

KANSAS FARMER

FOR THE IMPROVEMENT

OF THE FARM AND HOME



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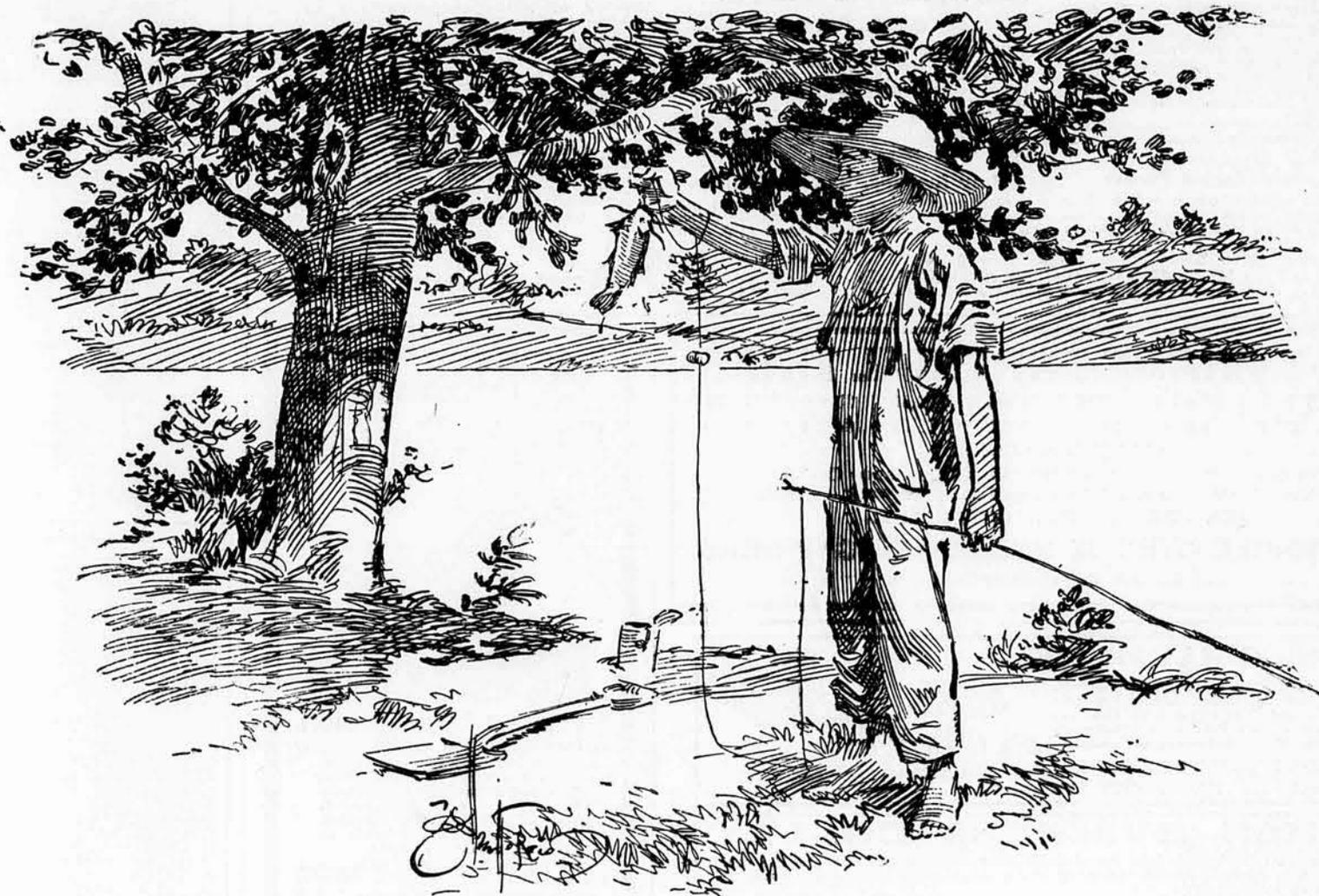
ONE of Kansas' greatest assets is the bullhead. His money value is small, he does no work and he is so ugly his face hurts.

But to the barefoot boy, released from chores or school, who sticks his pole in the bank, spits on his bait, drops the liver to the bottom and then sprawls contentedly watching the cloud ships drift in vast argosies while he gathers dreams—and chiggers, he is an unfailing delight.

