

KANSAS FARMER

FOR THE IMPROVEMENT OF THE FARM AND HOME

Volume 49, Number 27 TOPEKA, KANSAS, JULY 8, 1911. Established 1863. \$1 a Year

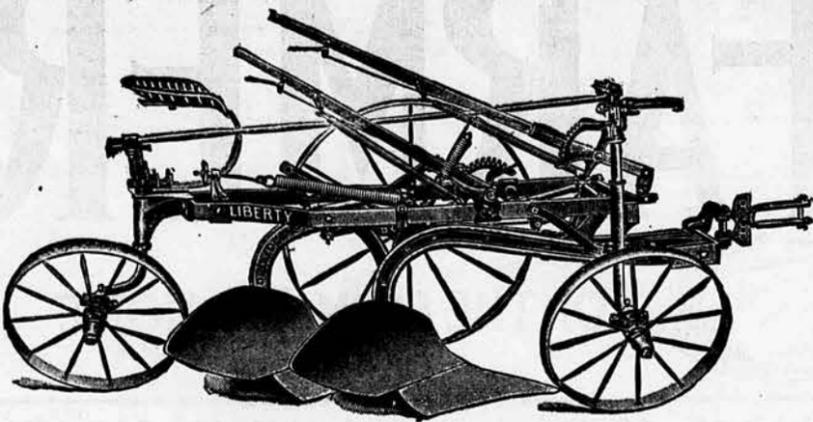
TO the human atom whose world is bounded by the sweep of his outstretched hands in their grasp after wealth the plains of Kansas may seem but a dreary waste.

Yet amid these billowy waves of green the heart of nature beats strongest, and she teaches the elder scripture, undefiled by man. To him who reads comes wealth and knowledge and wisdom. Below the grass roots he finds a store of coal and ore and oil and salt for his own needs and a surplus to others; from the fields, the corn and wheat to fluctuate the markets of the nation; from her pastures the live stock to dominate the world's second packing center and from her alfalfa, nature's choicest benediction.

With these has grown the man himself. Through adversity he has found the wealth beneath the sod; developed a new agriculture where none was; lifted his state to a royal sphere and made himself a Kansan. —I. D. G.



Here The Heart Of Nature Beats Strongest



Rock Island Liberty Gang with Universal (CTX) Bottoms

ROCK ISLAND Universal (CTX) Bottoms

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

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

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

But until two years ago just one thing was lacking—

An All-Purpose Bottom

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

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

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

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

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

Prove it Yourself

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

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

ROCK ISLAND IMPLEMENT CO.

Kansas City, Mo.

Oklahoma City, Okla.

Safe, Quick Threshing

No Fires—No Delays

NO DANGER with a Modern Farm Horse. No fire anywhere to start straw or endanger grain stacks. No excessive heat for operator as with a steam outfit. No fireman. Attention not necessary every minute as with steam. No tankman, no tank-wagon, no coal, fewer boarders. (How the women folks dread threshing time.) The



MODERN FARM HORSE

(Hart-Parr Gas Tractor)

will keep the separator humming for 14 hours daily on the cheapest kind of kerosene. It's economical to run—costing at least one-third less than steam.

"On the Job"—The Hart-Parr stands in a class by itself in this respect—it is remarkable for the steady motion it gives to any separator, and its uniform delivery of power—hour after hour. This counts heavily for threshermen's or farmers' profits. Every 15 minutes of delay means a direct money loss of \$2.50 to \$5.00.

Friends—don't disappoint yourselves. Investigate a Hart-Parr Tractor before you spend good money on any power—horses, steam or gas. New Book and Catalog Free.

HART-PARR CO.

212 Lawler Street, Charles City, Iowa



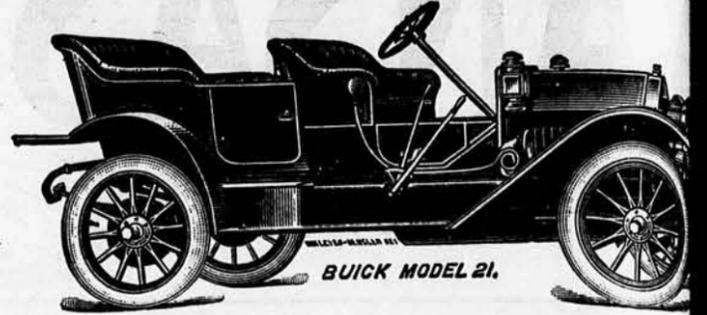
Hotel Kupper

11th and McGee
KANSAS CITY, MO.

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

European Plan, \$1 per Day and Up

America's Greatest Automobile A High-Grade Car at a Medium Price



Buick Model 21

PRICE { \$1500 F. O. B. FACTORY. HALF FORE-DOOR,
\$1550 F. O. B. FACTORY. FULL FORE-DOOR.

In the "Model 21" Buick you have, for its price, the most powerful, most durable, and most consistent car in America.

In building "Model 21" every possible care was taken to make ideal automobile for country roads as well as for smooth city streets. It is so powerful that all hills "Give Up" to it. When you are "Buick 21" you don't have to work your passage shifting gears. It takes them all on "High." It's speedy, also. You will never have to take any one's dust if you own a "Buick 21." It is the car that you always be proud of. It is not only substantial looking, but graceful in its lines. Either half or full fore door. Purchase a "21." You at once become a Buick salesman, and you will always be a Buick enthusiast. If you want to get the Greatest Automobile ever offered, if you want a car that will always be your best—a car that always runs the same, ask the nearest Buick dealer "Model 21," or write us direct.

Over 77,000 Buicks built, and we challenge you to produce a better one.

Buick "Model 21" is covered by a liberal guaranty for one year. Ask us what we mean when we say "The 100 per cent Automobile."

Buick Motor Company

Kansas City, Missouri

"When Better Automobiles Are Made Buick Will Build Them"

Powerful, Double-Energy "SMALLEY" Fills Silos at Vast Money-Saving

This amazing farm worker handles the whole job ALONE! Because it's the Only Positive Force-Feed Cutter! Just needs one man to lay the bundles on. The powerful chain feed with grip hooks, shoots the bundles along—without stopping they hit the roller and—ZIP!—up they go like lightning into the silo as ensilage bales! Just stays right on the job every minute! Eats up the bundles fast as you feed. The "Smalley" gets the silo-filling done quicker than any other cutter in the world because its capacity is 25% greater—size for size and price for price—than any other cutter. Save money, time and toil by turning over the silo-filling to the hustling



SMALLEY FORCE-FEED ENSILAGE CUTTER

It has a hundred unparalleled features (see Note its 1911 improvement in circle to left). It absolutely prevents feed chain breakage! The "Smalley" is the world's greatest cutter because it is limited—cutters are snapped up by farmers as quickly as made! So, in order to be disappointed, write us today. When your time comes, you've got the cutter you've always wanted. Biggest money-saving proposition possible. Valuable, New 1911 Book—Free! Contains 100 pages of valuable facts about cutters and ensilage filling proposition. A postal or letter form, with filling proposition. A postal or letter form, with state name of your implement dealer—write today!

SMALLEY MFG. CO. (Est. 1857) 17

This New Press Enables Hay Balers to Clean Up \$10 a Day

With hay at its present price and a new Sandwich Motor Press, any hay baler can clean up \$10 a day. Baling hay is a delightful occupation, and you can make more money during the six months' baling season than most men make in a whole year. The few hundred dollars you invest in an outfit brings you big returns as the same amount put into farming or a retail business.

The Motor Press is a combination Sandwich All-Steel Belt Power Press and high-grade gasoline engine. Complete and compact. Works like lightning—easy to move—always ready for work—no setting up of engine required. Chain drive. No belts to adjust, or lose power. Easy to start or stop press instantly.

Sandwich All-Steel Motor Press

This outfit bales 2 1/2 to 3 1/2 tons per hour. Has self-feeder equipment. Takes double charge of hay. Has no condenser box, needs no foot tamping—feeds direct from fork. No bal-ance wheels, no complicated gears, no high speed machinery. Fast, simple, strong and light of draft. Should be smaller outfit—one less expensive and capacity of, say 1 1/2 tons per hour, we can use either a 4 or 6 H. P. gasoline engine.

We make presses with or without wood frame and steel frame, horse engine power, in all sizes. 5-ton per hour capacity. Drop us a line today. Profits in Hay Baling. Tell you more about the full Sandwich Motor Press.

Write for Free Book on Hay Baling (42) Bales 3 1/2 Tons Per HOUR



MAPLEINE FLAVORING

Use it like lemon and vanilla. A delicious is made by dissolving white sugar in water, adding Mapleine. Grocers sell Mapleine. Send 35c for 2oz. bottle and recipe book. Dept. 0 CRESCENT MFG. CO., Seattle

KANSAS FARMER

EDITORIAL

ARM AT THE STATE FAIR.

the most attractive features of the Kansas State Fair at Topeka in September will undoubtedly be the exhibits of farm products. These shown as individual exhibits of grasses, etc., in their proper groups together to form exhibits. The same materials used in both these exhibits. More important than these, however, a special class provided for individual farm exhibits. These must be the largest and best display products, consisting of corn, fruits, seeds, grains, sheaf stalks, etc. grown in 1911 on the farm and exhibited by the farmer. Separate exhibits are required in this class and cash prizes of \$15, \$10 and \$5 will be given by the Fair Association to the winner of the first, second and third prizes, respectively.

In addition to these cash prizes the National Harvester Co. of America will give a No. 8 feed grinder to the winner of the first prize, the Palace Clothing Co., of Topeka, will give a \$20 suit of clothes to the second prize winner, and the Ward Athletic Supply Co., of Topeka, will give a \$15 double barreled shotgun to the winner of third

prize. The effort be worth while? Show your farm and make a complete display of its products in Class 49 and together with other exhibits and show in the individual county and also in the county exhibit county.

Cash prizes are not offered that show bigger stuff than is shown in any other state or bigger than has been grown in Kansas, for years, but that you may show the stuff which you grew on your own farm.

County counts, and what you show compared only with what other counties have grown this year under the same conditions.

Entries are being made for farm exhibits and the privilege of being selected. Write to Secretary H. C. Topeka, Kan., for entry blanks and any additional information.

FAIR TO FARM CHILD.

Superintendent Fairchild of the Department of Public Instruction has issued one of the most important reports that has ever come from a department of state. It calls attention to many facts which should be known to every parent and suggests many things for the betterment of our public school system.

One of the most important of the things to which the superintendent's attention is directed is the problem of supervision. He states that only 70 per cent of the school children of Kansas are under the supervision of the county superintendents. It is a task of immeasurable importance, a service which calls for the highest order of talent. Our schools are supervised by a body chosen because of special fitness and preparation. They are, in many instances, well paid and their office depends upon their success as administrators. Their work is measured by no political standard. Our present system of sending and dismissing our county superintendents is wholly wrong and does a menace to our schools. The great majority of the children of the state can never come to their schools and never enjoy the general opportunity guaranteed by the constitution. The county superintendents are chosen because of their educational fitness and the office itself is completely divorced from politics. They should be paid in proportion to the magnitude and importance of their work, and, having demonstrated their ability, should be retained in the office as long as they render efficient service. In the name of more than 1,000,000 rural school children I plead for this simple act of justice. Adequate salaries, reasonable expense and terms of office should be provided. This great reform can be accomplished when all

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

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

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

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

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

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

KANSAS FARMER COMPANY, TOPEKA, KANSAS.

educators, all real friends of education, shall unite in a campaign for these righteous conditions, conditions that involve an amendment to the constitution so that county superintendents may be elected by representatives of district boards of education, thus, in effect, employing the system now in operation in our cities."

Too often we merely drift in educational matters and do not progress. Certain it is that under the usual Kansas conditions the farm boy and girl does not get educational advantages anywhere approaching those given the town boy and girl. They do not get what is pledged to them by the constitution of the state. They do not get a square deal.

CASH FOR AN IDEA.

Is the time coming when the great bulk of farm crops and live stock will be produced on the small or medium-sized farm by good cultural methods, the help of the home folks and machinery, rather than on the great ranches under bonanza methods, as has been true in the past?

We believe it is and that when such a time fully comes both the nation and the individual will be the benefactors. No nation is so rich, so stable in its form of government or so permanently established as that one which is made up largely of land-owning farmers. They are always the conservative element; the substantial foundation of all prosperity. Upon them, in this country, rests the problem of feeding our rapidly growing population by increasing the yield per acre, and this they can best do by the adoption of better methods and not by the cultivation of a greater area.

You have ideas upon this subject and these ideas are valuable—valuable to your neighbor, who needs the information you have, but more valuable to you, because of the fact that you write them down, make drawings to illustrate them and put your own thoughts in a concrete form.

KANSAS FARMER wants your ideas on how you would equip an 80-acre farm so as to make of it a money-making institution and a comfortable home. More than this, KANSAS FARMER is willing to pay you for these ideas.

Just suppose you had a bank account on which you could draw to equip such a farm with all the necessary buildings, implements, live stock and kitchen appliances that would make of it a good home and a money-making proposition, how would you spend the money?

The president of the KANSAS FARMER company will pay \$15 in cash for

the best article and illustrations; \$10 for the second best, and other prizes for others who submit reports.

It is a great contest and worth while. Wouldn't you like to have one of those KANSAS FARMER prizes? Just try.

COLD BLOODED BUSINESS.

In successful business and manufacturing concerns it is found that cold blood does not pay as a business policy. Methods of handling men have changed very materially in the last quarter century and even more so in the last decade and the day has gone by when we can get the best out of good men by harsh measures. The owner or manager who abuses his employees, does not sympathize with them and encourage a spirit of loyalty to himself and the business is not long for his job or is wasting his resources.

There should be a feeling of mutual confidence and respect between employer and employee. Both must work for the success of the business and be loyal to it. The employee should take a personal pride in his work and in the knowledge that he contributes to the success of the whole. He must not be a mere "clock watcher," with no interest beyond rendering the smallest amount of time and service for the largest pay check. He must have a loyalty which cannot be bought by the pay envelope but can be secured through the personality of the employer. When such a condition exists the business is sure to prosper because all are working for its success.

The nagging employer who is always ready to criticize or to threaten and who never praises for work well done is about the greatest incubus that any business can have and if it succeeds at all it will be in spite of and not because of him.

These conditions exist, in a greater or less degree, on the farm and the farmer who has trouble in getting help or in retaining it may possibly have himself to blame. One dairy farmer in this vicinity has retained his men for periods of five to seven years while his neighbor, engaged in the same business, needs new men each season. This is not due to luck. It is in the farmers themselves.

If you plow corn all day on July 4 you may call it industry but if you make your boy do the same thing you may call it bad judgment.

Being chauffeur on a manure spreader may enable you to become one on an automobile.

ABOUT OUR EXPORTS.

For the first time in very many years our national exports of agricultural products have fallen off until, at one time, the balance of trade seemed to be actually against us.

This condition has been explained in various ways but most generally by the great increase in our population and especially the increase of city population as compared with that of rural communities.

This may be the true explanation, at least it may be a sufficient one but does it not suggest a real benefit instead of a calamity, as our political writers would have us believe.

Is the country better off when it is shipping out large quantities of farm produce than when all this is consumed at home? Men must live and they must have farm crops. If these can not be supplied at home they must be secured where there is a surplus. This brings the nations into competition with each other but the products they ship must be those which are cheaply produced at home or for which there is no market. This means the production of such crops on cheap land and under cheap labor conditions.

On the other hand, those nations which consume the cruder farm products at home and ship out only the manufactured articles like butter, cheese and cured meats, are those which prosper.

Experts tell us that every bushel of wheat sold off the farm carries with it 27 cents worth of phosphorous, every bushel of corn 13 cents worth and every pound of cotton, 3 cents worth. These figures represent the profits made by the farmer but who pays these profits? Does he not dig them out of his own farm?

Even young states like Kansas are only producing about half the yield per acre that they did in their younger days and when they double their age what will the harvest be if present practices are continued?

Crops fed on the farm have the double advantage of having a sure and steady market at all times and of enriching the farm so that its yield does not decrease. Fifty years of wheat growing in Kansas with the removal of 27 cents of phosphorous from the soil with every bushel shipped out has piled up a pretty big account which is now pressing for settlement.

THE AGRICULTURAL COLLEGE.

The 48th annual catalogue of the Kansas State Agricultural College is a volume of 335 pages. It contains a fund of general information about the college and should have a place in the library of every farmer in the state.

The really big things about this big farmers' school are not to be found within the covers of its catalogue nor in the enrollment of 2,407 students during the year just closed.

These show in the quality of the work done and in the fact that a larger per cent of the students than ever before are leaving the college halls for work on the farm. This is a great fact and stands out as one of the most prominent in the history of the college.

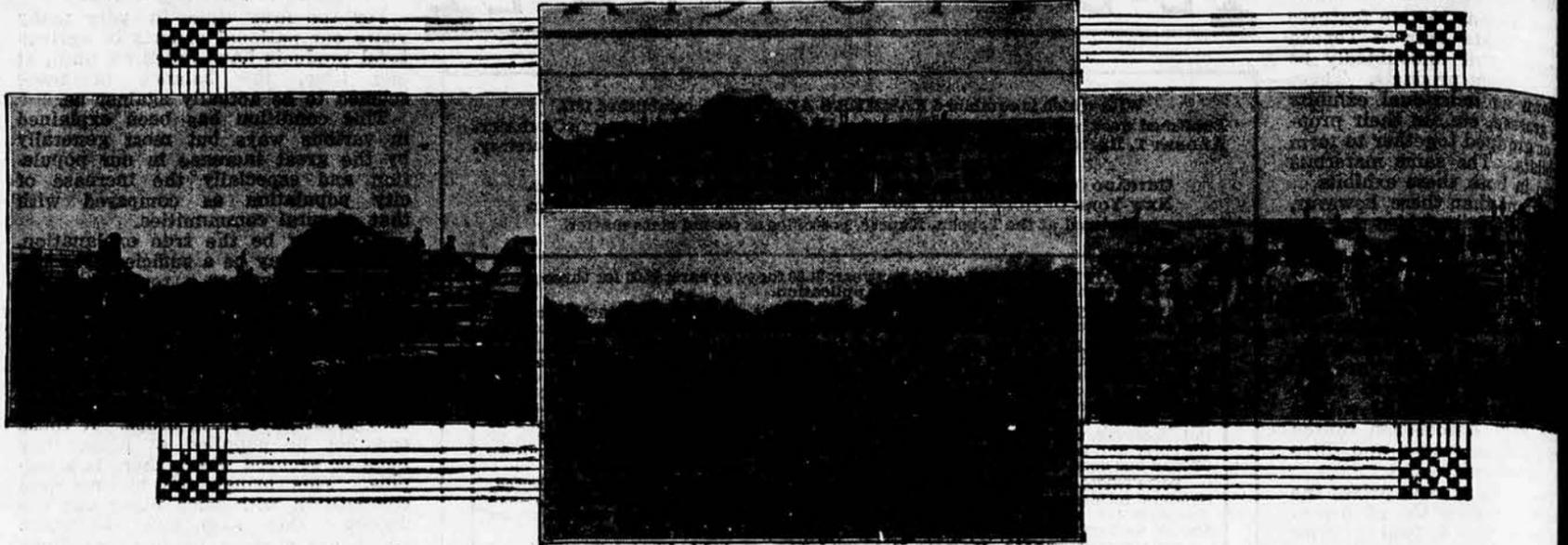
The opportunity of today lies on the farm, but he who would grasp it must be trained for his work. All that a man or woman is and all that he can become will make him none too great for a career in agriculture.

