being cut.
Chautauqua—Still hot and dry. Temperature 109 on the 2nd.
Coffey—Conditions much improved. Showers covered the county, the heaviest being

in the northwest part of the county, and were beneficial.

Douglas—Conditions favorable. Some wheat averaged 22 bu. to acre, some oats 80 bu. Third crop of alfalfa about all secured. Corn begins to look better, but as to actual damage is hard to determine at present.

Elk—Still needing rain very badly. Some fodder being cut. Prairie hay mostly a very light crop.

Greenwood—Corn could not now make over one-fourth crop with rain in southern part of county.

Johnson—Much cooler. Rain on 2nd quite beneficial; more rain needed. Corn doing fairly well, pastures and gardens are suffering for rain.

Linn—Showers on the 2nd, with cooler weather, checked the damage; but are needing a good soaking rain to raise over half a crop of corn. Pastures are short and stock water is scarce.

Marshall—Light showers Monday night. The drouth and hot wind damaged corn some. Pastures dried up badly in some parts of the county. Everything needs rain.
Nemaha—Light showers on the 2nd afforded some moisture, but more is needed for pastures and gardens.
Shawnee—The hot week damaged the early corn and stunted the grapes.

Woodson—Early corn a failure. Hay about three-eighths crop. Kafir corn doing well, not headed yet.

Middle Division.

Barber—Crop conditions have improved some. Local showers have occurred in different parts of the county. No hot winds during the week, though temperature reached 108 on the 2nd.

Barton—Very dry yet. Corn may give half a crop if it rains soon, some fields are damaged badly. Ground too hard to plow in some places.

Dickinson—Corn has maintained itself fairly well after the showers, but is badly damaged. Threshing about finished.

Jewell—Four days of cloudy weather and cool nights, with showers on two days. Corn is standing it well. Potatoes a fair crop.

Kingman—Most of the corn is too far gone to be helped by rain. The ground is setting too dry to plow.

Marion—Conditions have improved. Good showers have fallen over most of the county. Corn not badly hurt, will still make three-fourths crop.

Pawnee—A few slight showers have fallen the past week, but not sufficient to amount to much. Weather continues hot, though not so extremely hot.

Saline—Good showers this week will save a partial corn crop.
Summer—Hot and dry with only a few light showers, but the week closes with a better promise.

Western Division.

Clark—Roads very dusty. Wind and dust very disagreeable. Corn and feed crops are damaged 50 per cent, with some fields ruined.

Decatur—Late corn and feed crops greatly benefited by the recent rains. Early corn was too far gone to revive.

Gove—Very hot and dry for two weeks. Corn needing rain badly.

Gray—Corn damaged about 70 per cent. More than two inches of rain on the 3rd, of great benefit to grass and feed crops.

Hamilton—Weather dry and hot but crops have suffered little or no damage so far.

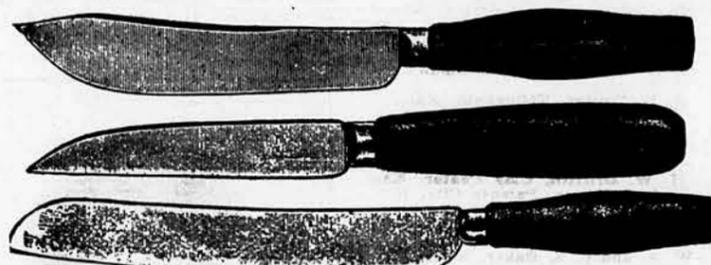
Norton—The rains have been local. The southwestern portion of county received good rain on 3rd. Crops are in bad shape.

Thomas—Another dry week with only a trace of rain. Pastures getting very short. Wheat threshing progressing. Some farmers preparing to sow fall wheat. Corn about gone.

Wallace—Hot dry week; fair rain in south part of county. Corn, broomcorn and cane doing fairly well. The week ends with rain.

When Writing to our Advertisers, Be Sure To Say "I saw your adv. in KANSAS FARMER." Our advertisers like to know which paper brings them the most orders.

SUPERIOR KITCHEN KNIFE SET



THE THREE KNIVES SHOWN IN THIS SET ARE:

A Bread Knife, 12 1/2-inch Blade; a Paring Knife, 7 1/2-inch Blade, and a General Utility Knife, 10 1/2-inch Blade.

We buy these Knife Sets from the Simmons Hardware Co., of St. Louis, Mo., and that fact alone is a strong guarantee of their splendid worth. The blades are of finest steel, tempered in oil and the handles are waterproof. The liability of rust and decay is thus reduced to the minimum.

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Send us one new subscription for KANSAS FARMER, together with \$1.50 (cash, stamps, money order, or check), and we will: (1) mark your own subscription paid in advance, for one full year; (2), mark the new subscription you send, paid up for one full year; and (3), send you absolutely without any extra cost, one of these Kitchen Knife Sets, by return mail. Be sure and write names and addresses plainly, to prevent mistakes. Address,

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