To the hard bit man of affairs who works on the high gear, thinks in bed, don't know how to relax and forgets to smile, the bullhead is a blessing. He entices to the leafy woods where the brook and river meet, instils new vigor into blood and brain and substitutes the lyric of the country for the tragedy of the town.

Relaxation is a necessity and as its source the bullhead pays dividends—while the worms last.

—I. D. G.

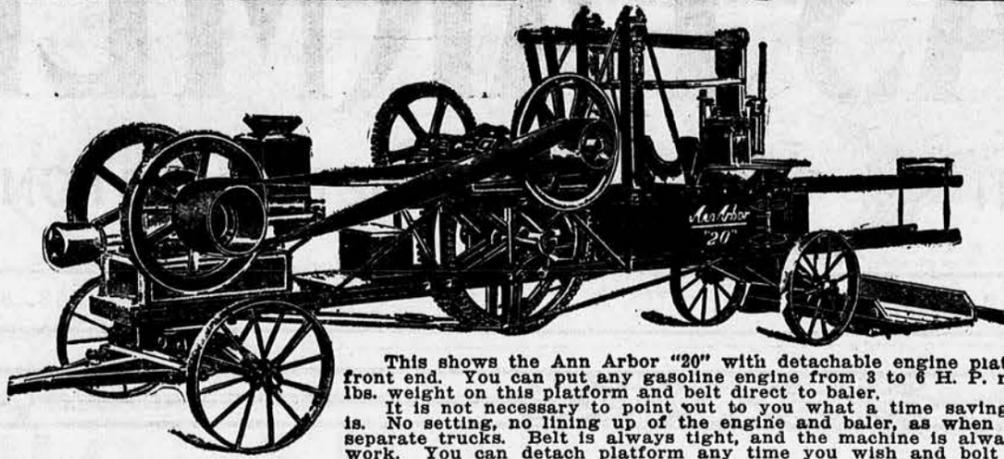


Oh You Bullhead!

Ann Arbor "20"

"THE BALER FOR BUSINESS"

The Baler Sensation of the Year



This shows the Ann Arbor "20" with detachable engine platform on the front end. You can put any gasoline engine from 3 to 6 H. P. not over 1800 lbs. weight on this platform and belt direct to baler. It is not necessary to point out to you what a time saving device this is. No setting, no lining up of the engine and baler, as when engine is on separate trucks. Belt is always tight, and the machine is always ready for work. You can detach platform any time you wish and bolt on the rear axle to the platform then you have a portable engine for any other work about the farm.

A New Baler—Light in Weight—Low in Price

The Ann Arbor "20" is a baler that is built especially for you, Mr. Farmer. Strictly speaking, it is a horse press of large capacity, geared to be operated by a small engine. It is adapted for either stack or windrow baling. It is big enough to bale your crop and bale it quickly, at low expense for help. It will make money for you at every turn of the wheel. Bales 12 to 20 tons of alfalfa a day and keeps it in best condition.

WHAT FARMERS WROTE US.

"Can't you make us a press that we can operate with a 3, 4, 5, or 6 H. P. engine?" wrote farmers everywhere. The Ann Arbor "20" is a response to this demand.

It is a new press, but it is backed by the 25 years of experience and reputation of the world's largest exclusive hay press builders. You get the best of its class when you buy the Ann Arbor "20." It is positively and definitely guaranteed.

The Ann Arbor "20" can be operated by gasoline engine. Four to six horse-power stationary engines will give you splendid results. You can take your engine, put it on a platform, and bale just as hard and as fast as you please, provided your engine is not in excess of 6 H. P.

The Ann Arbor "20" makes it possible to own your own baler, and do your own baling. Bales 60 to 100-pound bales. Ties 2, 2 1/2 or 3 feet.

The Ann Arbor "20" is simple in construction but extra strong. All surplus weight has been trimmed off, and yet it has great strength where great strength is needed; every point is doubly protected. The materials throughout are evenly distributed so that in endurance and strength the Ann Arbor "20" equals ordinary balers twice its weight.

The Ann Arbor "20" has all the salient features of our famous Columbia Ann Arbor Baler.

Patent Quick-Return Feeder

gives the man ample time to get the hay under the feeder in perfect safety; comes back quickly, drops slowly. This feature

alone is sufficiently important to make you give the Ann Arbor "20" the preference. It is acknowledged by all farmers, from California to Maine, to be the best constructed and most efficient, safest feeder on the market—simplest in operation; no chance to get out of whack, because there is nothing to "get out of whack."