As conditions now are in America and as they are likely to become, there is no profession that offers so much in the way of financial success and self-development as does agriculture, but this will not come for the asking. A training is necessary.

More fertile fields, better seed, pure bred stock and consequent prosperity and even wealth are possibilities that are generally admitted to be desirable and are much sought after, yet not always found. One reason for this lies in the fact that the farmer, with all his planning, makes no plans for his own growth. As the man grows so do his fields, his stock and his bank account. Self culture should come first and other things will be added.

I am 81 years old but cannot get along without KANSAS FARMER. I will send renewal soon and also a new subscriber.—Dr. C. H. Strong, Girard, Kan.

WHEAT GROWING IN KANSAS



Storing Moisture for Wheat.

Nine-tenths of the western wheat fields are not prepared in such a manner as to absorb the greater portion of the rainfall. Year after year wheat is put into ground that is not even plowed. I know of fields that have not been plowed since the original prairie was broken, the land being merely disked each year. And most of the fields that are plowed are plowed so shallow that only a very limited amount of rainfall can become available to the plants. Plowing six inches deep forms a reservoir in the soil that holds twice as much as by three-inch plowing.

Deep plowing is essential to good wheat yields. For this purpose I have seen nothing better than the Spalding deep tilling plow, constructed to plow a furrow anywhere from 12 to 24 inches deep. I have seen this plow go to a depth of 14 inches drawn by four good horses. Probably once in four or five years is ample for such deep plowing. The soil ought to be stirred to a depth of about 20 inches at such intervals. This treatment will convert the fields into deep reservoirs with the capacity to hold the water from heavy rains. Under average conditions this system will enable the storage of enough moisture to carry the wheat through any season of drouth.

Another important feature about plowing is that it should be done immediately after harvest and the ground should be harrowed immediately after being plowed—the same day. If the soil is dry or the ground littered with trash, the soil should be worked with a sub-surface packer, running lengthwise of the furrow. This results in compressing the earth around the trash, driving out surplus air, re-establishing connection between blowed and unplowed soil and promoting a firm, mellow bed.

A deep, mellow seed bed, with loose surface soil, is needed for heat, but it must be firm. An open seed bed, such as follows from late deep plowing, usually contains so much air that many of the roots growing in it are killed. The surface soil should be loose to a depth of two or three inches. Such a surface forms an earth mulch that retains the moisture just below the loose portion of the soil. The seed should be planted just as the top of the firm portion of the seed bed, where the greatest quantity of moisture will be available and growing conditions are best.

The use of manure by western wheat growers is unusual, while the eastern farmer saves and uses every pound of it that he can collect. From 25 years of experience in the wheat belt it is my judgment that the manure is worth to the western wheat grower at least double what it is worth to the eastern farmer. Manure after it becomes a part of the soil increases the water holding capacity of the soil and the dryer the season the stronger is this tendency. Wheat growers should go into dairying and the growing of cattle and hogs in order to get an abundant supply of manure. It is good for its fertilizing value alone, but needed more especially because of its moisture holding properties.

Better Seed and Better Methods Are Needed For This Standard Crop.

Do not plow manure under on our best wheat lands, especially in a dry time. Apply manure as a top dressing on wheat, putting on while the ground is frozen. Spread it at the rate of 10 to 20 loads per acre. This dressing will act as a mulch to retain the moisture and will reduce the effects of the spring winds.

Most of the manure will be worked into the surface soil by the spring harrowing, and when the land is again plowed the manure will be so thoroughly mixed with the soil as to become a part of it.—By Prof. H. M. Cottrell for KANSAS FARMER.

The Bread.

The ultimate end of wheat is a loaf of bread. The wheat grower should keep informed of the loaf yield of different varieties of wheat and of the effect of different treatments on wheat so that he will know what wheat to raise and how to treat the wheat while in his hands.

A barrel of flour (196 pounds) made from the best quality of hard wheat, winter or spring, will make 320 one-pound loaves of choice bread.

A barrel of flour from damaged or mongrel wheat will make 260 one-pound loaves.

A barrel of flour from fairly good wheat will make 280 one-pound loaves.

A moderate quantity of yellow berry in hard winter wheat will cut down the yield of bread from a barrel of flour 12 or more one-pound loaves.

A test made at Hutchinson, Kan., showed 324 one-pound loaves to the barrel of flour, made from the best grade of Turkey red hard wheat and 302 one-pound loaves from the average good wheat.

Over half the bread eaten in the United States is made in bakeries and the bakers make large volume the first requisite in buying flour. They test every offering and a showing of an increase of three to four loaves from a barrel of flour determines where they will buy.

The growers of mixed wheat thus have the market from the bakeries entirely closed to them, a loss of half the trade of the bread consumers of the world.

Rotation of Crops and Large Yields.

An example of what rotation will do comes from Longmont, Colo., an irrigated farming district. Years ago when the prairie was first broken the yields of wheat ran 30 to 40 bushels per acre. It was a good wheat country and the farmers put in the crop year after year. The result was a gradual diminishing of the yield until the average went to 12 and 15 bushels and some fields dropped as low as eight bushels. The farmers reached the conclusion that the soil was exhausted and many of them moved out of the district.

Just at that time a factory for the canning of garden peas was estab-

lished in the town of Longmont and a large average of peas was required to keep the factory going. The factory insisted on a rotation, in order to keep up the yield of peas, and many farmers were forced to the system of cropping peas and wheat in alternate years. They have kept this up now for over ten years with splendid results.

An investigation made in the district revealed the astonishing fact that where such rotation was practiced the lowest wheat yield following peas was 61 bushels per acre on 160 acres and the highest 78 bushels on 40 acres.

The Spanish peanut is another legume that is recommended for trial. It will do well in light soils anywhere in the southwest except at the northern edge of Kansas. The crop has yielded large profits as a feed crop in the last three or four years in the Panhandle of Texas and western Oklahoma under very dry conditions.

Summer Fallowing.

I am not an advocate of summer fallowing for wheat except in regions of very scant rainfall. In most years and in most wheat growing sections the rainfall is sufficient to produce a good yield when the ground is properly handled. The man who is thorough enough to conduct a good summer fallow will give his soil proper preparation for annual cropping.

There are exceptional seasons when the rainfall is insufficient to grow a crop of wheat. The land can be thoroughly prepared early and if at seeding time conditions make it inadvisable to sow, seeding can be put off and the land can lie fallow for the season. Land that has become very weedy, seeded with mixed varieties, or where the volunteer crop becomes seriously detrimental, may be summer fallowed to advantage.

In some sections of Utah and the Pacific states, where the average annual rainfall is 10 inches or less, the rainfall of a single year is seldom sufficient to produce even a small yield of wheat. There the farmers sow wheat once in two years, giving the land thorough tillage during the fallow year. This results in a yield of 20 to 40 bushels of wheat in alternate years, making the cash returns in each alternate year much more than twice as great as in many sections of good rainfall, where wheat is sown annually. Alternate cropping and fallowing collects all the moisture that can be saved from two years' rainfall, greatly increasing the available plant food in the soil and doubling the efficiency of this moisture.

While this plan has been frequently advocated for much of the winter and spring wheat territory, including western Kansas, I believe that better results are obtained here by proper handling of the ground under an annual cropping system. I do not believe summer fallowing is necessary in any section where the annual rainfall is above 15 inches.—H. M. C.

Saving Moisture in the Spring.

Harrowing will often save wheat that is in danger of destruction by high winds in the spring. Many that get a good growth in the fall come through the winter in excellent condition are lost by drying in the spring winds for want of treatment. Start the harrow as soon as the ground is dried after the snow has gone out of the surface. Harrowing forms an earth mulch that holds the moisture, fills cracks and keeps the dry air from getting at the roots and usually makes the young plants stool. It is a good plan, under average conditions, to keep the harrow running until the wheat is four to six inches high.

However, harrowing sometimes is the worst thing that can be done in a field. I saw a settler use a harrow when it was pulling out half the plants clear out of the ground. He could not have been getting the field worse treated. The soil was loose and mellow as an ash. What it needed was sub-surface harrowing. Under such conditions the harrow will often put a field in condition for high yields.

It is a good plan, in sections where wheat is likely to be blown or damaged by spring winds, to harrow the field lightly with either straw or manure, when the ground is about half about midwinter. In addition to making a moisture holding mulch the straw and manure becomes what imbedded in the soil, helps lessen the effect of the winds. Straw or manure has been used over the wheat field in winter and is advantageous to use the surface packer early in the spring. The packer will anchor the coarse manure so that it will not blow and will hold the wheat and the soil. In the spring the packed field will be harrowed to advantage.

Moisture.

The controlling factor in the production of wheat is moisture. In western Kansas and the plains country general produces the best hard wheat, because the rainfall in the region is limited. The soil is low in mineral matter, producing wheat that ripens quickly and makes a fine flour.

In Minnesota and the Dakotas similar conditions as to moisture and shorter summer produce the best spring wheats used in making flour famous the world over for their loaf yield and well flavored bread. The best hard wheat is produced with a limited rainfall, but the seasons when the supply of moisture is too short.

If either the hard winter or spring wheat belt experienced a season of heavy rainfall for a single season the character of the wheat would change. It would gain in starch and lose in ten content. Occasionally the spring season in the hard wheat belt which the rainfall is far above normal, while the wheat is filling, results in slow ripening. This produces "yellow berry"—a starchy, low kernel that reduces the bread producing qualities at the rate of one more one-pound loaves to the

PREPARATION OF SEED BEDS

Poor Seed Will Do Its Best While Good Excels On Good Seed Beds

By L. E. CALL, K. S. A. C.

Good seed bed is the paramount in successful wheat growing. A good seed bed other conditions such as good seed, are of but consequence. Good seed sown on a poor seed bed will not produce a maximum crop. Favorable conditions while tending to in a measure the detrimental of a poor seed bed will not overcome them. With favorable weather we may produce a fair of wheat on a poorly prepared bed, but we will not produce the maximum yields. With unfavorable conditions it is only upon the prepared seed bed that profitable can be grown. The ability of to withstand adverse weather conditions when sown on a well prepared seed bed was well shown in sections of the state this season. It was not uncommon to see adjacent fields of wheat that would fifteen bushels per acre in yield. The difference was due to the way in the soil had been prepared, and presented the difference between good and poor preparation.

Good seed bed for wheat usually is from considerable tillage. We learn from experience that the ideal seed bed is a firm, well compacted with two or three inches of earth surface sufficiently fine to well

preparation of the seed bed results from the conservation of moisture. When moisture is more plentiful the greatest benefit is due to the preparation of plant food, especially the plant food nitrogen. The plant is dependent upon nitrogen for its growth. An abundance of nitrogen always produces a deep green color and a rank growth of the plant. A lack of nitrogen results in a plant of stunted growth and yellow color. Plants use nitrogen in the form of nitrates. Nitrates are formed in the soil as the result of bacterial action. The bacteria that form nitrates work only when the soil is well aired. Thus the better the soil is aired the better bacteria work and the more nitrates are formed. It is evident, therefore, that the greatest development of nitrates takes place in soils plowed the earliest and given the most frequent cultivation through the summer. Thus the greatest accumulation of moisture, the greatest development of

state of fertility. Plowing was done at three different dates, July 15, August 15 and September 15. The earliest plowing did not give the highest yield, although it produced the rank growth of straw. The reduced yield was the result of the wheat's lodging. This being an old alfalfa field the soil was well supplied with organic matter rich in nitrogen. The early plowing and the frequent cultivation through the summer probably produced nitrates in such large amounts that a rank growth of weak straw resulted. Upon soils lower in fertility or in seasons less favorable for wheat this condition would not have occurred.

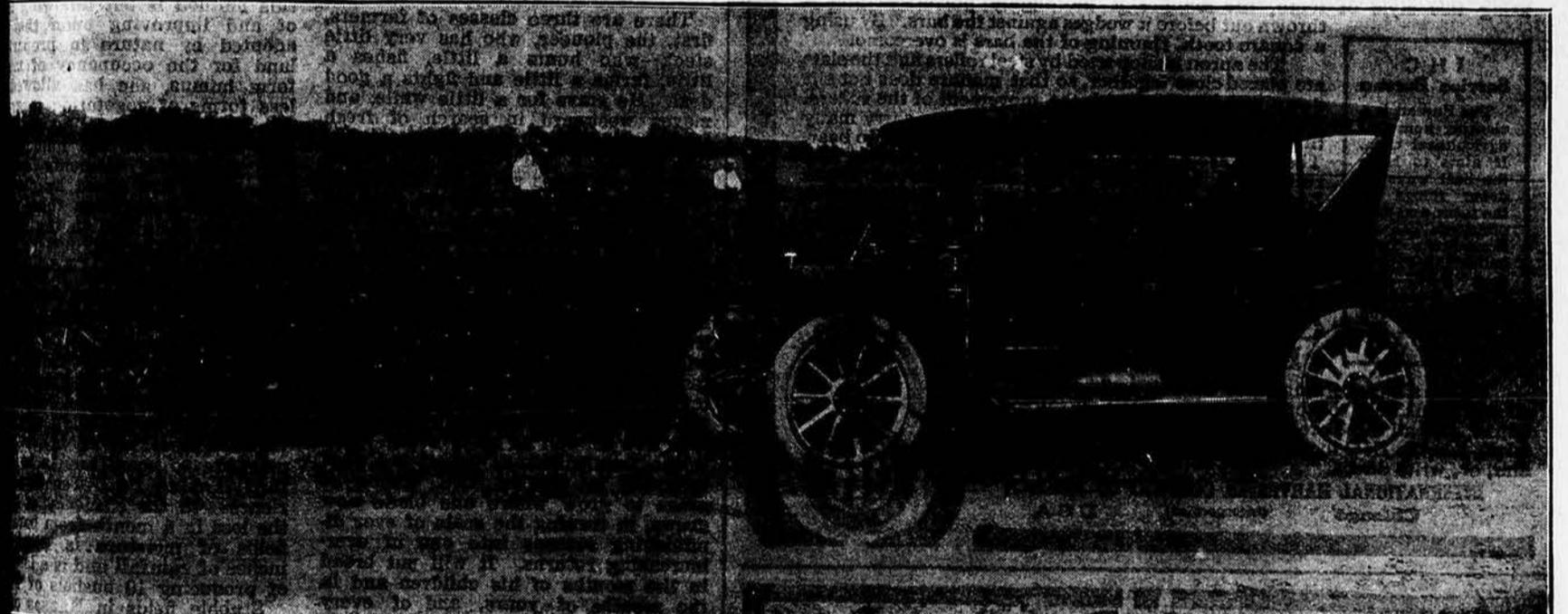
The August 15 plowing gave the highest yields. The soil at the time of plowing was in excellent condition. An ideal seed bed was prepared. Had the summer been dry so that the plowing would have been difficult at this time and the ground plowed up hard and plump this date of plowing

With deep late plowing it is impossible to prepare a sufficiently firm seed bed. Thus, plowing done shortly before seeding should not be deep. Double disking the ground early to be plowed later also increased the yield. This is an excellent practice but the plowing should be done within a month after disking. If postponed later than this the increased growth of weeds on the disked ground leaves the soil nearly if not quite as dry as though it had not been disked.

Listing did not prove an especially successful method of preparing a seed bed, neither has it proved an especially cheap method at this station. The heavy summer rains during this season required frequent disking on the listed plots to keep down the weeds. Farther west, where summer rains are not so heavy, listing would prove a cheaper and a more successful method. The advantage in listing when large areas of wheat are sown results from the rapidity with which the ground can be worked by this method, thus enabling the ground to be worked while it is in good condition.

Whatever method of preparing a seed bed for wheat is employed a few simple rules should be followed:

First. Stir the ground as early in the summer as possible to hold mois-



FIELD OF PURE KHARKOV WHEAT GROWN BY GEO. T. FIELDING & SON, SEEDSMEN, MANHATTAN, KAN., IN 1911 FROM WHICH TO SELECT SEED FOR THEIR CUSTOMERS. AS A RULE HOME-GROWN SEED IS PREFERABLE FOR ANY KANSAS CROP AND THIS ENTERPRISING FIRM GROWS ALL ITS OWN SEEDS FROM PEDIGREED STOCK. KHARKOV IS ONE OF THE BEST OF ALL THE RED WINTER WHEATS FOR KANSAS CONDITIONS AND THE SEED SELECTED FROM FIELDS SUCH AS THIS ONE WILL BE ALREADY ACCLIMATED.

the seed. In addition to this an seed bed should contain sufficient moisture and available plant to give the crop a good start in all. Too much can not be said of the advantages of leaving seed bed firm. This is absolutely necessary if the subsoil moisture is utilized by the young wheat plant. In loose, poorly packed soil there is poor connection between the particles that moisture can not be held by capillary attraction from subsoil. Thus a soil may be well with subsoil moisture and wheat fail to germinate because of the loose condition of the soil prevents the rise of the soil.

A firm seed bed may be prepared with implements that pack the soil like the subsoil packer but the condition results from packing and frequent shallow tillage with implements as the disk and common harrow. If we depend upon rains to firm the soil considerable time must be allowed after plowing for the ground to settle before sowing the wheat. Therefore the seed bed should be plowed early.

One of the advantages that result from early plowing. Moisture is conserved and plant food is preserved in this way. The conservation of moisture results from the killing of weeds and the loosening of the soil puts the ground into condition to absorb the water that falls as rain. The drier portions of the state derive the greatest benefit from early

plant food and the firmest seed bed results from the earliest plowing. In the majority of cases it is the earliest plowing that gives the largest yield. There may be exceptions to this on very fertile soils where as a result of extremely early cultivation nitrates are formed in such large amounts that the plant is over-developed and lodges.

Tests of several methods of preparing a seed bed for wheat have been carried on at the Kansas Experiment Station at Manhattan for a number of years. Due to the winter killing of the wheat in 1910 the last comparison of yields was obtained in 1909. The following table shows the results of this season's trial:

would not have been so favorable. Under that condition the earlier plowing would have undoubtedly proved better. The plot plowed August 15 and cultivated after plowing received two harrowings before September 15. Otherwise it was worked in exactly the same manner as the other plot plowed August 15. These two harrowings, one immediately after plowing and the other two weeks later, increased the yield two bushels per acre at an additional expense of fifty cents. The late plowing, September 15, gave the lowest yield of any of the plots. Every effort was taken with this plot to prepare a good seed bed and since the wheat was not seeded until October 9, nearly a

ture and liberate plant food. If the ground can not be plowed or listed before drying out double disk the ground to hold the moisture until it can be plowed.

Second. Follow the plow with a harrow to break up the clods and mellow the soil. This mellow soil acts as a mulch to keep the water from reaching the surface where it would be rapidly evaporated.

Third. Stir the soil with a disk or harrow frequently enough after plowing to prevent the growth of weeds. Weeds cause rapid loss of water. This frequent cultivation will also maintain a soil mulch and at the same time air the soil thus hastening the formation of nitrates.

Fourth. If the plowing must be done late avoid plowing deep. Follow the late plowing with a packer. The too-mellow, loose, deep seed bed is almost wholly dependent upon rains to furnish sufficient moisture to germinate the seed. In such a seed-bed drouth causes a rapid drying out of the loose soil to the depth of plowing and the crop "burns out." There is also greater danger of the crop "freezing out."

METHODS OF PREPARING A SEED BED FOR WHEAT.

Method of Preparation,	Yield per acre, bu.	Cost per acre for prep.	Cost per bu. for prep., cents.	Value of crop at \$1 per bu.	Value of crop less cost of prep.
Double disked July 15, plowed Sept. 15, seven inches deep.....	39.56	5.53	18.1	30.56	25.03
Plowed Sept. 15, seven inches deep.....	27.98	4.66	16.7	27.98	23.32
Plowed Sept. 15, three inches deep.....	36.76	4.66	15.7	36.76	28.10
Plowed July 15, seven inches deep.....	40.12	4.53	11.3	40.12	35.59
Plowed Aug. 15, seven inches deep. Not worked until Sept. 15.....	38.12	4.03	10.6	38.12	34.09
Listed July 15, seven inches deep, ridges harrowed down.....	32.11	4.40	12.6	32.17	27.77
Listed July 15, ridges split Aug. 15, harrowed down.....	31.33	4.65	14.8	31.33	26.68*

The field upon which this experiment was conducted is upland soil upon which alfalfa had been grown. The alfalfa was broken in the fall of 1904; corn and wheat have been grown since. The field was in a high month intervened in which to fit this plot for seeding. Comparing the deep and shallow late plowing it will be seen that the shallow plowing gave an increase of nearly three bushels more to the acre over deep plowing.

As long as men live and work, so long will wheat be a necessary article of food. In Kansas and other states with similar climatic conditions, wheat will always be a staple crop and ways and means by which it can be made a profitable one under all conditions of weather are worthy of study.

Quit Doing This → Get a GOOD Spreader



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

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

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

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

I H C Manure Spreaders

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

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

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

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

Cloverleaf Corn King Kemp 20th Century

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

INTERNATIONAL HARVESTER COMPANY OF AMERICA
Chicago (Incorporated) USA

I H C Service Bureau

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



THE FARM



About Hay.

The first crop of alfalfa was a little short, but of extra fine quality and free from weeds. The dry weather has had a tendency to shorten the hay crop but every effort should be made to save it as grasses or clovers grown under these conditions is much richer in protein than that of a wet season and its feeding value is higher.

Practically all the hay that was grown was secured in good shape and free from damage by rain and there will undoubtedly be an abundance of late hay and roughage after the rains come again. The wise farmer is he who has out a "sheet anchor" in the shape of a field of Kafir, milo or millet and thus insures himself against danger of shortage.

Spanish peanuts seem to have met with great favor in some of the dryer regions as they grow without much moisture and furnish an excellent quality of hay while the nuts are great pork producers and can be harvested by the hogs themselves.

Three Kinds of Farmers.

There are three classes of farmers, first, the pioneer, who has very little stock—who hunts a little, fishes a little, farms a little and fights a good deal. He stays for a little while, and moves westward in search of fresh adventures. Then comes the speculative farmer, a soil robber, who farms about three times as much land as he ought to, skims off the cream, gets the benefit of the unearned increment and moves on. Then comes the man we will call the "real farmer," who comes to stay, to build schoolhouses, churches, and a home for himself and family, where he and his children will live for generations. He is the man who is interested in the permanent fertility of the soil. It is for his interest to put back as much as he takes away, in order that his children may live as well as he is living. This is the man in whose behalf we want to assist in making two blades of grass to grow where one blade now grows, in turning the scale of ever diminishing returns into one of ever-increasing returns. It will put bread in the mouths of his children and in the mouths of yours, and of every man, woman and child who dwells in our fair country now or will dwell here in the future.—E. L. Burke, Genoa, Neb.

About Those Sorghums.

About ten years ago we raised milo maize, Jerusalem corn, brown dura, Kafir corn and cane but we finally got down to only Kafir and cane. However, in western Kansas and in the Panhandle country of Texas where the seasons are shorter they raise milo and millet in large quantities. They have a smaller variety of milo which matures in short seasons and which they claim is superior to our Kafir and cane for hay and for cattle feed.—J. W. Kraft, Salina, Kan.

Mr. Kraft is a farmer of considerable experience in central Kansas and what he here states may be taken as representing the facts not only for his locality but for that entire section of the state.

Milo is recognized as one of the heaviest producers of the grain sorghums but its "goose neck" stems makes it hard to harvest and, as the Kafir is a splendid yielder in this section and further east, it has gradually taken the place of the others. Dwarf milo is now grown without the "goose neck" and can be handled by the harvester and, as it matures so early, it finds great and growing favor in the extreme western counties of Kansas where it can be planted as late as June 30.

The Value of Green Manures.

The plowing under of a luxuriant green crop of alfalfa, clover, field peas or vetches, which might be harvested and sold, or used as feed, seems "against nature." Perhaps it is for this reason that it is comparatively little practiced. Nevertheless a great

er gain may often come from under than from harvesting.

Dr. Cyril G. Hopkins, of the Station, in comparing green manure with farm manures, makes the following significant statement: "As a rule, animals digest and destroy two-thirds of the dry matter of the food they eat, so that one clover hay plowed under will produce much humus to the soil as the same made from three tons of clover off and fed, even if all the manure returned to the land without fermentation."

Professor Marshall, of the College of Agricultural College, says of the addition of green manure to the soil that it

1. Increases its fertility by a large amount of organic matter it acquires.
2. Increases its water holding capacity.
3. Utilizes soluble plant food which would otherwise escape from the soil to the surface soil.
4. Brings plant food from the soil to the surface soil.

So far from being "against nature" this method is but following the method adopted by nature in preparing the soil for the occupancy of man. As a form of humus, she has allowed less forms of vegetation to grow and decay unused; and in the half or more of the humus and fertilizing elements have been lost, which are saved by plowing under at the time when those elements are most abundant in the plant. R. Barns, Minnesota.

Stop the Evaporation After Harvest.

Loss of moisture from stubble left bare after harvest is equal to five inches of rainfall as there is moisture left to evaporate. Plowed ground left loose, neither rowed nor packed, will, in hot weather, lose in 24 hours as much moisture to equal one inch of rainfall. Taking Prof. Ten Eyck's figures in the efficiency of the loss in a month from bare fields of moisture is equal to five inches of rainfall and is a loss of producing 10 bushels of wheat.

Stubble fields in Kansas are bare two or three months after harvest, many growers thus lose a season sufficient moisture to their yield of wheat.

Following the binder with a harrow, driving close to the stubble, the space between the machine and the last row of bundles, produces a mulch that checks evaporation. Immediately after the grain is cut there is no loss of moisture at all. A short of teams can wait until the grain is cut and then can be ground around the shocks, or stubble following the header, not only stops evaporation, but the ground in fine condition is ready for plowing later on.

Moisture goes rapidly out of plowed ground, left loose. Attachments are made for the harrow which pulverize the furrow as it is made, creating a mulch on the freshly plowed surface that checks much of the evaporation. Some farmers take one section of a harrow and an extra horse to the plow to let him draw the harrow behind the plow. This is a fresh turned furrows. This is a economical method and the harrowed two to four times before noon and then harrowed following the same plan in the afternoon, so that each half day's work is harrowed immediately after plowing.

It is absolutely necessary to have an earth mulch over the soil to maintain it. No wheat grower can afford to lose each month's work enough to make 10 bushels of wheat.

The automobile's most important work is in saving the wear on horses' necks.

85¢
Per Gallon
in
5 Gal. Cans
Freight
Prepaid

Endurance Red Barn Paint

Save money on your painting, and get better paint. Our Endurance Red Barn Paint No. 52, at 85¢ a gallon, freight prepaid in 5-gallon cans, gives you utmost paint value. Absolutely guaranteed for spreading and lasting qualities—is a strong, live, bright, rich red. You can't buy a better paint even at \$2 a gallon. Our price saves you all dealers' profits, traveling men's salaries and expenses, etc. You save all that for your pocket. It will do you more good there than it would in the pockets of others. Make no mistake. We guarantee every gallon. We are a responsible firm, are

NOT IN THE PAINT TRUST

We sell direct to the consumer only

We make our own paint and we make our own prices. Our customers know the meaning of that. Mr. R. W. Ramsey, Redfield, Kansas, recently wrote us:—"In May, 1910 I painted my large barn with your Red Barn Paint. A heavy rain storm followed the night we finished painting, but the paint showed no injury. Then it passed through the extreme hot weather of last summer, and again through heavy, blowing rains and storms of the summer and fall, and then passed through the cold weather of this last winter. It has not been affected in the least by the elements, and remains bright, and compact." We can furnish testimonials by the hundreds like this from nine western states. 1 gallon will cover 600 to 800 square feet, two coats. This is paint season. Don't delay. Send order now to—

Sunflower Paint & Varnish Co., Ft. Scott, Kan.

**From
Factory
to
Barn**

Do Your Part TOWARD MAKING GOOD ROADS

THERE ought to be a hundred thousand Globe Adjustable Farm and Road Drags at work on the dirt roads of the country after every rain. One trip up and down the road alongside your farm with a Globe is worth half a dozen the old way. Get ready. Do your part and neighbors will follow your example. You'll soon have tiptop roads. The Globe is all steel, unbreakable, practically no wear-out to it. Adjusts so as to grade or smooth and to do anything you want. Just by changing hitch from one link to another in chain, you can crown the road, lower it, level, fill ruts and chuck holes, cut down hummocks. Great machine for shaving off small brush and for breaking down corn stalks. Also fine path and road maker in snow. Weight 225 lbs. Write for free booklet and let us tell you more about it. Address

GLOBE MACHINERY CO.
Box 111, Des Moines, Iowa



The Buffalo PITTS Gasoline Tractor Does the Work of Thirty Horses.

Farmer: Mr. Ranchman:—Just figure it costs you to cultivate your land. Figure the cost of labor, of food for the horses or of time wasted, of money and trouble. Let us show you how much cheaper you can do it with a Buffalo Pitts Triplex Gasoline Tractor. Let us show you some of the reports of enthusiastic owners who are doing their plowing, harrowing, drilling, seeding, harvest and hauling at cost per acre that will make you sit up and take notice.

Read What Gregory of South Dakota Did

He says:—“I’ve been using a Buffalo Pitts Gasoline Tractor for plowing for the past two weeks and pulling 12–14 inch Stubble plows at a speed of two miles an hour—plowing 7 inches deep, consuming two gallons of gasoline per acre. We plow 85 acres per day and would use 28 horses to do the same work. I believe it is the most powerful and durable Gas Tractor on the market.”
WALLIS GREGORY, Brantford, S. D.

Let us show you in facts and figures just what it costs users of Buffalo Pitts Gasoline Tractors to seed, plow harvest and haul. We'll let them tell you in their own letters how they save in labor in time hundreds and thousands of dollars that they put into the bank. Get this book at once—just send the coupon.

SEND FOR THE BIG FREE TRACTOR BOOK

Coupon
 BUFFALO PITTS COMPANY Dept. 20
 Buffalo, N. Y.
 Kindly send me at once your big Gasoline Tractor Book with letters from farmers and ranchmen who have saved big money with them.
 NAME _____
 ADDRESS _____

BUFFALO PITTS COMPANY
 Buffalo, New York

UPPER GALVANIZED WINDMILLS And Towers are Warranted

Write for our new and attractive catalogue describing the best, strongest and most durable on earth, at an honest price, save you money on the original will never need repairs. Guaranteed to do more and better work than any mill made. You get an additional saving in price, as WE PAY THE FREIGHT. Send a postal today for our introductory price and catalogue. Towers, Tanks, Pumps, Pipe, etc. Its Free. Dealers should represent territory not represented. Sent everywhere.

CLIPPER WINDMILL AND TOWER CO., Topeka, Kansas

COMBINATION GRAIN BIN

Galvanized, corrugated, shipped down in sections, additional added any time to increase capacity. Large door and ventilator. Saves insurance, hauling and harvest time. Grain perfectly and may be used for machinery, etc., when not for grain. Free booklet tells of uses of satisfied users.
BUTLER MFG. CO.
 Kansas City, Mo.
 W. 10th St.

AGENTS FOR UNCLE REMUS'S HOME

Agents who will solicit subscriptions for Uncle Remus's Home Magazine. All or spare time. Men are making \$30.00 Every Week. You can make several dollars by working spare time. Write for Full Particulars. Samples Free.
Remus's Home Magazine,
 Atlanta, Ga.

FLY KILLER

Placed anywhere, at traps and kills all flies. Neat, clean, ornamental, convenient, cheap. Lasts all season. Can't spill or tip over, will not soil or injure anything. Guaranteed effective. Of all dealers of sent prepaid for 20c.
HAROLD HOMERS
 150 De Kalb Ave.
 Brooklyn, N. Y.

M. PENWELL
 General Director and Embalmer
 QUINCY ST., TOPEKA, KAN.

Peanuts as a Farm Crop.

I am interested in the raising of peanuts in a country that is sometimes subject to drouth and would like to have you kindly give me some more information in regard to their culture. Among other questions I should like to ask what variety should be planted for hogs? What is the average market price per bushel? Would it be advisable to plant them in a broad, shallow listed furrow or should they be planted on the surface? Can the hogs be turned in to harvest the crop? When the crop is saved otherwise how is it harvested?—John A. Garey, Downs, Kan.

Spanish peanuts seem to be the best adapted to Kansas conditions of any known variety. Prof. H. M. Cottrell, who has had large experience and excellent opportunities for gathering information, states that they are fully as good as alfalfa for enriching the soil; that peanut hay is selling only 50 cents per ton lower than alfalfa hay and that, for the western farmer in particular, Spanish peanuts is one of the most profitable crops. The large popped peanut such as is ordinarily sold for human consumption, is the Virginia, which requires a long growing season and rich soil. The Tennessee Red is recommended for late fall and winter pasturing but does not do well in dry seasons nor do the Mammoth or Jumbo sorts.

The Spanish variety has a small nut with two kernels, an upright habit of growth which makes it easy to harvest for hay and is splendidly fitted for cropping in the dryer regions or as a second crop in the more humid sections of the state.

Before planting the peanuts should be soaked in water for at least 24 hours and then planted without being shelled in rows like corn and one nut to each twelve or fourteen inches in the row. Surface planting is generally practiced though success may be attained with the lister.

In harvesting, the hay should be cut and cured like alfalfa and before frost, and then turn the hogs in and let them take care of the nuts. Professor Cottrell reports that in Arkansas the gains made by hogs fed in this way equalled those made from feeding 85 bushels of corn per acre. In Louisiana hogs pastured on ripe peanuts gained 850 pounds per acre while in the Panhandle of Texas in 1910, which was the dryest year since that country was settled, a stockman pastured a large acreage of ripe peanuts with hogs which gained 1,023 pounds per acre. If the nuts are desired for market or to be fed as a grain ration they may be harvested with a regular potato digger though care must be exercised in selecting that time when the greatest number of the nuts are ripe.

It is stated that about fifty bushels of nuts and one ton of hay per acre is about a fair yield and that the nuts would perhaps average about 35 cents per bushel and the hay about \$10 a ton. This would show a gross return of about \$47.50 per acre or, allowing \$18 for the cost of seed, cultivation and marketing, a net return of about \$29.50 per acre.

Because of its drouth resisting qualities and its productiveness Professor Cottrell regards the Spanish peanut as one of the best of all dry farming or dry season crops.

OHIO Ensilage Cutter

Write for FREE Catalog.

Saves on Power and Man

There are reasons of good sound merit for the undisputed supremacy of the Ohio Ensilage Cutter. It is the pioneer machine used by thousands of farmers in every part of the world. Don't buy a machine without a reputation. Investigate thoroughly. Get the best (Ohio) in the beginning and you will have no regrets in the future. The Ohio is never idle—works any time and all times—sets a lively pace for your men to keep it supplied.

The Ohio Cutter has the greatest capacity. It cuts clean instead of tearing. Guaranteed to perform its work satisfactorily.

The Blower Fans on Ohio Cutters are mounted on same shaft as the knives. This prevents waste of power and insures that the ensilage will be blown to the top of the silo no matter how high it is. Can be used for cutting ensilage or alfalfa.

The Ohio Cutter can not clog at the speed of 650 to 700 revolutions per minute. It throws out the ensilage as quickly as it is cut. Impossible to feed too fast. That is why it is used by the leading agricultural experiment stations of the world.

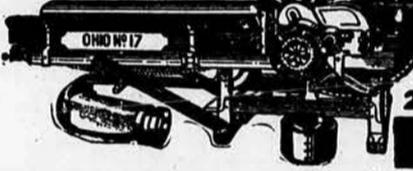
OHIO CUTTER—Free Trial

First of all the Ohio is guaranteed—not only that it's built right—of best possible material, but that it will do its work. It's an honest guarantee on an honest cutter. Send for an Ohio Blower Cutter. Try it, set it to work and if it don't do all we claim of it, ship it back at our expense. That's fair to you, it's fair to us, because we know the Ohio.

Write for Catalog and Special Proposition

We can save you money on an Ensilage Cutter this year. Our special proposition means money in your pocket. Without obligating yourself to buy, write for free catalog and further particulars.

H. C. Hargrove
 221 Walnut St., Des Moines, Iowa.



You can't get your back up with that HAWK SAFETY HARNESS



The above illustration shows the new member of the J-Hawk family—a Safety Harness that is real Safety from kicking, bucking, hump-up horses—especially fine for use on the “colt” and that spirited driver. A combination of the “hip” breeching and “butt” breeching which adds great comfort to the horse. Shaft straps removable.

Only to be had on Harness bearing this Celebrated Trade Mark. Manufactured Exclusively by
ATCHISON SADDLERY CO., Atchison, Kansas

Your Dealer Has it or will Get it for you

WITTE ENGINES

Gas—Gasoline—Distillate
 Cheapest and best power known. Average cost one cent per horse power per hour. A superior standard of construction saves time, fuel and repairs. We refer you to thousands of satisfied customers. High grade engines our specialty for 25 years.
 This engine is built for those who want the best. We furnish any size or style; hopper jacket or water tank type. We ship promptly. Everything is complete. Our prices are right. Inducements to introduce in new localities. Write for catalog, stating size wanted.
WITTE IRON WORKS CO.
 1627 Oakland Ave., Kansas City, Mo.



GALVANIZED ROOFING

Corrugated and standing seam, nothing as good for farm building, will last twice as long as shingles. Anyone can put it on. We can furnish sheets 4, 5, 6, 7, 8, 9, 10 and 12 feet in length. We cut hips and gables with no extra charge. We also make barn ventilators and water tanks. Send for free catalogue prices and samples.

Walker Sheet Metal Co
 Council Bluffs, Ia.

DAIRY



The man with the silo is the man who has the advantage at this time of year when the dry spell strikes. Milk flow that is once decreased by dried up pastures can never be restored until the next freshening. Don't let the milk flow decrease.

The amount of milk produced by a cow will depend upon the amount of water she drinks. Not entirely, of course, but it stands to reason that the cow cannot give milk unless she has plenty of water to drink. Now, if this water is warm, like that standing in a pond or a water trough, she will not like it so well and will not drink enough of it. As a consequence her milk flow will fall away. Fresh, cool water is necessary for the milk cow, and it costs money not to provide her with it.

Cows that are bred to freshen in October or November can be turned dry during the hottest part of the summer and thus save their owners the work of caring for them during the worst of fly time. Another advantage lies in the fact that they will yield the heaviest production when prices are best and still another is that their calves will be ready to go upon spring grass.