Feeder-Head Made Especially for Alfalfa.

The Feeder-head of the Ann Arbor "20" press is made especially for alfalfa. Has our patent block-dropper, the same as the Columbia—the most efficient and effective block-dropper ever built. You who have baled alfalfa with other style presses, will see at once the wonderful advantage that the new Ann Arbor "20" gives you.

Large Feed Opening.

The feed opening of the Ann Arbor "20" is much larger than that of ordinary presses. This is another great advantage in baling alfalfa, because it prevents the leaves and stalks from breaking up.

Special Pittman.

The Pittman on the Ann Arbor "20" is of channel iron with unbreakable heads. You cannot put the Ann Arbor "20" out of business no matter how hard or fast you work it.

The bull or Pittman wheels are large, giving more than ordinary power to the press without exacting any more power from the gasoline engine.

Easy Running, Durable Gearing.

The gearing is of our own special pattern and construction—wonderfully strong and easy running. Made in our own foundry.

dry from a special mixture of pure gray iron and steel, giving the teeth just the right temper for long service and great durability.

The bearings throughout are provided with dope cups, making it easy to keep every part well lubricated.

Get Complete Details.

But, we cannot cover all the points of advantage possessed by the Ann Arbor "20" here—we want to send you complete literature fully describing its many points of merit and showing all the details. Write for our circular on the Ann Arbor "20" and learn all about this new Ann Arbor Baler.

Largest Exclusive Builders.

We build by far the largest percentage of steam and gasoline operated presses sold in the country. We have been building hay presses for 24 years and operate the largest exclusive hay press factory in the world. All this means that when you buy an Ann Arbor you get the direct benefit of concentrated experience and careful study of baling conditions—you get a press that is "built for business." Ann Arbor machines are sold by the leading implement dealers everywhere—such as John Deere Plow Company, Parlin & Orlandorf Co., and others.

Ann Arbor Balers are famous for simplicity and economy the world over. This—the Ann Arbor "20"—is a chip of the old block.

If you want a larger press, investigate the ANN ARBOR "35." There is nothing better made. Great capacity, great durability, and wonderful economy of operation are special features.

Remember, before you buy any press—get the facts about the new Ann Arbor "20."

Ann Arbor Machine Co. BOX 404 Ann Arbor, Mich.

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| 30 x 3 | 9.50 | 32 x 3 1/2 | 14.85 | 32 x 4 | 21.25 | 34 x 4 | 22.75 |

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Pure Bred Stock and Large Farm Sales a Specialty.

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As a Human Remedy for Rheumatism, Sprains, Sore Throat, etc., it is invaluable. Every bottle of Caustic Balsam 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 circular, testimonials, etc. Address
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This wonderful little volume could not be bought any price. It is the work of the best building and practical cement workers in America. Send FREE to every farmer who asks for it. Just send name on a postal card and the Plan Book will be sent.

Sunflower Portland Cement is a fine cement powder of great strength and quality. Every sack is guaranteed to have been tested to repeated tests showing a compressive strength transverse strength that cannot be excelled by any cement on the market. We will show you how to use Sunflower Cement at home and see for yourself. Sunflower Cement is sold by all the leading lumber building material dealers. Send for the Plan Book to United Kansas Portland Cement Co. 829 Commerce Bldg., Kansas City, Mo.

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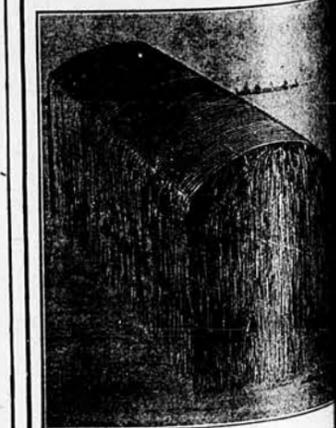
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KANSAS FARMER

EDITORIAL

A GOOD EXAMPLE.

An excellent way in which to attract immigration to a state or locality is by attracting attention, and this can only be done by advertising in some way.