During the hot, dry weather the cows are often compelled to feed on weeds, tree leaves or clovers the nature of which has been modified by the drouth. Such feeds often give a taint or flavor to the milk which, while not harmful, is distasteful to some people and is hard to get rid of. Of course the best way to avoid such flavors is to avoid the cause, but where this cannot be done, they may be largely gotten rid of by heating the milk and then suddenly cooling it. The bitter taste in milk or cream often comes from improperly cared for vessels and the work of the bacteria which they contain.

Filling the Silo.

The important thing in this is to exclude the air by close packing. Whether the silage be delivered by carrier or blower, it is very necessary that one or two good men remain in the silo to pack the ensilage thoroughly. If air get in, the ensilage spoils. The heating of the ensilage is due to bacteria, which multiply at 140 to 160 degrees. After a time a slower fermentation process succeeds and acetic acid is formed, which gives a relish to the feed. To facilitate these processes, a fair amount of moisture is needed, so, of the corn is at all dry it is well to turn a stream of water into the silo as it is being packed. If the ensilage is frozen no material harm is done.—Geo. P. Grout.

Prof. Eckles of the Missouri station conducted a very interesting ex-

periment to determine some questions about milk production. He states that "at one time we fattened a Jersey cow while dry until she carried perhaps 150 pounds of surplus fat at calving time. After the birth of the calf this cow was put on a ration estimated to be sufficient to barely maintain her body, giving nothing for producing milk. She was kept on this ration for 30 days; she was compelled either to stop producing milk or to take the material from her body for this purpose. The surprising part of it was that at the end of 30 days she was producing only one pound of milk a day less than at the beginning. She lost 120 pounds in live weight during this time, and at the end of 30 days had become so weak that she could scarcely get up without assistance. This shows in a striking way how strong the stimulation is to produce milk, and shows that for a limited time the production of milk is not directly dependent upon the food given."

TEN WEEKS FOR TEN CENTS.

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

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

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

Address Subscription Department KANSAS FARMER, Topeka, Kan.

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

The KANSAS FARMER model farm competition is proving very popular and the letters and drawings are coming in daily. The prizes offered are well worth working for and the fact that your plans for a model farm will be placed on exhibition, together with the self cultivation you get in preparing them, will be still more valuable. Young folks are especially invited to participate in this contest.



Your Kind of Fruit Jar

is the Atlas E-Z Seal, because a touch of your finger locks it so tightly that all air must stay out. That keeps your fruit and vegetables as fresh and flavory as when first picked. They can't "work." They can't spoil. E-Z Seal Jars never stick. They open in a jiffy by a light pressure of the fingers. No twisting—no trouble—no regrets. See the generous wide mouth of the



—big enough to take fruit whole, and you can preserve green corn on the cob, asparagus uncut—and tomatoes with all their juices. Atlas E-Z Seal Jars are the jars without a fault. Put this year's preserves into them and you'll wonder why someone didn't make them years ago. At all general stores.

Write now for our booklet of Famous Preserving Recipes. We'll gladly send it free.

Hazel Atlas Glass Co. Wheeling, W. Va.

Automatic Cream Separator

CRANKLESS AND GEARLESS

Nothing like it has ever before been invented. One size machine for any size dairy. The drudgery of dairying now a thing of the past.

It separates the milk perfectly, faster than ten men can milk it.

Start the separator when the milking begins and, it being both automatic and continuous in its operation, when the farmer is through milking he is through skimming.

Speed of bowl brought up in 15 seconds and will run for hours without the slightest variation or attention.

It is destined to revolutionize the dairy business. Dealers selling the AUTOMATIC find it in a class by itself, which eliminates all competition. Write for Catalog "N" and prices.

"SEE OUR EXHIBIT AT YOUR STATE FAIR."

STANDARD SEPARATOR COMPANY

MORTON DECKER, President.
Sole Manufacturers and Patentees.

MILWAUKEE, WISCONSIN



THE "OLD" WAY



THE "NEW" WAY

BEST RECORD Ever Made by Any Cream Separator Only A SHARPLE Could Do It.

We have repeatedly told you that Sharple Dairy Tubular Cream Separators wear a life. One of our regular hand-driven Dairy Tubular separators of 500 pounds capacity per hour, recently worked equal to 100 years' service in a live cow dairy. Total cost for oil and repairs one dollar and fifteen cents. This Tubular is free for all to inspect who visit the world's greatest separator works. Ask us to mail you the fully illustrated record of this great demonstration of Tubular superiority. See how the parts of this Tubular resisted wear. Tubulars are guaranteed forever by America's oldest separator concern. Tubulars outlast as well as outwear all others. Have twice the skimming force. Skim faster. Skim twice as clean. Dairy Tubulars contain no disks. You will finally have a Tubular. Get the Tubular first. You can try it without paying one cent for freight or anything else. Other separators, exchanged for Tubular simply pouring in. Exchange yours. Write for catalogue No. 165.



THE SHARPLE SEPARATOR WEST CHESTER, PA. Chicago, Ill., San Francisco, Cal., Portland, Toronto, Can., Winnipeg, Can.

DE LAVAL CREAM SEPARATOR

are as much superior to other separators as other separators are gravity setting methods. Why but "half-way" when buying separator? Why not insure satisfaction by getting a DE LAVAL THE DE LAVAL SEPARATOR 165-167 BROADWAY, NEW YORK. 23 E. MADISON, CHICAGO.

The Handy AUTOMATIC HOG WATER

PURE WATER is essential in fattening. Buy an over-ready, never rusting HANDY FOUNTAIN. It will not or rust, attaches easily to tank, barrel or pipe. Is superior to all others in its valve—the most important place. We guarantee satisfaction. Insist on the handy from your dealer.



NOVELTY IRON WORKS, Steelton, Pa.

TOO LATE TO CLASSIFY.

FOR SALE—SIX-WEEKS—C. D. bull, out of daughter of Silver and sired by Coneris Eminent, a Lad bull.

JOHNSON & LINDSTROM, Clay Center, Kan.

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

ELDER'S HIGHLAND PURE. Headed by G. C.'s Col. and Ohio Cows contain the blood of Ohio's Crimson Wonder. Stock always Green. FRANK ELDER, Green, Kan.

STONE'S BIG TYPE POLAND. Headed by Smith's Hadley by Hadley, he by Big Hadley. Sows on ranch, Expansion, etc. breeding established 7 years. Choice spring sale, Sam Stone, Leonardville, Kan.

MADISON CREEK POLAND CHINA. Headed by Big Boned Pete. Mastodon and Wonder breeding raised under natural conditions. ready to ship, all out of mature stock. J. L. GRIFFITHS, Riley, Kan.

ANDERSON'S BIG TYPE POLAND. Headed by Clay Jumbo 6125, one of the best and biggest boars in Kansas equal merit; 70 good spring pigs from. Write quick. J. W. ANDERSON, Leonardville.

The GRANGE

From Valley Grange.

The order of business having been changed at the last meeting in April, the meeting on the 12th was given over to a full program, the main topic being the longed waited for discussion of the money trust—how it affects farmers' interests, led by Messrs. Fields and Cellar. Both gentlemen gave able talks on the subject, and were asked to go to the county grange and give the same addresses there.

The other brothers seemed to be a little shy of the subject, and the sisters were "mum" on the money question for once.

The meeting on the 25th was given over to routine business, and initiation of members. The attendance was unusually good for the busy season. Arrangements are being made for the purchase of supplies of several of the important lines of supplies needed by farmers.

Valley Grange is surely prosperous and happy.

From Marshall County.

On June 2, Worthy State Master Black was called to Marysville to address an assemblage of farmers who wished to know some of the details of the Grange.

The time was a busy season but there was a fair representation of farmers from over the county, and they were all earnest and anxious to organize with some permanent order. Bro. Black had their undivided attention while he explained the objects of our order, the benefits to be derived, some of the reforms brought about by our organization, some of the injurious measures we have helped to defeat, some of the reforms we hope to accomplish and what could be accomplished if the farmers would only get together like other allied industries do. (Query, why is it that the farmer is not organized? We would like to have this answered by some of the representative and successful farmers who do not belong to the Grange)

Coffey County Pomona Grange.

It was decided to have early dinner, so after the song, "The Farmer Feeds Them All," about two hundred hungry grangers and their guests sat down to one of the most bountiful dinners ever given in this county. The tables were handsomely decorated and the service faultless.

Immediately after dinner the literary program was given, which was participated in by members of Oak Grove, Stringtown, Cole Hill, and Avondale granges. The lady vice president of the farmers' institute society, to fill in a missing number, gave a talk on How the Grange can cooperate with the Farmers' Institute, which was full of good suggestions.

At the request of several members our representative in the last legislature gave an able talk on "Organization." It was to be regretted that we had not time for a full discussion of this question.

Then came the business session. Most important was the appointment of a committee, selected from the five granges nearest Burlington, and the County Deputy, to make all the arrangements and to secure a speaker for the summer picnic to be held at Burlington about the middle of July.

Then came the discussion of questions that had been sent to the lecturer for this special meeting.

Ought we to have a separate department of "Woman's Work" in the Grange. Leader not present, and the question was passed.

"How can the farmer hold his own with the middleman? The leader on this topic had gone home, so it was passed.

The money trust—how it affects farmers interests. Led by W. B. Cellar. In the brief time at his disposal he gave a very full summary of some articles that have lately appeared in the magazines showing how nearly all the farmer buys and sells pays toll to the money trust. He followed with a brief enumeration of the articles the housewife uses that this trust taxes.

Seven were given the fifth degree. The next Pomona Grange to be at Sharpe the last Saturday in August.



Are they worth Protecting?

A few dollars invested in the Dodd System will protect your home from lightning. Not for a thousand times the cost would you have the lightning strike one of your loved ones.

Then be wise in time. Make the small investment now that insures safety. You can't doubt the evidence that the

Dodd System of Lightning Protection

does mean safety. The fire insurance companies make it their business to know. They do know. Over 2000 of them endorse the Dodd System. Their resolutions are direct, positive, personal. They endorse the Dodd System of Lightning Protection by name. They mention no other system. The Dodd System is guaranteed. A binding written contract insures your money back or damage made good, if damage ever occurs. You cannot lose a dollar. Act now. Read our great Lightning Book and be convinced. Filled with facts, vivid lightning scenes, explanations, resolutions of endorsement, the whole subject of lightning, its cause, how controlled, etc. A large book, finely illustrated and printed, FREE. Address to-day

DODD & STRUTHERS
423 6th Avenue Des Moines, Iowa

LIGHTNING

MESCO
The Mark That Stands For Comfort and Long Wear.

The mark with a quarter-century of honest dealing behind it. Buy underwear and hosiery with "Mesco" on them, and we guarantee they will be perfect.

MESCO
QUALITY

Underwear

For the men folks, the women folks and the children. Made in every popular fabric, in Summer and Winter weights. Pick up a garment—feel its fine texture—examine the high quality of the goods—see what choice buttons are used—notice the careful finishing. Sold at very low prices for such excellent underwear.

"MESCO" Hosiery
Just the kind to stand hard knocks. A style for every member of the family. Fast black and fancy colors—cotton, lisle, silk, wool.

You ought to be able to buy "Mesco" goods in your town. If you can't, send us your dealer's name, and we'll tell you where you can buy.

M. E. SMITH & CO.
909 Farnam St. Omaha
Established 1888

JAP ROSE SOAP
FOR THE TOILET AND BATH

Ask Your Dealer for

JAP ROSE

The original, cartoned, transparent Toilet and Bath Soap. Lathers freely in all kinds of water. Made from the purest vegetable oils.

Sold by Dealers Everywhere
REFUSE IMITATIONS

Look for the Jap Girl on every package.

A Large Cake 10c **KIRK** Established 1880

STURDY TOOLS FOR TRYING JOBS

Here is a Keen Kutter Fork—a sturdy bit of springy timber, tipped with three properly curved tines of finest steel, tempered like a watch spring. When this fork is sunk into a well settled bunch of long hay, a man's strength is needed at the end of the handle.

KEEN KUTTER Farming Tools

—hoes, forks, rakes, scythes, axes, spading forks, corn knives, shovels, spades, ditch tools, manure hooks, potato hooks and bush hooks—are all remarkable for their working capacity. A brawny man and a Keen Kutter Tool is a combination hard to beat when it comes to actual results in work accomplished.

"The Recollection of Quality Remains Long After the Price is Forgotten."
Trademark Registered —E. C. SIMMONS
If not at your dealer's, write us.
SIMMONS HARDWARE CO., Inc., St. Louis and New York, U.S.A.

You'll Have to HURRY

YOU'VE GOT BUT A SHORT TIME to get that Silo up.

CORN is just jumping now, in 60 or 90 days it will be ready to fill the Silo for next winter's feeding. ARE YOU READY? The Silo has proved the big money maker for Dairymen for years. Silos are thicker all over dairy districts than wind-mills out in Kansas. Deaf feeders and sheep feeders are waking up all over the country—they haven't made enough money. They realize now that the Silo is a real gold mine for them, and an absolute necessity in profitable production.

The World's Best Silo is the Hinge-Door Silo

The Silo not only preserves your green, ripe corn in its original delicious and marvelous feeding value, but turns the whole plant (leaves, stalks and all) into the richest profit-making feeding stuff you have ever known. You feed it alone with alfalfa or other hay, or you can add other corn, cotton seed meal, etc., just as you prefer. Let the winter winds blow and blizzards do their worst. With the feeders under shelter and plenty of good silage you can top markets and break all records you have ever made, and come out with double and three times the clear profit. You've never known what big profits are until you turn your whole corn crop into cash with the Silo.

Use THIS COUPON

GET BUSY FEEDERS

Send immediate proposition for our QUICK DELIVERY PROPOSITION. If you don't get your Silo in a short time you lose a whole year's crop into a feeding fortune. Fill out a mail coupon today to

NEBRASKA SILO CO., Dept. A
LINCOLN, NEBRASKA.
Kansas Branch: Continental Creamery Co. Dept. A., Topeka
Missouri Branch: Bellows Bros., Dept. A., Maryville

Name
State R.F.D.
I feed about head of beef per year and about head of sheep.

\$10.00 Sweep Feed Grinder | **\$14.00 Salvaged Wind Mill**

We manufacture all sizes and styles. It will pay you to investigate. Write for catalog and price list.

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

The CLIPPER

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

CLIPPER LAWN MOWER CO., Dixon, Ill

SCHOOLS AND COLLEGES

HOME CIRCLE

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

Courses of Study

- AGRICULTURE:** Agronomy, Animal Husbandry, Horticulture, Dairy and Poultry Husbandry, Veterinary Science, Forestry.
- MECHANICS:** Mechanical Engineering, Civil Engineering, Electrical Engineering, Printing, Architecture.
- HOUSEHOLD ECONOMICS, INDUSTRIAL JOURNALISM.** Short Courses in Farming, Dairying, Cooking and Sewing.

Send for new catalogue.
Address **PRESIDENT H. J. WATERS, Manhattan, Kan., Box E.**
(Correspondence Courses Offered)

KANSAS WESLEYAN BUSINESS COLLEGE
THE EFFICIENT SCHOOL FOR BANKS AND RAILROADS.

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

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

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

CAMPBELL COLLEGE, HOLTON, KANSAS

"We Offer the Best to be had for the Money Required."
Living Expenses Very Reasonable; Rooms and Board at Private Homes, \$3.50 to \$3.75 per week. Table board at College Dining Hall, \$2.25 per week. Catalog sent on request. Please mention Kansas Farmer when writing.

T. D. Crites, President **W. S. Reese, Dean**

ST. JOSEPH BUSINESS UNIVERSITY

In new home. Fine equipment. Thirty-second year begins September 4th. Business and Stenographic Department, in charge of experienced teachers. Individual instruction. Graduates placed in good positions. Highest endorsements. Opportunities to earn expenses. New catalog and information free. New term begins Sept. 4th. Write now.

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

ST. JOSEPH VETERINARY COLLEGE

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

KANSAS CITY VETERINARY COLLEGE

Thorough and complete course. Great Demand for Graduates as Practitioners, Teachers, Investigators, Sanitary Officers, Army Veterinarians, U. S. Inspectors. Catalog and other information sent on application.

DR. S. STEWART, Secretary, 1305 East 15th Street, Kansas City, Mo.

ATCHISON BUSINESS COLLEGE

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

A. F. HECK, Proprietor, ATCHISON, KANSAS



We're going to the
Leavenworth Business College, Leavenworth, Kan.
Est. 1887. Write for Catalog.

WHY TOPEKA 2nd. The Central offices of the great Santa Fe Railway—the State offices—and numerous thriving, expanding industries, make a greater call upon us for graduates than we can fill.

DOUGHERTY'S BUSINESS COLLEGE, Topeka, Kansas.



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

Ottawa College
Business College
Catalogue

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

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

Bethany College

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

Lindsborg, Kansas

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

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

FREDONIA BUSINESS COLLEGE, Fredonia, Kansas.

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

KANSAS CITY Business College
N. E. CORNER TENTH AND WALNUT STS.
For catalogue address **C. T. Smith, Sec., 108 E. 10th St., Kansas City, Mo.**

ONE GIRL.
(A combination from Sappho.)
Like the sweep apple which reddens upon the topmost bough,
Atop on the topmost twig—which the pluckers forgot, somehow—
Forgot it not, nay, but got it not, for none could get it until now.
Like the wild hyacinth flower which on the hills is found,
Which the passing feet of the shepherds forever tear and wound,
Until the purple blossom is trodden into the ground.
—Dante Gabriel Rossetti.

Hellebore is the best poison to use on gooseberry and currant bushes.

To get the greatest possible value from a lemon heat it thoroughly before using, and you will obtain nearly double the quantity of juice.

If your manicure file seems smooth and fails to do its work properly, use a needle and go through each little groove on the file. The file will then be as sharp as it was when new.

If stamps have become glued together, do not soak in water. Instead lay a thin paper over them and run a hot iron over it. They will come apart easily and the mucilage will all be right there instead of being soaked off.

When a splinter has been driven into the flesh it can be extracted by steaming. Fill a wide mouthed bottle nearly full of hot water, place the injured part over the mouth and press it slightly. The action thus produced will draw the flesh down and in a minute or two the steam will extract the splinter, also the inflammation.

Princess Mary, daughter of the king and queen of England, has been reared in a thoroughly practical manner and though only thirteen years old she is perhaps much better equipped to earn her own living now, were such a necessity imposed upon her, than a girl in a poor family. She has been required to learn French, German and Spanish, but the languages figure as the least of her accomplishments. Her mother, who is clever at needle-work, has taught her to make lace and even to make her own clothing. More recently she has taken up the typewriter. She has begged her father to dictate letters to her, as she wants to be of help to him. She says that when she gets older she will learn stenography. The princess is thrifty, for when only ten years old she started an account in the post office savings bank.

8963. A Practical Idea for a Boy's Play or Work Garment.

Gingham, galatea or linen finished suiting will be found very serviceable for this design. The body portions are cut to form bloomers or "knickers," while the apron portion is fastened by strap ends to the belt at the back. The pattern is cut in 4 sizes:



4, 6, 8, and 10 years. It requires 2 yards of 27 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.

YOU CAN'T AFFORD ANY BUT BEST SPICES

Inferior spices simply spoil good materials by giving flat, lifeless, tasteless baking.