The Texas Industrial Congress, with the aid of local commercial clubs, merchants and others, is offering cash prizes to the amount of \$30,000 and merchandise prizes worth \$100 more for exhibits of farm and home products. Naturally corn and wheat take the first places and receive the largest amounts, but all others are well cared for. At present, there are some 10,000 contestants entered for these contests and the result is to be a large crowd of both farmers and other people, each one of whom goes home as a missionary to the big displays and the excellent quality of Texas products. Without some such display the residents do not know what their own state produces. With it they learn each who sees will write or tell to some friend, and thus is established an endless chain of advertisers who work for the welfare of the state.

The state fair is the natural place for such exhibits and preparations should be made for it, not only by those who expect to exhibit and carry away some of the prizes offered, but every citizen who should support an institution by his presence in knowledge that it has large dividends in store for him.

A CATCH CROP.

The peculiar weather conditions of the spring have given rise to some business in the minds of farmers in the sections and they are even re-ported to be plowing up the wheat in the idea of planting corn instead. This suggests the idea already alluded in these columns, that some of the sorghums may be used to advantage on almost every Kansas farm as a "sheet anchor" against the uncertainties of climate but in emergency it is almost invaluable. Kafir dwarf milo maize are perhaps the best, though other forms are good. For the eastern three-fourths of the state and milo for the western fourth as it will mature in the drier and drier lands where Kafir is not.

A grain crop is desired either of the sorghums may be planted as early as the middle of June and west-grown seed should be selected. They are designed for a forage crop and they may be planted as late as July 1. Proso or broom corn millet is a good late crop which may be planted between June 15 and July 15 and produce a good yield.

Kansas may be divided, roughly, into three zones for grain production though there is no well marked line between them. The corn belt which has been extending westward for years; the Kafir corn which is a good crop in the corn belt proper and which is a sure producer beyond its eastern border and the milo maize which will mature a heavy yield of grain or fodder further west than Kafir corn.

Because of their drought resisting qualities and their ability to yield heavily under conditions of scant moisture the sorghums and particularly the Kafir and milo varieties are growing in favor with each recurring season. They are the corn of the west and their feeding value is very nearly equal to that of maize. Nine pounds of maize is equal in feeding value to ten pounds of Kafir or milo. This being true, the farmer who plants these grains is on the safe side.

MUNICIPAL ADVERTISING.

In one mail comes advertising material from California, Calgary and Vermont that is issued by municipal authorities. In one case by a promotion bureau, in another by the city and in the third by the state itself. These are but examples of what is being done all over this broad land and we should show the value placed upon publicity by the more enterprising communities. Kansas lacks in this respect and the census returns showed considerable falling off in population during 1910 as compared with

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.

Kansas has greater opportunities to offer to homeseekers than are to be found in most states and these should be made known to those who are seeking new homes, whether it be done by state aid, municipal action or private enterprise. Kansas' record as an agricultural producer is hardly equaled in the west and she yet has plenty of good, cheap land to offer. There are few sections where climate, soil and social conditions combine to produce desirable residence environments as they do in Kansas, and yet there are thousands of hungry homeseekers who pass through this state each year, tempted by the advertisements that are issued by these municipal bodies.

It is only necessary to tell the truth about Kansas in order to greatly increase her population, but this truth must be told in such a way that it will be recognized as truth, and the best way to accomplish this is through some municipal or state agency.

KANSAS FARMER LEADS.

Your epigrammatic sentences published on the front page of the KANSAS FARMER for some time past are making your paper notable. These wise and comprehensive sayings exhibit you as a philosopher of a practical and valuable kind and I am very much interested in them.

The KANSAS FARMER is forging ahead in public estimation and soon may past the best of its fellows. In fact, I have come to read it with as much interest as I have read the great paper with which I have been most familiar for the past 15 years.

KANSAS FARMER is, by all odds, one of the greatest leaders among the practical, all-round agricultural papers of the United States. Your front page philosophy on the hog is very valuable indeed.—Thomas D. Hubbard, Kimball, Kan.

HIGHWAY IMPROVEMENT.

One of the best investments Kansas ever made was in the selection of an expert highway engineer who could give information and advice to the officers held responsible for the condition of our public roads.