TONE SPICES

have the life and vim that only perfectly pure, carefully milled spices can have. Don't spoil good material, but be sure by using **Tone** spices. There are two kinds of spices, **TONE'S** and others.



TRIUMPH SANITARY Heavy Tin CHURN
Best for Hot Weather

Makes sweetest butter; gets more of it from the cream, and runs easier than any other. A 7-year old child can churn in 10 minutes, anytime. Easiest to keep clean. Dasher comes out, and apart easily. Lasts a life time. Thousands in use.

FULLY GUARANTEED
Four sizes: 3-gal \$3; 5-gal. \$3.50; 7-gal. \$4.; 10-gal \$5. We ship quick. Send postoffice money order for any size, list price, less 50c freight allowance.

TRIUMPH CHURN WORKS
Louisiana, Mo.

CRESCENT COLLEGE & CONSERVATORY

A girl's boarding school. Private and select. On top of the Ozarks, at Eureka Springs, famous health resort. Climate unsurpassed and suitable to students from the North and South. \$300,000.00 stone buildings. Fireproof. Rooms with private bath. Electric elevator. Preparatory and Junior college courses. Accredited with Vassar, Wellesley, Smith, et al. Advanced Conservatory of Music, Art, Expression, Domestic Science. Outdoor recreations emphasized. Horseback riding a special feature. Students accepted only upon formal application with references furnished. For Catalogue address

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

Try my Course in Automobile Training One Week FREE



I want you to come to my school one week; don't pay me one cent. I want you to see for yourself, absolutely without expense to you, how thoroughly and practically I teach all about the automobile. I am confident my system of instruction—practical experience, no books, individual instruction—is the best system of instruction for you. However, you are to be the judge. I want you to investigate thoroughly before paying. Write today for catalog and **One Week's Free Tuition Enrollment Blank.**

SWENEY'S AUTO SCHOOL,
The School of Practical Experience,
1424 Woodland Ave. Kansas City, Mo.

HIGHLAND COLLEGE, Highland Kansas

THE OLDEST SCHOOL IN KANSAS
The Northeastern Official Training School for Teachers
COURSES: College, Normal, Academy, Business, High Grade Conservatory; Voice, Piano, Violin, Band, Oratory, None Better. Thorough, expenses low, environment the very best. Write for catalog.

REV. Wm. C. T. ADAMS, President

COMMERCIAL Spalding's COLLEGE

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

Do Not Attend Business College Until



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

WRITE TODAY FOR FREE PAMPHLET.
And prices on finely ground phosphate rock, the cheapest and best of all phosphate fertilizers. **W. J. Embry & Co., Columbia, Tenn.**

Horse Owners! Use GOMBAULT'S Caustic Balsam

A Safe, Speedy, and Positive Cure
The safest, Best BLISTER ever used. Takes the place of all liniments for mild or severe action. Removes all Bunches or Blemishes from Horses and Cattle. SUPERSEDES ALL CAUTERY OR FIRING. Impossible to produce scar or blemish. Every bottle sold is warranted to give satisfaction. Price \$1.50 per bottle. Sold by druggists, or sent by express, charges paid, with full directions for its use. Send for descriptive circulars. THE LAWRENCE-WILLIAMS CO., Cleveland, O.



CLAY, ROBINSON & CO.

LIVE STOCK COMMISSION

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

MAN HAY PRESS

With one horse you can bale a ton an hour with our wonderful Daisy. Self-feed, condenser, bar-sided hopper, and self-threading device, reduce hand work, and materially increase the baling capacity. We have hundreds of delighted users. Write today for circular K-157 which gives testimonials, prices and details of five days' free trial.

GEO. ETEL CO.
QUINCY, ILL.

Save on School Furniture

Don't give a third of your money to the middleman. Get your school-room requirements at WHOLESALE PRICES. We are direct-to-the-consumer manufacturers of school supplies and furniture and can save you one-half to one-third. Send for our large general catalog describing everything in detail, and showing the big savings we offer.

Illinois School Furniture Co., Morrison, Ill.

GUNS and Revolvers REPAIRED

We can furnish or make any PARTS for Guns, Rifles, Revolvers, Bicycles and Motorcycles. Send us your work or write for prices. Expert repairing our specialty. Bicycle and Motorcycle supplies.

GRAF GUN & CYCLE WORKS,
2205 E. 9th St., Kansas City, Mo.

You can raise 85 to 100 per cent of your Chicks by using **"Otto Weiss Chick Feed"** thereby saving Funeral Expenses. Ask your dealer, or send for Circular.

THE OTTO WEISS ALFALFA STOCK FOOD CO., Wichita, Kans
Largest Alfalfa and Chick Feed Plant in the United States.

ELM GROVE POULTRY FARM

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

ELM GROVE POULTRY FARM,
Wichita, Kansas.

S. C. Buff Orpingtons

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

EVERETT HAYES, R. 4, Hiawatha, Kansas.

Genuine KHARKOFF SEED WHEAT

Grown on our own farms. From best seed produced in state last season. Ask for samples and prices.

GEO. T. FIELDING & SONS, Manhattan, Kan.

POULTRY

The continued dry weather we have had has snortened the supply of bugs and worms for the chickens, therefore some kind of animal food must be given to offset this shortage.

Onions chopped fine and mixed with the feed occasionally will promote the health of the flock. Onions are a great poultry tonic and are relished by old and young fowls.

A reader inquires: "Is charcoal a good thing for fowls, and how do you feed it? Which are the best layers, White Leghorns or White Wyandottes?" Charcoal is the best cleansing medicine for fowls and is a preventive of disease. Ashes from wood fires may be thrown into the poultry yards and the chickens will pick out the charcoal, or a few ears of corn can be put in the oven and charred and then fed to them. The Leghorn family have the reputation of being the best layers of any breed and probably head the list as spring and summer layers, but take it all the year around, winter and summer, the Wyandottes will not be far behind them in egg production and being larger and plumper are much better table fowls.

These are the days when strictly fresh eggs are at a premium and care should be exercised by the farmer to market none but strictly fresh eggs. The eggs should be gathered frequently during the day, for if left in the nests, even for one day during vrey hot weather, they commence to spoil. When a nest full of eggs is found in the hay mow they should be carefully candled before being sent to market or they may be found to be in the same condition as eggs purchased by Paddy Doolan. Paddy went one day to the store to buy eggs. "What are eggs today?" he asked. "Eggs are eggs today, Paddy," replied the storekeeper, looking triumphantly at two or three lady customers who happened to be in the store. "Faith, an' I'm glad to hear you say so," said Paddy, "for the last ones I got here were chickens."

If you intend to send some of your chickens to the fall fairs you must shove the early chickens right along and feed them for all that is out so that they may be large enough for show purposes. In order to get the old birds in good shape for showing, you must try and get them to moult as early as possible and then feed all they will stand. To get fowls to moult early, feed very sparingly for a few weeks with feed of a relaxing nature, such as bruized meal or oil cake meal.

Grain Seeding Revolutionized.

The practical farmer of today no longer sows his seed broadcast. Why? Because he can do it cheaper and better with a grain drill. Neither is he satisfied with the drill his father used, because grain seeding, like everything else, has experienced an era of progress. The disk grain drill has practically revolutionized the method of sowing small grains. Thousands upon thousands of acres, where it would be absolutely impossible to put in grain by the employment of old-style grain drills, have been transformed into golden-hued grain fields by the invention of the disk drill. Not only is this true, but the disk drill has lessened the labor for both man and beast. It has also enabled the farmer to reseed his worn out meadows and run-down pastures. The farmer nowadays who has a Kentucky Disk Drill does not worry if his fields are trashy and the ground covered with peavines, crab grass and trash. He no longer worries of his fields are muddy, or his ground is hard and difficult to sow. He knows full well that his Kentucky Drill will go through it all, put the seed in the ground and cover it well. The Kentucky drill is made in a wide range of styles and sizes—plain and fertilizer—by The American Seeding-Machine Co., Incorporated, Richmond, Ind., whose ironclad warranty protects every purchaser. You can get in the Kentucky line a drill that will do your work right, no matter what state or territory you live in. Send to the manufacturers for the Kentucky Drill catalogue, read about Kentucky Drills and then call on your retail implement dealer and insist on seeing the Kentucky Drill.

Readers Market Place

CLASSIFIED ADVERTISING 3 CENTS A WORD

Advertising "bargain counter." Thousands of people have surplus items or stock for sale—limited in amount or numbers hardly enough to justify extensive display advertising. Thousands of other people want to buy these same things. These intending buyers read the classified "ads"—looking for bargains. The "ads" are easy to find and easy to read. Your advertisement here reaches a quarter of a million readers for 3 cents per word for one, two or three insertions. Four or more insertions, the rate is 2 1/2 cents per word. No "ad" taken for less than 30 cents. All "ads" set in uniform style, no display. Initials and numbers count as words. Address counted. Terms always cash with order. Use these classified columns for paying results.

HELP WANTED.

WANTED—LOCAL MEN TO TAKE ORDERS for nursery stock in Kan., Mo., Okla., Ill., Neb. Experience unnecessary. Cash weekly. National Nurseries, Lawrence, Kan.

WANTED—ONE THOUSAND LADIES to secure special introductory offer on our Seamless Aluminum Fireless Cooker; club rates. National Mfg Co., College View, Neb.

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

SALE OR EXCHANGE.

A SUB-IRRIGATED VALLEY FARM; TWO hundred acres, in sight of town; best alfalfa and cantaloupe land; write for particulars. Lander, Deerfield, Kans.

REAL ESTATE.

WILL TRADE A GOOD FARM FOR stallions, jacks or other horses. Box 42, Formosa, Kan.

I HAVE A GOOD LIST OF KANSAS and Missouri farm lands for sale or exchange. Grant Johnson, Newton, Kansas.

SNAP—1 1/2 MILE TOWN, 157 A. HO, alfalfa creek farm; crops with place; \$75; easy terms. Box 696, Paradise, Kans.

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

FOR SALE OR TRADE—ORCHARDS, fruit land. Want cash, land, income, merchandise. List me. Fu. J. Barbee, Palestine, Colo.

WELL IMPROVED 160, 50 ACRES creek bottom alfalfa land, bal, level wheat land, fenced, 50 fine bearing cherry trees, fine water \$3,200.00, terms. Buxton Bros, Utica, Kansas.

FARM FOR SALE—EXTRA GOOD 180-acre improved farm for sale at \$60 per acre, on very easy terms; stores, churches, creameries, condenser, corn, wheat, clover and dairy farm. E. Osborne, Centralia, Ill., Box 273.

FOR TRADE—A VERY FINE IMPROVED quarter section, close to this city; want grass land in central Kansas or Nebraska. J. H. King, Cawker City, Kan.

240 ACRES, HALF IN CULTIVATION; 5-room house, 2 barns, orchard, living spring 90 feet from kitchen door; 4 miles Humansville. Price \$28 per acre. Mo. Land Co., Humansville, Polk Co., Mo.

WHY PAY RENT FOR A FARM? MAKE rent pay for a farm. You may not find a good farm for rent next year. You want fertile land, wood, water, good neighbors. Improvements, \$10 up. Terms. Write for booklet. Arkansas Farms Company, Little Rock, Ark.

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

POULTRY.

BLAKER'S BARRED ROCKS ARE SUPREME in type and color, winning at the largest shows. Get my catalog and see for yourself the grand quality I am offering in eggs from blue blood stock. Choice incubator eggs \$2 per 30, \$6 per 100. A. E. Blaker, R. 22, Parsons, Kan.

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

EGGS FOR HATCHING; 13 BREEDS and varieties, chickens and ducks; Indian Runner ducks specially; all stock first class. Write for catalog with prices. J. M. Rahn & Son, Clarinda, Iowa.

GALVA POULTRY YARDS—R. C. W. Leghorns and White Wyandotte hens and cockerels for sale; eggs by the setting or hundred. John Ditch, Prop., Galva, Kan.

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

ROSE COMB REDS. BARGAINS IN yearling hens and cocks. Eggs 1/2 price now. F. A. Rehkopf, Topeka, Kansas.

BARRED ROCK BABIES AND BREEDERS. Eggs, 15, \$1.00; 60, \$2.25; 100, \$5.00; Mrs. D. M. Gillespie, Clay Center, Kan.

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

FOR SALE—BUFF ORPINGTON CHICKENS, 3 mo. old; also Fox Terrier puppies. Eliza Fairchild, Endicott, Neb.

SILVER SPANGLED HAMBURG EXCLUSIVELY; nothing better. J. L. Brown, Box B, Kearney, Neb.

R. C. R. I. REDS FROM PRIZE-WINNING stock. Mrs. L. C. Pierce, Riley, Kas. R. 3.

DOGS.

"PEDIGREED COLLIE PUPS FOR SALE Fine working stock. Males \$8, females \$5. Percy Lill, Mt. Hope, Kansas.

SCOTCH COLLIE PUPS, COLOR SABLE and white; farm raised; natural heelers; price \$5 to \$8. Write for description. E. B. Peterman, El Dorado, Kan.

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

CATTLE.

HOLSTEINS—SPECIAL PRICES ON A few fresh heifers for a short time. Ira B. Romig, Sta. B, Topeka, Kan.

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

JERSEY CATTLE, COLLIES, POLAND Chinas and White Wyandottes. For quick sale, choice pigs by Peerless Perfection '2d, the grand champion at American Royal, 1906, but of granddaughters of Meddler '2d. Price \$10. Write your wants. U. A. Gore, Seward, Kan.

SEEDS AND PLANTS.

BOONE CO. WHITE AND HIAWATHA Dent seed corn; prices reasonable. I refund your money if you are not satisfied. E. E. Hazen, Hiawatha, Kan.

OILS.

BEST KEROSENE AT \$3.60 PER 52-gallon barrel; crude dip at \$2.35 per 52-gallon barrel; \$1.50 allowed for kerosene and gasoline barrels returned when empty; don't fail to get our prices on your oil needs. The Rollin Oil Refinery, Chanute, Kansas. (Oldest independent refinery in Kansas.)

MISCELLANEOUS.

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

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

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

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

USED REMINGTON NO. 6 IN GOOD order; recently overhauled; a bargain if taken at once. Write 13, care Kansas Farmer, Topeka, Kan.

DO YOU WANT TO KNOW HOW TO shave yourself smoothly, quickly, and with the utmost comfort? I can tell you how. No trouble to learn it, and get the best shaves you ever had, even by the best barbers. Send me 50c for full information. After you may get my information, and then think it is not worth all it cost and more too, I'll be glad to return your half dollar. Fair enough isn't it? If you like, I'll send you references. S. J. Jackson, Box 142, Topeka, Kansas.

MAKE SOME EXTRA MONEY THIS summer. You can do it easily by taking subscriptions to KANSAS FARMER in your neighborhood. Liberal commissions paid to workers. Write for plans and terms at once. Good territory open, especially in Kansas. Address KANSAS FARMER, Topeka, Kan.

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

POULTRY SUPPLIES—WE HAVE A full line. Our "Chick-O" is the best chick feed. D. O. Coe, Topeka, Kans.

When writing advertisers, please mention KANSAS FARMER.

SURE DEATH TO LICE AND MITES

A BIG INCREASE IN YOUR POULTRY PROFITS

Lice and Mites kill Poultry Profits. Powders and Sprays won't rid your fowls and buildings of such vermin. Clean, healthy fowls are the sure profit producers. Poultry covered with lice and mites are worthless as layers or anything else. We guarantee that

The National Medicated Chicken Perch

will effectively rid your buildings of lice and mites. This perch is strong, safe, clean, sure and simple. Can't get out of order. A child can operate it. It will double your poultry profits. Shipped prepaid.

Write Today for Illustrated Book and Prices.

NATIONAL PERCH CO., Inc.
303 Lincoln Avenue
HASTINGS, NEB.

HORSES AND MULES

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

Percherons Belgians and Shires

My new barn is now ready and filled with a large assortment of imported and Home Bred Percheron, Belgian and Coach Stallions; also mares and colts. I will sell you a registered stallion for \$300. Come to Paola and buy a stallion or mare at their actual value.

JOSEPH M. NOLAN, Paola, Kansas.

THE BEST IMPORTED HORSES, \$1,000 each. Home-bred, registered draft stallions, \$200 to \$800 at my stable doors. Address **A. LATIMER WILSON, Creston, Iowa.**

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

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

ANGUS CATTLE

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

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

JERSEY CATTLE

FOR SALE—Ruby's Financial Count, son of Financial Count No. 61316; the dam is Ruby's Fontaine No. 212934, a 45-pound cow recently sold for \$350; gave 45 pounds of milk per day with second calf, milk testing 5 1/2 per cent, and with last calf at the age of 6 years gave 44 pounds of milk for a long period of time, milk testing 5 1/2 per cent. The dam and grand dam of this cow are both 40-pound cows. Ruby's Financial Count is 3 years old and fit to head any herd. Financial Count is a half brother of Financial Countess, a cow with a butter record of 935 pounds and 10 ounces in one year. This young bull is sure, gentle and a fine individual. **W. N. BANKS, Independence, Kansas.**

LINSCOTT JERSEYS

Offers a few choice cows in milk and some bred heifers. Milk and butter records accurately kept.
E. J. LINSCOTT, Holton, Kansas.

SHORTHORN CATTLE

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

Houx's Polands and Shorthorns

50 big type Poland Chinas. March and April pigs, sired by two extra heavy boned boars. Priced at farmers' prices. Ready to ship, order now, and get choice Roan Shorthorn bulls to offer. Sired by King Challenger 31204, a son of White Hall King 222724. Prices reasonable. Come or write.
W. F. HOUX JR., Hale Mo.

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

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

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

SHORTHORN BULLS

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

SHORTHORN CATTLE.
Sam K. Landfater, Barnard, Mo., Breeder of Shorthorn cattle and Duroc Jersey Hogs, young bulls of serviceable age for sale—also choice Heifers, high class Duroc boars and Gilts for sale at all times.

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

HERD BULL For Sale
Victor Orange 212830, a Scotch Orange Blossom, sired by Victorious 121469.
H. R. COFFER, Savannah, Mo.

HEREFORD CATTLE

Brookside Farm, Savannah, Mo., breeders of Hereford cattle. Herd headed by Heoid 101st No. 162585 and Horace No. 300423, he by Beaumont. Young bulls for sale. Mail orders given prompt attention.
WARREN LANDERS, Savannah, Mo.

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

RED POLLED CATTLE

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

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

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

POLLED DURHAM CATTLE

BELVEDERE X2712-195058
Son of the \$1,500 Grand Victor X1633; 150365 heads my herd of Double Standard Polled Durhams. A few extra good, blocky, thick-fleshed young bulls for sale. Inspection invited. Farm adjoins town.
D. C. VAN NICE, Richland, Kansas.

HOLSTEIN CATTLE

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

HOLSTEIN CATTLE

25 high grade Holstein cows and heifers for sale; 3 to 7 years old; a fine lot; well marked; nearly all pure bred but not recorded. Also one registered 2-year-old Holstein bull.
B. L. BEAN, Cameron, Missouri.

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

Rock Brook Holsteins

Special offer: Twenty bulls ready for service at \$75 to \$100. Bul calves \$40 to \$75. Good individuals, best of breeding, all tuberculin tested. Write at once.
ROCK BROOK FARMS, Station B, Omaha, Neb.

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

HOLSTEIN CATTLE—Young bulls of the famous Shadybrook family and some bull calves. This herd is headed by the celebrated Sir Johanna Colantha Payne No. 42148. No females at present. Address **M. E. MOORE & CO., Cameron, Mo.**

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

GALLOWAY CATTLE

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

GUERNSEY CATTLE.

GUERNSEY CATTLE FOR SALE—Young bulls by Eminence of Birchwood, 688 to 714 pound fat records. Stock guaranteed against tuberculosis for 6 months after sale. Largest herd in Kansas. Farm near Roxbury, Kan., and visitors welcome except Sundays.
FREDERICK HOUGHTON, Galva, Kansas.

HOLSTEINS FOR SALE

17 heifers, 3 to 14 months old, 31-32 pure bred, from splendid milk strains and backed by A. R. O. records.
12 splendid cows, 15-16 pure bred, big milkers; tuberculla tested and in excellent condition.
1 bull calf, 7 months old, pure bred, registered and backed by best Holstein strains.
The owner is not a dealer but has seventy head and is short of feed. A bargain for quick buyers. For further particulars, address,
A. F. McCLARY, Cowgill, Mo.

RED POLLED CATTLE

F. W. LAHR, Brooks, Ia. breeder of high-class Red Polled Cattle and Duroc Jersey Hogs. Herd bull Banker 16226, sired by One Price 8522, for sale. This is a 2,500 lb. bull of the show type, and a guaranteed breeder. Will be sold, worth the money. Write me for description of stock and prices. Satisfaction guaranteed.
F. W. LAHR, Brooks, Ia.

SCOTCH SHORTHORN BULLS

Twenty head of high-class Scotch and Scotch topped bulls for sale; yearlings and 2-year-olds; all bred right and good individuals; also herd bull Victoria Prince Second 288026—a herd bull with a record as a breeder; all will be sold; worth the money and descriptions of stock guaranteed.
GEO. A. ROBINSON, Prescott Ia.

STEDEM STOCK FARM - N. STEDEM & SONS

Breeder of high-class Jersey Cattle and big-type Poland China hogs. Breeding stock for sale at all times. St. Lambert strain of Jersey cattle of the best breeding and a high test record. A fine lot of spring pigs now ready to go. All stock guaranteed as represented or money refunded. Write us for prices and descriptions of stock. We suit you.
N. STEDEM & SONS, Marshall, Mo.

AUCTIONEERS

Learn Auctioneering by Mail and should you ever wish to attend

Our school in person, amount paid on mail course will apply upon tuition here. Will hold next term Aug. 7th, at Trenton, Mo. The largest school of the kind in the world.
Missouri Auction School, Trenton, Missouri

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

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

LEARN AUCTIONEERING at the world's greatest school and **BECOME INDEPENDENT.** Catalogue and complete information FREE. Write for it today. **JONES NAT'L SCHOOL OF AUCTIONEERING, 2556 Washington Blvd., Chicago, Ill.** Summer term opens July 31.

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

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

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

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

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

Poland China Type.
It is found to be a recognized fact that the Poland China hog of today is of greater size on an average than was the case ten years ago, says a writer in the Swineherd. A talk with the breeders of Poland Chinas who claim the big type, especially, where this is associated with good or fair quality, shows that their demand from the general public is the best existing demand today. It also shows that the majority of the demand which is not only big type in name, must be big type with quality combined.

There is a genuine belief in and demand for plenty of size by the farmers throughout the country, provided it be associated with quality. It is also a fact that the competency of the breeder has a good deal to do with the making of this quality. In other words, a poor feeder and a man without a correct interest and knowledge of quality can not satisfy his customers, no matter what name he sells under. It requires ability, judgment and close attention to reap the best success in the hog business with a recognized demand for size, which two years ago the quality part did not assume the influence that it does today with the big type breeders.

It is another shown fact, that there are among some of the breeders who are not claiming the title of big type, but have been breeders of show ani-

mals for years, who have followed the demand of the public for size and have today in their herds more size than some of the big type breeders, yet they pass under the title of medium type, because they are better breeders, feeders and developers. This can be found in herds in Ohio, Indiana and Illinois in certain instances and furthermore that in each case where there is great size they are sure of the very best of quality.

We have found also in business that there are big type herds in Illinois, Michigan, Iowa, Nebraska, Kansas and Missouri, where they have the very largest type associated with splendid quality.

So, very much of the excellency in the breed of Poland Chinas where it carries both size and quality is because of the efficiency and competency of the breeder. This has always been the case and is likely to remain so. It is shown that one breeder always gives satisfaction with his sale, while another is not depended upon, simply because he is not able to do what the other can do.

We believe that there has been marked improvement in the character of the big type in the quality question and in the medium type on the size question, and feel confident that a committee of impartial breeders, selected from both types, would be bound upon a thorough investigation of the best herds of both types to pronounce a very great and progressive improvement in the Poland China breed in the last five years.

This improvement will show forth in the increased size, the stronger bone, the better health, the quickened growth and larger litters.

We congratulate the breed on its advancement and progress as we are interested no matter what the type may be selected.

FIELD NOTES.

The Garnett Fair.
Col. C. E. Bean, owner and manager of the Anderson County Fair, has claimed the date of August 29 to September 1. Many new features will be added this year and an exceptional race program has been arranged. Colonel Bean is a live wire and an up-to-date breeder of Poland China hogs and a trainer of standard-bred horses. Don't fail to watch for further mention of this fair in Kansas Farmer.

Herd Boar Changes Hands.
R. P. Wells, Duroc Jersey breeder of Formosa, Kan., reports the sale of his herd boar Red Ruler to George Phillip of Lebanon, Kan. Red Ruler is one of the good sires of this part of the state and Mr. Phillip is to be congratulated upon making this purchase. Mr. Wells says further that his pigs are doing better than ever before and that he is feeding feeds calculated to make growth rather than fat. When writing Mr. Wells kindly mention Kansas Farmer.

F. W. LAHR's Herds.
Attention is called to the card of F. W. Lahr of Brooks, Ia., in this issue of Kansas Farmer. Mr. Lahr is one of Iowa's enterprising young breeders that has succeeded during the past few years in building up a herd of cattle and one of hogs that is attracting the attention of prominent breeders, not only of Iowa, but in neighboring states. His herds of Red Polled very high Duroc Jersey hogs are both very high class, not only as to breeding—as the individuals have been carefully chosen. Banker herd of Red Polled is headed by Banker 16226, sired by One Price 8522, dam Bounty 1257. Banker is a great show type and finished bull of the true show type and weighs 2,500 pounds. The cows of this herd are also of very fine breeding, sired by One Price, Red Rock and many other hog sires. His herd of Duroc Jersey hogs is headed by Lahr's Col 102537, who is a big, rangy hog with heavy bone and all the class of a smaller-type show hog. His strain of the breed and is noted for its size and quality. He has at this time a ready number of spring pigs that will be ready for the fall trade about Sept. 1. He is now offering for sale his herd bull Banker.

POLAND CHINAS

POLAND CHINAS

DUROC JERSEYS

DUROC JERSEYS

LONE ELM POLAND CHINA HERD

J. M. FEMBERTON, FAYETTE, MISSOURI. Breeder of Big Boned, High Class, Poland China Hogs. A number of high class fall gilts bred for September farrow for sale. Will also book orders for spring pigs. All stock guaranteed as represented; also safe delivery at your station. If you want big boned, high class Polands, write me at Fayette, Mo.

GILDOW'S BIG TYPE POLAND CHINAS

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

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

SOME fine fall gilts at a bargain, either open or bred to my mammoth young boar. Spring pigs by five great boars. Orders taken and pigs shipped after weaning. Priced low to move. Write your wants. W. C. MILLIGAN, Clay Center, Kansas, Phone Idaho 68-22.

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

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

Big Type Poland China Gilts. A few very choice ones sired by the great Wilkes Again and safe in pig to a grandson of Grand Look. \$30 each if sold soon. J. B. WHIPPLE, Fall City, Neb.

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

CORRECT TYPE POLAND CHINAS. Headed by M's Giant Wonder by Price Wonder, dam by Orange Chief. Sows in herd of Expansion, Hadley, etc., Breeding pigs both sexes for sale. JOHN T. CURRY, Winchester, Kans.

RYESTEAD'S BIG KIND POLAND CHINAS. Contains the breeding of about all leading big type sires. Herd boars O. K. Hutch by Hutch Jr. and Commander 1, by Big Commander. 75 choice pigs to date. Visitors welcome. A. R. RYESTEAD, Mankato, Kansas.

Meisner's Big Smooth Poland Chinas. Headed by Metal's Choice by Mo, Metal, he by Bell Metal. Eighty early spring pigs sired by this boar, Expansive, Big Price, Col. Thomas and other good sires. Dams in herd are big and motherly and have the best kind of big type pedigree. Visitors welcome. T. J. MEISNER, Sabetha, Kansas.

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

Short Grass Herd Polands. A few choice fall boars sired by King Darkness, Toastmaster, 2d Impudence, Looking Forward and Short Grass Lad, out of high class sows. Price \$25, all first class and guaranteed. J. F. WARE, Garfield, Kansas.

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 that you want. Address STRYKER BROS., Fredonia, Kan.

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. WOLFFSPERGER, Council Grove, Kansas.

ANCOATS BIG POLAND CHINAS. Herd headed by the line bred Expansion boar Bell Expand by Bell Metal. 50 of the best pigs we have ever raised now ready to select from. All but one litter by boar just mentioned and out of mature sows bred along popular lines and strictly big type. Buy early and save heavy express rate. Will also sell Bell Expand. S. B. ANCOATS, Clay Center, Kansas.

FAIRVIEW POLAND CHINAS. FOR SALE—50 extra fall pigs, both sexes, with size and quality; priced to sell; descriptions guaranteed. Write us. P. L. WARE & SON, Paola, Kansas.

POLAND CHINA HOGS. Mastodon Poland China hogs, the big-boned type that will weigh when mature 300 to 1,000 pounds. Mastodon Price leads this herd. Mastodon Price sired by A Wonder 187556, a hog weighing in full flesh 1,200 pounds. If you want the right kind, they are at Quality Ridge Farm. A number of bred gilts for sale; all choice individuals. Phone me at Dearborn, Mo. Railroad station Newmarket, Mo. CLARENCE DEAN, R. 1, Weston, Missouri.

GREEN LAWN HERD BIG BONE POLAND CHINAS. Herd headed by Big Spot, Major B. Hadley, big bone, and Giant Wonder by A Wonder, fall and spring pigs sired by above hogs; also some sired by A Wonder, Long King and Longfellow, Jr., out of large sows sired by Blain's Wonder, Expansion John, Grand Tecumseh, King Blain, Long King and Blain's Last Hadley. Correspondence solicited, descriptions guaranteed. A. J. EBHART & SONS, Adrian, Mo.

Choice Fall Boars For Sale

Good ones sired by Captain Hutch #9068, Barred Plymouth Rock eggs from farm range birds. Visitors welcome. J. H. HARTER, Westmoreland, Kansas.

FALL BOARS BY HADLEY BOY 48009

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

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

Albright's Big Polands

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

Graner Has Fall Boars For Sale

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

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

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

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

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

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

12 Strictly Big Type Boars

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

Big Boned Poland Chinas

Forty big, stretchy boars and gilts for sale sired by the most noted boars, Big Hadley, John Ex., King Hadley and John Long 2d, and out of strictly big type sows. Write at once. 200 head in herd. CHAS. Z. BAKER, Butler, Mo.

Middle Creek Poland Chinas

For Sale—Few large type fall boars sired by Monarch Mogul out of my best sows. They are herd headers and priced to sell. Write at once. W. H. EMENS, Elmdale, Kansas.

BIG HADLEY, BIG HUTCH AND EXPANSION BLOOD

Predominate in my herd. Herd boars: Hutch Jr. by Big Hutch and King Hadley 2d by Big Hadley. Among sows are Granretta, litter sister to Bell Metal; Pan Princess, weight 725 lbs.; Mollie S., 750 lbs., and Iless Corwin, the dam of Expansion See, the biggest boar ever owned in the West. 90 choice pigs farrowed to date. Visitors always welcome. C. W. JONES, Solomon, Kansas.

OHIO IMPROVED CHESTERS

MOSSE OF KANSAS

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

MAPLE LEAF HERD

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

ROSE HILL DUROC JERSEY HERD

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

E. W. DAVIS & COMPANY'S MODEL QUEEN DUROC JERSEY HERD.

The High Class Herd of Missouri. The home of Model Queen, grand champion sow at Nebraska State Fair in 1910; also the famous herd boars, McNeill's Model 69370, King of Cois, 2d 22351 and Blue Ribbon Chief 66533. A high class lot of spring pigs now ready to ship. Our bred sow sale July 26. The offering will be a strictly high class lot of tried sows and gilts. E. W. DAVIS & CO., Glenwood, Missouri.

12 Extra Choice Duroc Boars For Sale

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

RIVER BEND HERD DUROCS.

Headed by Fitch's Kant by Kant Be Beat and out of a son by Ohio Chief, one of the best individuals and breeders in the state. Let me know your wants. W. T. FITCH, Minneapolis, Kansas.

UNITY CHESTER WHITE HERD.

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

THE BEST DUROC JERSEY BLOOD OBTAINABLE.

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

ALFAFA STOCK FARM.

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

HAMPSHIRE HOGS.

All ages, both sexes, best strains, prize blood. Prices right. C. W. WEISENBAUM, Altamont, Kansas.

BERKSHIRES

LARGE ENGLISH BERKSHIRES

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

BERKSHIRE HOGS.

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

RENO BERKSHIRES.

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

POLAND CHINAS

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

MOONEY CREEK POLAND CHINA HERD.

The biggest of the big. Wonder and Mastodon strains. Herd headed by Big Osborne. Pigs raised under natural conditions and no overfed. I have bought seed stock from the best herds in Iowa and have new breeding for Kansas. Write for information about the kind I breed. Visitors always welcome. JOHN W. NOLL, Winchester, Kans.

FIELD NOTES.

Hadley Boy Polands. The writer called last week at the farm of Geo. M. Hull at Garnett, Kan. At the head of this herd is the line bred Hadley boar Hadley Boy, one of the best bred Hadley boars we know of in Kansas. Mr. Hull also has several young boars. Bean's Wonder is a very promising young boar. The Lion and Kansas Hadley are also large, growthy fellows and are making good as breeders. The sows in this herd are all producers and have raised large, even litters and are all strictly large-type breeding of the quick-maturing kind. On October 18 Mr. Hull and Colonel Bean will sell a useful lot in a public sale. Keep it in mind and remember this is the place to buy large, useful Polands at all times in the year and at farmers' prices for first-class stock.

Allendale Farm Angus Herd.

W. A. Holt, owner of Allendale Farm, Savannah, Mo., is also the owner of one of Missouri's very high class herds of Angus cattle. This herd has been built up under the personal supervision of Mr. Holt, who used every care in selecting breeding stock of the best type and breeding for use in his herd and the result is a herd of very high class Angus cattle, uniform in type and quality. His herd at this time is headed by Even Eric 11159, a Trojan Eric bull sired by the famous Earl Eric of Baidalloch 50180. Even Eric is a fine individual and an Angus bull of ideal type. Mr. Holt's splendid herd of young Angus cows is made up of Queen Mothers, Heather Blooms, Drummond Lucys and representatives of other popular Angus families. Mr. Holt is offering a few top-notch young bulls for sale at this time. All of them are high-class and some of them are show bulls.

The excellence of this herd should attract Angus breeders wanting high-class stock. If interested write Mr. Holt at Savannah, Mo., mentioning Kansas Farmer.

Stedem & Sons' Stock Farm.

Attention is called to the change in the card of N. Stedem & Sons of Marshall, Mo. Stedem & Sons are the owners of one of Missouri's noted stock farms and are breeders of high-class Jersey cattle and Poland China hogs. They are now offering breeding stock from their splendid herd of St. Lambert bred Jerseys, a choice lot of individuals with a high test record. Jersey breeders or anyone wanting high-class Jerseys should investigate this herd. They are also offering breeding stock from their herd of big Poland China hogs. They have a large number of choice spring pigs and some older stock. They guarantee description of all stock and satisfaction in every way or refund the money.

Mammoth Hadley and His Owner.

A recent visit to the Geo. W. Smith Poland China farm at Burchard, Nebraska, increases the interest and admiration that the writer has always had for the great breeding boar Mammoth Hadley. As he grows older his good points stand out more and at this time he seems to take rank among the really great boars of the breed. A son of Big Hadley, his breeding is all that could be desired from the standpoint of sire greatness and his dam was one of the sows that made the John Blain herd famous. Mr. Smith has always believed in Mammoth Hadley and has proved his faith by keeping him in first place at the head of his herd. Mr. Smith doesn't say as much about this boar as some men would, preferring to let others form their own conclusions. He never asks nor expects undue praise for the boar or the rest of the herd and for this reason it is altogether probable that this boar has had rather scant advertising compared with many other boars not nearly so deserving. Mr. Smith has 70 dandy pigs, a big per cent of them by Mammoth Hadley. He is reserving the best ones for his fall sale which will be held on the farm on Oct. 20th; remember the date and investigate for yourself the greatness of Mammoth Hadley and his get.

Geo. A. Robinson's Shorthorns.

A representative of Kansas Farmer recently inspected the Scotch Shorthorn herd of Geo. A. Robinson of Prescott, Ia. Mr. Robinson is one of Iowa's pioneer Shorthorn breeders and at the present time has one of the best herds in the state. His herd is headed by Riverside Victoria Prince 2d 238026, sired by King Gloster 155470, dam Monroe Victoria. King Gloster is a pure-bred Scotch bred Cruickshank, tracing in all his crosses but one directly to the Amos Cruickshank herd. Riverside Victoria Prince 2d is a high-class ton bull of the meaty type and is an extra fine individual. The cow herd on the Robinson farm is an excellent lot of individuals, Victorias, Orange Blossoms, Princess Royals and other popular Scotch families. Mr. Robinson is offering for sale at this time 20 head of yearling and 2-year-old bulls, which are a high-class lot. He also offers his splendid herd bull Riverside Victoria Prince 2d, a bull that is a guaranteed breeder and a credit to any herd. Farmers and breeders wanting bulls should not overlook this opportunity. These bulls will be sold well worth the money. See card in Kansas Farmer and write Mr. Robinson at Prescott, Ia. Kindly mention Kansas Farmer when writing.

Milligan's Poland Chinas.

The writer recently spent the biggest part of a day at the W. C. Milligan farm home about 10 miles south of Clay Center Kan. Mr. Milligan and his family are most excellent entertainers and the good dinner and kind treatment are incidents not easily forgotten. Mr. Milligan is one of the most successful and enthusiastic Poland China breeders in Kansas. He never is too busy to talk hog and takes a real pleasure in showing what he has produced in the years that he has been engaged in the business. His spring crop of pigs, of which there are about 50, are nearly all by the big-type boar Victory, a yearling boar sired by O. K. Chief, he by O. K. Price. His dam was one of the best sows in R. J. Peckham's herd at Pawnee City, Neb. Other pigs are Voter, Capt. Hutch, Col. Thomas, H. C. Graner's boar and others. Mr. Milligan has a very choice line of sows, representing a big variety of breeding, among them daughters of Mogul Monarch, Colossus, Bell Expand, Jumbo U. S., etc. Mr. Milligan has in his herd one of the greatest young boars in the west and if nothing happens he will make a boar with a reputation. He was sired by Guys Monarch by Guys Price 2d and his dam was the \$150 sow sold at H. C. Graner's last winter sale. This pig will be a year old August 25 and now has a 9-inch bone weighs about 370 pounds in moderate flesh. If you want a gilt bred to this boar write Mr. Milligan, mentioning this notice.