The Extension Department of the Agricultural College employed an expert some time ago and his services have been extremely valuable to the people of the state. He has now issued a bulletin on highway improvement and the construction and main-

tenance of earth, sand-clay and oiled earth roads. Full information is given about the location of roads, limitations as to grades and instructions as to drainage. It is well understood now that the secret of success in road building of any kind is founded upon a proper system of drainage. Whether the road be of macadam, telford, gravel, cinders or earth, its permanency, no less than its usefulness, depends to a very large extent on the system of drainage which has been adopted in connection with its construction. The hard material used for surfacing roads is not the road itself but the metal adopted to prevent wear. The road must first be built and then a metal surface put on to guard against wear just as a tire is put on to protect a buggy wheel, although the tire is never thought of as being the wheel itself.

The bulletin in question covers the entire subject of road building, including bridges and culverts, and may be had by application to the Extension Department of the Agricultural College, Manhattan, Kan.

ROTATION, NOT SPECULATION.

One reason why market manipulators and speculators find their business so profitable comes through the action of the farmers in changing from one crop to another. When hogs get low on the market the farmer too often thinks that he can make more money selling his corn and he stops raising pigs. Almost before he knows it he finds that others have done the same and a great cry goes up that there is a shortage of hogs. Then the price rises and everybody goes into hogs again to help cut down the price by large production.

The same thing is true with cattle, wheat or corn but still they do it with never a thought that they are being "worked" and are doing just what the speculators want them to do.

The thing to do is to plant or breed a particular variety when the cost of seed is low and it does not cost much to get started. By doing this the high market will be reached far oftener than otherwise, but a much better thing to do is to inaugurate a system of rotation which will maintain and build up the farm and then vary the crops used in this rotation to suit the conditions.

Grow what the land is adapted to and rotate. In this there is a wide range of available crops from which to choose.

I want to add one to the compliments and congratulations that I know must be reaching you on account of the front page editorials in the KANSAS FARMER. In substance, they are a notable contribution towards the restoration to the farmer's calling, in public estimation, of the dignity and importance that belong to it. In form they are a rhetorical triumph in making so striking and impressive the themes, which, to those who lack the insight to appreciate their significance, are but trite and hackneyed. Keep it up.—W. H. Cowles, Holstein Breeder, Shawnee County, Kansas.

CITY MANURE TO THE FARMS.

In response to our suggestion in an editorial of KANSAS FARMER issue of May 26, on "Get City Manure," there have been received a good many letters from farmers who are undoubtedly interested and would like to take this matter up in earnest. One farmer from Coffey county writes that if he could get reasonable rates on the railroads and could then secure stock yards and city refuse that would not be so impregnated with weed seed as to take the farm he would be more than glad to purchase such manure in car load lots. Another farmer from Leavenworth county writes that he has been trying for five years to get hold of such manure in such a way that he can afford to use it on his place, and is desirous of further information.

Correspondence develops the fact that all the manure that is supplied by the Chicago Stock Yards has been shipped out for years past by the farmers of Illinois, Wisconsin, Iowa and Indiana, excepting only a small amount that is used by local truck growers and small farmers. In spite of the fact that the lands of these several states are considered among the richest in the country, their farmers have long appreciated the value of this manure and made use of it. Its value has been so highly appreciated that the railroads have found it to their advantage to build short lines into the more important agricultural districts in order to facilitate its delivery to the farmers.

The problem which has confronted the railroads heretofore has been one of the quantity which would be used of this material. It will not pay them to make special low rates unless there is sufficient demand to enable them to handle quantities of the material and thus make it worth while. There can be no question that there are vast quantities of street sweepings, garbage and refuse from the stock yards which is now either burned or dumped in unsightly piles that would be of immense value if distributed on farms within reach of the several cities where it is produced. Thus far we have been able to get exact information from only one railroad, and the quotations given by the officials of that road show that they are willing to haul such material in car load shipments with a minimum weight of 40,000 at the following rates: For 20 miles or less, 2 cents per 100 pounds; from 20 to 30 miles, 2½ cents; 30 to 75 miles, 3 cents; 75 to 100 miles, 4 cents; 100 to 150 miles, 4½ cents; 150 to 200 miles, 5½ cents and 200 to 250 miles, 6 cents per 100 pounds. The estimate given by this railroad official is that the cost of material and its loading at the shipping point will not exceed from \$5 to \$7.50 per car.

It is to be understood that this quotation is given for only one road, but it is entirely possible that all the other roads will be willing to make such rates in order to afford the farmers an opportunity to secure this material which is now simply a waste product, but to them would be of great value. Farmers are advised to communicate with their local railroad representatives as to detailed information.