BARGAINS IN LANDS

Get a Free Lot in the New Town of Benton, Colorado

We are GIVING AWAY a limited number of lots in the NEW TOWN OF BENTON, COLO., for the purpose of advertising. We are just giving a few in each locality in order to get our NEW TOWN thoroughly advertised in every part of the United States. Benton, Colo., is on the main line of the A. T. & S. F. Railroad, nine miles from La Junta. This is in the great A. Kansas Valley, as well as being in Otero County, the county which took the first prize at the Eighteenth National Irrigation Congress, as well as the first prize at the Chicago and Pittsburg Land Shows. Benton is surrounded by a number of irrigation districts, which is making a large settlement surrounding this town. A large tract of land near Benton is now under irrigation, and there are a number of other irrigation districts which expect to be in active operation in the near future. These things combined are bound to make our town of Benton a thriving little city. Reference, La Junta State Bank, La Junta, Colo., First National Bank, Ottawa, Kan.

Below is an application which you can cut from this paper and mail direct to the La Junta State Bank with a postoffice money order for \$2.50, to defray expense of issuing and acknowledging Warranty Deed. We reserve the right to withdraw this offer at any time without notice.

Benton Townsite Co., La Junta, Colo.

APPLICATION FOR FREE LOTS IN BENTON, OTERO COUNTY, COLORADO
La Junta State Bank, La Junta, Colo.

Gentlemen: Enclosed please find P. O. money order for \$2.50, which you will please place to the credit of the Benton Townsite Company, when they have delivered to you a properly executed Warranty Deed to one of the free lots which they are giving away, in order to advertise the NEW TOWN of Benton. In accepting this free lot it is understood that the Benton Townsite Company have the privilege of placing my name and address upon this lot and further agreeing that they shall have the right to buy this lot back at any time in the next twelve months following date of this application for the sum of \$40 cash if they desire to do so; provided, it is still unimproved. I also send herewith the names of two parties who I think would be interested in one of the free lots in Benton, Colo. Please make this deed to the following:

Names of two interested parties:

NAME _____

COUNTY _____

TOWN _____

STATE _____

FARMS FOR 61 FARMERS IN COLORADO

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

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

NESS COUNTY "SNAPS"

A square section of smooth land; 200 acres bottom land in cultivation; good shallow well; in good neighborhood; 8 miles to R. R. town. Price \$17.50 per acre. Can be divided at same price. Write for price list and county map. FLOYD & FLOYD, Ness City, Kansas.

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

240 ACRES, 9 rm. dwelling, close to town; bargain. Buckeye Agency, Agricola, Kan.

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

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

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

HAVE over 100,000 acres in different tracts; country is good. Write for my list. J. Douglas Harp, Mullinville, Kiowa Co., Ka.

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

32 YEARS IN NESS COUNTY. Write me about cheap farms here. W. P. ANDERSON CO., Brownell, Kansas.

200 ACRES, 14 miles south of McPherson, Kan.; good farm; price \$90; exchange for mds.; mostly alfalfa land; imps. good. J. M. Clubine, Durham, Kan.

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

OLDEST LAND AGENTS IN MONTGOMERY county. Write today or choice list of farm bargains. Foster Bros., Independence, Kansas.

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

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

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

ONE-HALF SECTION improved Stafford Co. wheat farm, \$60 per a. Must be sold before July 1; close to church and school. See this and make me an offer. Write for full particulars. J. B. KAY, St. John, Kansas.

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

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

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

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

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

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

BUTLER, HARVEY AND SEDGWICK CO. LANDS.

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

FOR EXCHANGE. A fine 80 acre farm in Sumner county, Kansas, 2 1/2 miles from town, 65 acres in cultivation; extra good soil; \$50 per acre; mtg. \$1500 to run 5 years. Want hardware for equity. A. B. ESTEP, Yates Center, Kansas.

100—CHOICE DICKINSON AND CLAY CO. FARMS—100

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

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

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

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

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

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

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

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

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

Cheap Kansas Land From \$3.00 to \$15.00 per acre. write **GEO. J. DOWNER, Syracuse, Kans.**

210 IMPROVED Woodson Co.—timothy, clover, alfalfa on farm. Wants mds., or income property. Write for description. **YATES CENTER LAND CO.** Yates Center, Kans.

A FINE NESS COUNTY FARM—240 acres 1 1/2 miles from town, 1/4 mile to school, 160 acres perfectly smooth, 80 acres pasture land not rough, good well, NEVER DRY, all fenced and cross fenced. Price \$25 per acre. Will trade for good clean stock of mds., groceries preferred. If interested write for list. Rutherford & Oliver, Utica, Kan.

WRITE G. L. PAINTER & CO. About Ford Co. Land. \$15 per acre up. **DODGE CITY, KANSAS.**

Hamilton County Lands One quarter section, \$900. 480 acres, Bear Creek Valley, \$3,800. 100 acres Arkansas River bottom alfalfa land, \$6,000. **J. B. PRATT, Syracuse, Kansas.**

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

WESTERN KANSAS Wheat and alfalfa lands cheap; no sand or rock; good soil and productive; write for list; state in first letter what you wish; save delay. **V. C. CUTLER CO., Scott City, Kansas.**

TRADES I have several customers who have lands and town property to trade for merchandise. What have you got to offer? **G. W. KLOCKENTEGGER, Selbert, Colo.**

160 ACRES, 3 miles from town, one 4-room and one 2-room house, barn with mow 14x24, cattle shed 14x50, 35 acres cult., 4 acres alfalfa, 15 a. alfalfa land, all tillable, school 1/2 mi., telephone, young orchard and grove of forest trees. Price \$4,500. Trade for good clean stock general merchandise or hardware. F. T. McNinch, Ransom, Kansas. Land list free.

Just What You Want 160 acres, Rush county, Kansas, 2 1/2 miles from good town and railroad station, 100 acres under cultivation, 60 acre grass, all tillable, a bargain at \$4,500. **JAMES H. LITTLE, The Rush County Land Man, LaCrosse, Kan.**

400 ACRE STOCK FARM for sale; has 2 sets of good improvements; land lays fine; is good soil; is well watered and has a fine grove or park and joins a good town. A rare opportunity. Don't miss it. Write for particular and list of farms. Spears Realty Co., Ottawa, Kansas.

DO IT TODAY. Write C. W. Hinnen of Holton, Kan., for some information regarding 5, 10, 20 and 40 acre tracts joining Holton, Kan. He has some of the best improved and unimproved tracts in the state. These tracts lay within a mile of town. Write today. **C. W. HINNEN, Box 143, Holton, Kansas.**

LOOK READ ACT. 160 acres, 11 mi. town smooth, level and beautiful. Good rich soil, adapted to the raising of all kinds of small grains. Land in same vicinity sells at \$15 per acre. up. **BUT LISTEN!** \$12.50 will buy this, \$500.00 cash, make your own terms on the rest. A beautiful residence lot in Plains will be given the purchaser FREE. Who wants it? **COONS & JACOBS, Plains, Meade County, Kansas.**

MONEY MAKING BARGAIN. 350 a., between two railroads two miles from each. 90 a. creek bottom, some good timber, new 8 room house, closets and cellar, Bell phone, good barn and numerous outbuildings. This is a money maker. Price \$45 per a., \$3,000 cash, bal. at 6 per cent. **CHANUTE R. E. CO., 19 S. Highland, Chanute, Kan.**

FINE STOCK FARM. 560 a., in cultivation, 150 a. in meadow, remainder in good pasture; 5 room house; nice barn 106 ft. long, 30 ft. wide; other buildings; good well; orchard; on rural route 3 miles to shipping point and 5 1/2 miles of Fredonia, the county seat, a flourishing city of 3 railroads and abundance of natural gas; very healthy and nicely located. Will take \$32.50 per a. if sold by August 1. Good terms. Address **OWNER, Lock Box 920, Fredonia, Kansas.**

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

LAND IN FORD COUNTY and the Southwest at \$4 per acre up. Wheat lands a specialty. **BROWN & VEERNON, Dodge City, Kansas.**

FORD COUNTY wheat and corn lands; rich, deep loam; \$12.50 per acre up. We co-operate with live agents. **WILSON & WRIGHT, Dodge City, Kansas.**

A BARGAIN—Fine improved section five miles from county seat, \$70 per acre, 1-3 cash; new modern house, fine barn; 160 a. fenced with woven wire; 600 a. under cultivation. Correspondence invited. G. W. Grandy, St. John, Kansas.

\$35 PER ACRE for 440 a. ranch; 3 mi. from town; well improved; best limestone soil. Other bargains. Write for list. T. B. GODSEY, Emporia, Kansas.

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

Fine Stafford County Ranch at \$25.00 per acre. Write for particulars. **A. L. McMILLAN, Stafford, Kansas.**

Do You Want To Sell Your Farm? It is my business to help find buyers for farms. I charge nothing for telling you how I work. If you hire my help the cost is very little. Write me for my plan. **E. L. GARVER, Box 142, Topeka, Kan.**

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

GET A HOME. 160 acre farm 2 1/2 miles of R. R. town and 5 miles of county seat, 10 a. in cultivation, 40 a. pasture, 10 a. mow land, 6 a. orchard, 5 a. alfalfa, good 6 room house, small barn and granaries, all fenced, 2 fine wells of water, fine grape vineyard, 3/4 mile to school, farm drains well. Price \$7,000. Immediate possession. One-half cash will handle this. Write for our land list. **BATES REALTY CO., Medford, Oklahoma.**

INDIAN LANDS! 50,000 Acres of rich black corn land in EASTERN OKLAHOMA for sale, trade or rent. Write **ALLEN & HART, Owners 308 Commerce Bldg., Kansas City, Mo. And Claremore, Okla. Agents Wanted.**

LOWER PECOS VALLEY IRRIGATED LANDS In West Texas is absolutely the best location for safe and profitable investment in America. 40 acres will provide an ideal home and a yearly income of \$3000 to \$5000. Development has only fairly started and present values will double and treble in price within two years. We own or control the sale of the best dependable irrigated lands which we can sell in tracts to suit at from \$50 to \$100 per acre, water rights fully paid, on easy terms, or we can supply sections of artesian or shallow pumping well lands at \$5 to \$10 per acre. For productive-ness and all the year climate the Pecos Valley is unsurpassed. Let us know your wants and we will supply detailed information. Address **THE HEATH COMPANY, 100 West Seventh St., Topeka, Kan.**

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

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

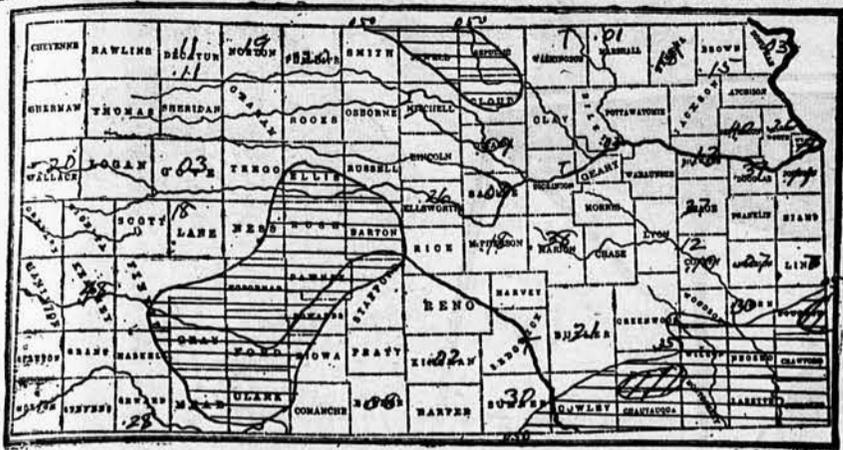
FOR SALE—COLORADO LANDS Improved, Irrigated Farms, Cheap Lands. Fruit Tracts and City Property at prices that are right. Terms to suit. **C. C. COLE, Boulder Colorado.**

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

HOLLY, COLORADO I own 1,500 a. in various sized tracts, all in cult.; good buildings and other improvements, with old established water down. Will sell any tract on small payment down. bal. in 10 years at 6 per cent. Plenty of water all the time and best of land. This, within 3 mi. of town. Come out and see this. You will not be disappointed. Best reasons for selling. You pay no commission when dealing with me. **J. S. McMURTY, Holly Colo.**

KANSAS CROP REPORT

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



UNITED STATES WEATHER OBSERVER'S REPORTS BY COUNTIES.

INCHES:
SCALE IN



Less than .50. .50 to 1. 1 to 2. 2 to 3. Over 3. T. trace

Allen—Soll very dry. Rain much needed. Anderson—Hot and dry. Everything suffering for rain. Barber—Dry and hot. Some damage to early corn. Late corn doing nicely. Barton—Wheat, oats and barley harvested. Weather hot and dry. Bourbon—Showers greatly revived grass and late potatoes. Corn looks fine. Brown—Light rain on 28th. Corn not badly injured. Oats being harvested. Potatoes injured. Butler—Very dry. Corn looking well. Rain much needed. Prairie grass very short crop. Clark—Hot wind. Good harvest in north part of county. Spring crops good. Coffey—Corn beginning to show effects of dry weather. Oats about all harvested. Very short and poor quality. Stock water very scarce. Decatur—Hail in parts of county on 26th. Corn still growing. Some wheat being cut, quality good, but light. Must have rain. Dickinson—Corn materially hurt. Wheat good. Doniphan—Hot, dry week. Oats damaged. Corn and pastures suffering for rain. Elk—Corn doing well. Oats poor. Ellsworth—Cutting wheat. Corn looks well yet. Gove—Hot, dry and windy. Greenwood—Stock water scarce. Wheat threshing. No alfalfa. Harper—Corn somewhat damaged. Only 15 rain in June. Jefferson—Two light showers during the week. Corn clean and looking good, but needs rain. Fine wheat crop. Potatoes valuable. Jewell—Nice rain this week. Very warm. Corn looks well. Oats being harvested. Johnson—Drouth continues. Small precipitation cooled air. Corn only crop left and needs rain. Pasture, gardens, potatoes and oats gone. Wheat two-thirds crop. Kearney—All vegetation suffering for rain. Oats, barley and wheat too short to gather. Kingman—Hot and dry. Wheat and oats cut. Lane—Dry and hot. Forage crops burning up. Pastures dry.

Leavenworth—Corn still all right. Cherry crop unusually large. Hog cholera successfully checked. Linn—Still dry and hot. Corn holding its own. McPherson—Light showers. Corn holding up well. Threshing begun. Wheat yield fair. Marion—Dry and hot. Corn looking well. Potatoes gone. Marshall—Very dry. Threshing. Corn holding up well. Hay and pastures badly damaged. Nemaha—Hot and dry. Light showers. Wheat all harvested. Oats being cut with mower. Corn slightly damaged. Timothy and clover about one-fourth crop. Alfalfa cutting next week. Norton—Corn and kafir standing heat well. Ottawa—Wheat harvest completed. Oats too short to bind. Corn standing drouth very well. Early apples on ground. Need rain very badly. Pawnee—Nice rain on 27th. Corn in good condition. Harvest over half done. Rice—Hot and dry. All gardens gone. Corn commencing to burn. Wheat about all cut. Need rain. Phillips—Hot and dry. Wheat about harvested. Corn still hanging on. Riley—Most corn in good shape. Must have rain soon. Pasture burned. Saline—All crops suffering, but corn is holding out. Sedgwick—Light showers. Wheat 15 to 20 bushels. Corn holding its own. Stafford—Wheat harvested. Corn looking well. Fruit damaged. Sumner—Corn doing well. Oats light, all cut. Alfalfa not in good shape. Potato crop total failure. Wallace—Corn doing fairly well. Range grass short. Alfalfa very good. Kafir and cane coming nicely. Wheat and barley good. Washington—Corn standing weather well. Rain in a week or two will make good crop. Wyandotte—Soll very dry and needs rain badly. Very little rain since April 11. Corn suffering less than any other crop.

- Nov. 14—F. W. Barber & Son, Franklin, Neb.
- Nov. 15—A. P. Wright, Valley Center, Kan.
- Nov. 15—W. Jones, Solomon, Kan.
- Nov. 16—Miller & Manderschied, St. John, Kan.
- Nov. 17—J. F. Ware, Garfield, Kan.
- Nov. 18—George W. Roberts, Larned, Kan.
- Jan. 23—T. J. Meisner, Sanatha, Kan.
- Jan. 24—A. L. Albright, Waterville, Kan.
- Jan. 25—J. H. Hamilton & Son, Guide Rock, Kan.
- Feb. 27—A. C. Lobaugh, Washington, Kan.
- Feb. 28—T. J. Charles, Republic, Kan.
- Feb. 8—H. C. Granger, Lancaster, Kan.
- Feb. 8, 1912—George M. Hull and Col. C. E. Bean, Garnett, Kan.
- Feb. 9—W. E. Willey, Steele City, Neb.
- Feb. 12—Oak Hill Stock Farm, Esbon, Kan.
- Feb. 16—J. H. Harter, Westmoreland, Kan.
- Feb. 17—A. R. Rystead, Mankato, Kan.
- Feb. 20—R. M. Bunnell, Atchison, Kan.
- Feb. 20—E. E. Logan, Beloit, Kan.
- Feb. 21—W. A. Prewett, Asherville, Kan.
- Feb. 22—C. W. Jones, Solomon, Kan.
- Feb. 23—J. J. Hartman, Elmo, Kan.
- Feb. 27, 1912—L. R. McClarnon, Bradyville, Iowa.
- March 6—T. M. Willson, Lebanon, Kan.
- July 26—E. W. Davis & Co., Glenwood, Mo. Bred sows.
- Oct. 9—E. W. Davis & Co., Glenwood, Mo.
- Oct. 17—Pearl H. Pagett, Beloit, Kan.
- Oct. 21—M. T. McBride, Parker, Kan.
- Nov. 3—Grant Chapin, Green, Kan.
- Nov. 2—Frank Elder, Green, Kan.
- Nov. 7—W. E. Monasmith, Formosa, Kan.
- Jan. 30—Ward Bros., Republic, Kan.
- Jan. 31—W. E. Monasmith, Formosa, Kan.
- Feb. 1—Geo. Phillippi, Lebanon, Kan. Sale at Esbon, Kan.
- Feb. 7, 1912—Frank Elder, Green, Kan.
- Feb. 2—Rinehart & Son, Smith Center, Kan.
- Feb. 3—W. C. Whitney, Agra, Kan.
- Feb. 12—J. O. Hunt, Marysville, Kan.
- Feb. 14—Thompson Bros., Garrison, Kan.
- Feb. 15—Grant Chapin, Green, Kan.
- Feb. 27—W. T. Fitch, Minneapolis, Kan.
- Feb. 28, E. P. Flanagan, Chapman, Kan.
- Oct. 18—J. N. George, Hopkins, Mo.
- Oct. 25—R. W. Gage, Garnett, Kan.
- Oct. 28—Arthur Mosse, Route 5, Leavenworth, Kan.
- Oct. 30—D. R. Champlon, Raymore, Mo.
- Nov. 4—George O. Clark, Wilcox, Neb., and O. W. & E. Holtquist, Sacramento, Neb. Sale at Holdrege, Neb.
- Aug. 17—Chas. E. Sutton, Lawrence, Kan.
- Frank Elder's Col. Durocs. Frank Elder, proprietor of the Highland herd of Durocs located at Green, Clay Co., Kan., starts his advertising this week. Mr. Elder has the highest priced herd in Kansas. His principal herd boar at this time is G. C.'s Col., King of Cols 2d having died last winter. G. C. Col. is assisted by F. E. Col. and a good son of Nebraska Wonder. Mr. Elder has an outstanding herd of sows and devotes his entire time to the breeding business. Write him about a bred gilt or pair of pigs not related, mentioning Kansas Farmer.

FIELD NOTES

- Wayne Devine.....Topeka, Kan.
- Jesse R. Johnson.....Clay Center, Kan.
- W. J. Cody.....Topeka, Kan.
- PURE BRED STOCK SALES.
- Percherons. Nov. 14-15.—H. G. McMillan & Sons, Rock Rapids, Ia.
- Feb. 6-7.—H. G. McMillan & Sons, Rock Rapids, Ia.
- Holstein-Friesians. Feb. 7-8.—H. C. Glissman, Station B., Omaha, Neb.
- Herefords. Nov. 10.—Thos. Crawford, Butler, Mo.
- Nov. 11-18.—G. W. Newman, Emporia, Kan.
- Poland Chinas. Sept. 26—Ben. M. Bell, Beattie, Kansas.
- Sept. 28—J. D. Willifong, Zeandale, Kan.
- Sept. 26, B. M. Bell, Beattie, Kansas.
- Oct. 7—J. B. Dillingham, Platte City, Mo.
- Oct. 3—A. J. Swingle, Leonardville, Kan.
- Oct. 3—L. R. McClarnon, Bradyville, Iowa.
- Oct. 4—S. A. Bugg, Hamilton, Mo.
- Oct. 5—J. C. Saiter, Jasper, Mo.
- Oct. 10—W. H. Emens, Elddale, Kans.
- Oct. 11—S. A. Hobson & Son, King City, Mo.
- Oct. 14—T. J. Dawe, Troy, Kan.
- Oct. 16—A. R. Enos, Romona, Kan.
- Oct. 16—Oak Hill Stock Farm, Esbon, Kan.
- Oct. 17—S. N. Hodgson & Son, Parker, Kan.
- Oct. 18—Geo. M. Hull, Garnett, Kan.
- Oct. 18—W. E. Long, Meriden, Kan.
- Oct. 19—J. J. Hartman, Elmo, Kan.
- Oct. 19—J. E. Bundy, Goodrich, Kan.
- Oct. 19—Dietrich & Spalding, Ottawa, Kan.
- Oct. 20—Roy Johnston, South Mound, Kan.
- Oct. 20—Geo. W. Smith, Burchard, Neb.
- Oct. 21—A. R. Rystead, Mankato, Kan.
- Oct. 23—Herman Gronniger & Sons, Bendena, Kan.
- Oct. 24—W. F. Fulton, Waterville, Kan.
- Oct. 24—A. P. Young, Lexington, Mo.
- Oct. 25—T. J. Meisner, Sabetha, Kan.
- Oct. 26—W. B. Van Horn, Overbrook, Kan.
- Oct. 26—W. R. Webb, Bendena, Kan.
- Oct. 27—Baker Bros., Butler, Mo.
- Oct. 27—J. C. Halderman, Burchard, Neb.
- Oct. 28—J. O. James, Bradyville, Iowa.
- Oct. 30—J. H. Harter, Westmoreland, Kan.
- Nov. 1—M. T. Williams, Valley Falls, Kan.
- Nov. 1—H. B. Walter, Effingham, Kan.
- Nov. 2—H. C. Granger, Lancaster, Kan.
- Nov. 4—T. M. Willson, Lebanon, Kan.
- Nov. 6—J. E. Bowser, Abilene, Kan.
- Nov. 7—H. J. Griffiths, Clay Center, Kan.
- Nov. 8—Verny Daniels, Gower, Mo.
- Nov. 8—L. E. Klein, Zeandale, Kan.
- Nov. 8—C. R. Palmer, Peabody, Kan.
- Nov. 8—W. A. Prewett, Asherville, Kan.
- Nov. 9—Young & Kimberling, Glasco, Kan.
- Nov. 11—P. L. Ware & Son, Paola, Kan.
- Nov. 13—Walter Hildwein, Fairview, Kan.

HARD BURNED FARM DRAIN TILE

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

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

ANDERSON COUNTY—268 acres, 64 acres in cultivation, 25 acres mowland, balance pasture, 10 acres fenced hog tight. Plenty water. Six-room house, new barn 46x50 and other improvements. Six mi. to Garnett, 3 miles to Bush City, 1/2 mile to school. Price \$85. This is a bargain. Geo. W. Her & Sons, Garnett, Kansas.

\$35 AO \$60 PER ACRE.
Improved farms—Montgomery Co.
FOSTER BROS., Independence, Kans.

347 ACRE FARM
3 sets of improvements, close to town. Price \$70 a. Incumbrance \$6,000. Want land not farther west than Ness Co. for equity. Describe fully.
A. M. SPEARS, Ottawa, Kans.

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

SALINA CO. BARGAIN of 80 a.; all in cult.; 7-rm. house; near Salina; price \$3,750. Terms to suit. Cave Realty Co., Salina, Kan.

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

J. C. Stalter's Polands. On October 5 J. C. Stalter of Jasper, Mo., is planning to pull off one of the best sales ever made in this part of the country. Mr. Stalter has the largest smooth Polands and they are now looking fine. Remember the date and see that your name is on the list for a catalogue.

W. F. Houx of Hale, Mo., is offering 50 head of choice, big type, Poland China pigs farrowed in March and April. The pigs offered by Mr. Houx at this time were sired by two extra large, heavy boned, high class boars and are the best lot Mr. Houx has ever offered. They are ready to ship and he is selling them worth the money. He is also offering a few roan shorthorn bulls sired by King Challenger 312640, a son of White Hall King 227274. These bulls are good ones and Mr. Houx is pricing them reasonably.

S. A. Bugg of Hamilton, Mo., one of Missouri's oldest and most extensive breeders of Poland China hogs, has a very fine lot of early pigs this year sired by his three famous herd boars Grand Look 2d, a 2-year-old, 700-pound boar, sired by Grand Look, dam Expansion Lady, by old Expansion; King's Best, a 500-pound yearling boar sired by the famous Long King, dam Mammoth Giantess 3d and, What's Wanted, a 550-pound yearling boar sired by Blue Valley Quality, dam Blue Valley Quality 2d. Mr. Bugg now has a herd of 300 head and breeders will find them a very fine lot of big boned, well finished hogs.

STOP RENTING

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

**A NICE HOME—262 acres, smooth and level, 175 acres wheat all goes large new house, 9 rooms, large granary, chicken house, stable, etc., well, windmill and tank; one mile to Catholic school and church, 1 1/2 mile to high school and Spearville. One of the best farms around Spearville. Come and look it over.
STINSON & SHELDON, Spearville, Kansas.**

THREE 80's in Reno Co., best of wheat and alfalfa land, 1-3 of crop goes if sold soon at \$135; terms to suit; a bargain. Also one quarter sec., 1 mi. to school and church (Catholic); 4 miles of railroad station; good improvements and good land. For a short time at \$75 per acre. Terms to suit. M. J. Hillger, Garden Plain, Kansas.

A BUTLER COUNTY BARGAIN. Crops Never Looked Better. 160 a. 5 mi. town, all good soil, 125 cultivated, balance pasture and meadow. Two sets improvements. A snap for a short time at \$55 an acre. Send for full description. Kansas Map and new land list free.
JAS. A. THOMPSON, Whitewater, Kansas.

YOU'LL LIKE LINN COUNTY, KAN. We have abundant coal, wood, natural gas and good water. The land raises magnificent crops of alfalfa, timothy, clover, bluegrass, oats, corn and wheat. R. F. D. and phone at your door. Price \$20 to \$80 per acre. List free. A. E. ROOT, Pleasanton, Kan.

King of Cols 2d, dam Brightness by Model Chief Again. K. C. Col. is one of the big boned class and weighed 650 pounds at 2 years old, when in breeding condition. As a breeder this boar has a fine record, and Mr. Vivian has a fine lot of show prospects this year sired by this boar.

F. E. Muller's Polands. F. E. Muller, a well-known Poland China breeder of Hamilton, Mo., has a very fine lot of big Poland China pigs this year and will offer the best lot at his fall sale that he has ever sold, and he has sold some good ones. Mr. Muller is offering a number of extra-fine spring boars, all of them excellent prospects, and he is pricing them reasonably. He is also breeding Guernsey cattle and at present is offering his fine herd bull for sale. This is a splendid individual with a good breeding record and will be sold worth the money.

Green Lawn Stock Farm. The writer called last week at the Green Lawn Stock Farm, owned by A. J. Erhart & Sons of Adrian, Mo. We ask our readers to look up the card of Erhart & Sons and write them about their Poland Chinas. They have a choice bunch of spring boars and gilts sired by the following herd boars: A Wonder, Big Spot, Pawnee Blain, Major B. Hadley and Giant Wonder. The spring pigs are well grown out and many of them are extra good. If you need a young boar or a choice gilt of the large type breeding don't fail to send your order in early. Kindly Mention Kansas Farmer.



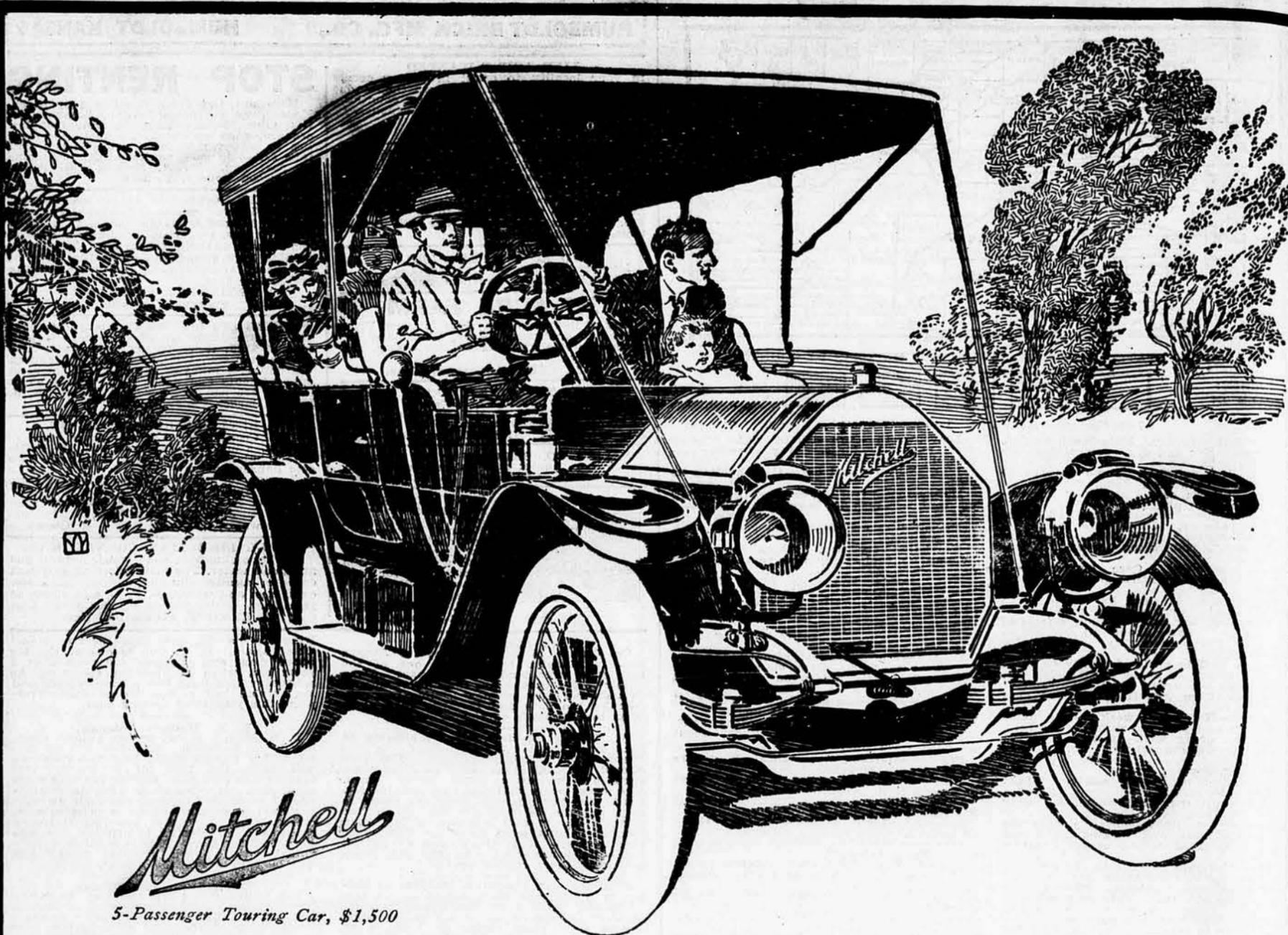
O. I. C.'S BRED AND OWNED BY J. N. GEORGE, HOPKINS, MO., WHO HAS A LARGE NUMBER OF THIS KIND FOR SALE.

A Cheap Sheep Dip and Fruit Tree Spray. An increasingly large number of stock raisers and fruit growers throughout the country are learning that a most effective and very cheap germicide solution can easily and quickly be prepared by mixing a can of Merry War Lye with 15 gallons of water. This solution is equally effective when used as a sheep dip and for treating sheep foot disease or for spraying fruit trees, shrubs and vegetables. In the former case it quickly and thoroughly kills all lice and ticks on the sheep; cleans the wool, makes shearing easy and produces a soft, silky fleece. As a fruit tree spray it instantly destroys all pernicious insect life without the slightest injury to the leaves and buds. When applied to the trunks of fruit trees with a whitewash brush it destroys borers and other worms and insects, cleans the bark of scales and makes the trunk smooth. Fruit growers also say that the solution is very beneficial to the soil and does much to stimulate the growth of plants and trees.

Richly Bred Jersey Bull Calf. Johnson & Nordstrom, proprietors of the Golden Rule herd of Jersey cattle located at Clay Center, Kan., have an advertisement in this issue offering for sale a very richly bred 6-weeks-old Jersey bull calf. The calf was sired by the herd bull Omeris Eminent, a Golden Lad bred bull, and its dam is a daughter of the world's fair prize winning bull Silvering's Lad. This calf can be bought cheap if taken at once.

Stockwell Bull For Sale. S. S. Smith, proprietor of one of the best little Jersey cattle herds to be found in Kansas, has an advertisement in this issue in which he offers for quick sale a yearling son of the noted Kinloch Farm bull Beatrice Stockwell, by Imp. Stockwell, and out of the noted cow Golden Beatrice. The dam of Mr. Smith's bull is a very richly bred cow, purchased at Kinloch Farm. The young bull is solid color and a good individual. Mr. Smith reports a very prosperous year in the Jersey business. The demand has been greater than he was able to supply. Mr. Smith owns the cow Guenons Sillie M., with a 9 per cent test, made by the state dairy commissioner when she was 140 days in milk. This great cow has a very choice bull calf, sired by the Golden Lad bred bull, Omeris Eminent. Most of the other young calves, a very large per cent of which are heifers, are by the bull Dondelas Jewell. Mr. Smith has one of the finest bunches of yearling heifers that can be found anywhere. These are by such sires as Beatrice Stockwell, Blingettas Last and other bulls of note. Mr. Smith will also price a few cows and heifers. Write him at Clay Center, Kan.

Vivian's Duroc Jerseys. J. M. Vivian of Bosworth, Mo., is the owner of one of Missouri's best Duroc Jersey herds and the 100 head of spring pigs of the herd are one of the finest lots of youngsters that the writer has inspected this season. They are uniform in size, color and class, big boned, growthy pigs, the type that make the big, high-class hogs. A herd of Improver 2d, Gold Finch, Oom Paul and Tip Top Notcher sows, a high-class lot of individuals, make up one of the best sow herds in Missouri. Among the lot is Lady Gold Finch 115032, sired by Milton Orion 28823, Harding's pride 227568, sired by Ohio Chief, and others equally good. At present Mr. Vivian has at the head of his herd K. C. Col. 105259, sired by



Mitchell

5-Passenger Touring Car, \$1,500

Ask the maker of the high-priced car to tell you, *on the square*, why he doesn't reduce his price to *somewhere* near its actual value. If he's on the square, he'll answer: "Too late now. It would be a confession of weakness. We don't dare."

In other words, he has educated you to believe that *price* means *quality*, and if he jars your dreams he'll lose his business. Did he make his price high originally with the idea in mind that if he ever was forced to reduce he could lop off a thousand or so and still have a fat profit left? Anyhow, that's what he can do any time he wants to, and the chances are you'd hurt yourselves grabbing for his car. He holds up his prices, on the contrary, because he knows you'll pay them.

When *we* started to build cars eight years ago, *we* could have used the high-profit plan and gotten away with it easily, only it happens that this concern has been dealing with the American public for 77 years *on the honor plan*. The Mitchell Farm Wagon is known to nearly every farmer in America, and he is familiar with its honest materials, honest workmanship and honest price. Well, the same institution—and its descendants—are making Mitchell cars and they are selling them on the same basis as they sold farm wagons.

We couldn't double our prices today very well because you've been educated to believe that Mitchell cars mean reasonable prices and legitimate profits. But that high-priced man can cut his prices in two and still make more money than we do. You can argue until you are gray on this subject; but truth is truth, and always will be.

The high-priced man can afford to fill your car with beautiful accessories—fill it so full that you can't find room to sit down—and include them in the list price, but he doesn't look at it that way. He believes in making hay while the sun shines. If we doubled our prices on you today we'd be taking money from you that we're not entitled to, and even at the prices we charge we're giving you as fine materials as the other fellow with his high-priced car. And this is so absolutely true that you needn't look for any denial.

More than this: Mitchell cars reach you fully equipped, ready for instant use, and the equipment is included in the list price. Not only that, but we have a Make-Good policy that is so far ahead of that one year's guarantee that there is no comparison. We state definitely what we will do, and then we do it if the occasion arises. But the guarantee states that it will do anything and everything that you ever want done.

The Mitchell equipment includes magneto, top, five lamps, generator, horn, jack and complete set of tools. So that when your Mitchell arrives you don't have to rush to some high-profit supply man and spend from \$150 to \$200 extra on equipment. The Lord knows, if there is such a thing as an honor car, the Mitchell is the one.

Then, *what are you going to do about it?*

Prompt deliveries guaranteed. All prices F. O. B. Racine. Send for advance circular No. 32 B

Mitchell Six, 7-Passenger, \$2,250; Mitchell 5-Passenger Touring, \$1,500; Mitchell Roadster, \$1,200

THE CAR YOU OUGHT TO HAVE AT THE PRICE YOU OUGHT TO PAY

SILENT AS THE FOOT OF TIME

Mitchell-Lewis Motor Co.
Racine, Wis. U.S.A.

Branches:
Philadelphia, Dallas, Atlanta

Europe:
London and Paris