There never was and there is not likely to be any serious duplication of the work of our great educational institutions. Even if there were such a thing it would be nothing to scare at. The great problem is to place the benefits of these schools within reach of the greatest number. As they never can reach all the people through the class rooms their great effort is now to make their benefits available through other means. Hence the extension departments and their great work.

Dr. Hopkins says: "From the beginning even until now, the American farmer in general has almost invariably followed the plan of working the land for all that is in it. He has practiced and still practices every expedient known to get the fertility out of the soil without making any adequate return." He also states that at the present increase of population we will have 200,000,000 in 1960, and that if our methods are not improved we will starve to death.

Hog Production On The Dry Farm



FOUR BREEDS OF HOGS RAISED AND FITTED ON WESTERN KANSAS PRODUCTS. THEY THRIVE IN THE WEST AND ITS FEEDS ARE ADAPTED TO THEIR USES.

In the discussion of the various phases of dry farming on the lecture platform and in the public press too few words and too little space has been given to the live stock phase of this great agricultural and economic question. In the practice of dry farming the neglect of the live stock proposition is far more evident. It has been the writer's privilege to observe and investigate dry farming conditions in many different states and territories. Everywhere owners and tillers of dry farming lands are placing the larger share of their efforts and attention, and in many communities their entire energies, toward the production of cash crops.

Though the lands come cheap and the cost of crop production is ordinarily low a great portion of our farmers exercise no moderation and do not hesitate to do their lands excessive injury by extracting the last possible cent of cash returns. Although the dry farmer claims to be a true conservationist in that he secures remarkable returns by controlling moisture conditions, he has yet to learn the need and value of conservation so far as fertility is concerned. It has been urged that the conservation of plant food is so much of a humanitarian proposition that the practical farmer cannot afford to so far sacrifice his immediate material interests. The results, however, of failing to conserve at least in a measure original land fertility come so soon and are so marked as to cripple within a few years the man who plans to develop a home in a dry farming area.

The lack of conserving farm practice in the so-called semi arid belt and the inevitable results are so patent that we may accept them as facts. Grain farming and grain farming alone then must go. In its place will come the combination of live stock production with general or specialized farming in the dry farming belts. By the use of live stock farm products are marketed more cheaply and in a much more concentrated form and with a loss of only one-tenth to one-fifth of the fertilizing value of crops consumed. The use of live stock permits crops to be marketed at a higher average price per bushel or per hundred, more evenly distributes farm work throughout the year, reduces and eliminates wastes, and give a permanency and stability to the farm and to its profitable cultivation obtained in no other way.

Of all classes of live stock none has been so completely ignored as the hog. He can assimilate a greater variety of feeds, use up more kinds of waste, reproduce more rapidly, be acquired and started as a herd more easily, be fed and marketed at a lower average cost and will prove more generally satisfactory to the farmer than any other class of meat producing animals.

Permanent improvements for housing and handling hogs are not expensive. Farmers of the great wheat belts of Washington and Idaho are finding hogs extremely profitable to consume the waste wheat left by the big combined headers and thrashers. A few of these fields are now being fenced hog-tight. For this purpose 26 inch woven wire is used at the bot-

Grain Production Supplemented With Hog Raising Doubles The Profits

By E. J. IDDINGS

tom and from one to three barbed wires above. The woven wire will cost from 26 to 32 cents per rod or near \$100 per mile, depending quite largely on local conditions such as freight rates, etc. In case the farmer can pasture his hogs he will find it a paying investment to erect such fences at least for small pastures.

For housing nothing more is needed than the colony house. These are made 8 feet square on the bottom and with wedge-shaped roof 8 feet long on each side. The distance from the ground to the comb of the roof is about 7 feet. A door 24 inches by 36 inches is provided for entering, and an opening 12 inches square in the back of the house near the peak of the roof for ventilation. No floor should be put in a house of this kind on the dry farm. In wet weather the house should be well bedded with straw or other litter, and litter supplied often enough to give the hog a

dry, warm bed. Drainage water is diverted by ditches about one foot deep around the house on the upper slope. Colony houses were used during the rainy and snowy season this year at the University of Idaho, which is located within 100 miles of the Canadian line. The ditches kept off all surplus water and the hogs remained warm and dry in these houses all winter. In most sections lumber and labor for building such a house will cost from \$9 to \$12. One house will provide room for 4 or 5 old sows and for 10 to 20 pigs and shoats.

In choosing breeds arguments are easily found for the various better known types and breeds. Space does not permit a full discussion, but no farmer can go wrong by selecting the Poland, China, Berkshire or Duroc Jersey.

The hog lends himself especially well to an economical system of dry farm management for the reason that

he is a remarkable scavenger and saver of wastes. If the farmer keeps a small dairy herd he will find it advisable to separate the cream and feed the warm skim-milk to his swine. In quantities of from 3 to 8 pounds to 1 pound of concentrated feeds skim-milk is a wholesome feed for pigs, brood sows and fattening hogs and will return 4 pounds or better of pork for each 100 pounds of milk fed. No system of making use of the feed and forage produced on the dry farm and of saving and retaining the greatest possible amount of natural fertility works so well as the combination of the hog and the dairy cow.

In gathering waste wheat, oats and barley the hog saves grains otherwise wasted and adds to the farmer's revenue. In the Northwest a bushel of wheat has been found to produce under ordinarily favorable conditions 12 pounds of pork. In this way thousands of hogs can be profitably fattened on the shattered and waste wheat, and by combining the wheat with barley and tankage for pen feeding rapid gains can be obtained at comparatively small expense.

Corn has been found to be the greatest of all hog feeds. It is one of the staple crops on the cheap lands of the dry farming belt, is cheaply grown and is not a hard drain on the land. Hogs will eat some fodder when green and will grow from 10 to 12 pounds of pork from every bushel of shelled corn fed them.

Kafir corn and milo maize are particularly successful crops in the southwest. The yields are abundant and the crops are satisfactory in every way. The grains will come within 10 per cent of the feeding value of corn and fit in well with combined farming and swine breeding.

An almost equally favorable showing can be made for other grains. Several varieties of root crops and several forages grown cheaply and advantageously in large sections of the inter-mountain and plains region add variety, succulence or bulk, as the case may be, to hog feeds. One of the cheapest methods of pork production, however, is from use of crops that can be grazed. For this purpose nothing equals alfalfa. Where alfalfa can be grown on the dry farm, pastures should be fenced and the raising of hogs made a permanent and extensive part of the farmer's work. A good acre of alfalfa will produce from 500 to 800 pounds of pork during the summer season, depending on nature of the soil, moisture conditions, kind of hogs used, etc. In this case the cost of harvesting the crop, thrashing and other expenses have been eliminated and the returns are a very large percentage net profit.

There is plenty of sunshine on the dry farm to disinfect and purify sleeping places and feeding grounds, plenty of room for the location of houses and yards, the drainage ordinarily promotes cleanliness rather than disease and all environmental conditions tend toward health, vigor and profitable growth in the herd. Use of products that would otherwise be wasted and abundance of cheaply grown grains solve the feeding problem and make the hog business an inviting one for the western homemaker.

"The Social Center"

By C. R. BARNES

The need of a place, in every farming community, which shall serve as a center for social gatherings and activities of all sorts—where people may learn both to work and to play together, and acquire the beneficent powers which develop from unity and co-operation—has received more general recognition than ever since it was so strongly emphasized in the report of the Roosevelt County Life Commission.

What that "place" should be has been a matter of much discussion. Some would locate it in the village church; some, in the district school building. From the neighborhood of Spokane comes the suggestion of an especially built "Country Life Hall," and in Connecticut the example of the little country town of Westogue, in converting an old colonial residence into a "Neighborhood House," is held up as the thing for general imitation.

But to not a few the "Consolidated School" idea affords the best solution for this, along with many other problems. When the church is proposed, the question must too often be asked, "Which church? Denominational jealousies may be quickened, from the fact that the preference of one church over another may influence attendance and growth. Also for many social gayeties, the church is held by many to be not the proper place. The district school building is likely to be too small; its adaptation to various social functions difficult, and its use too much limited by the necessity of avoiding any interruption of the work of the school. The sep-

arate "Country Life Hall" involves a large expenditure for a special purpose, when the same outlay might be made to serve several purposes at once. As for the "Neighborhood House," it is a splendid idea; but "colonial houses" of large dimensions, with halls capable, like that at Westogue, of seating 200 persons, are somewhat rare in the West—as rare, perhaps, as the individuals willing to donate such a house to the use of the community.

When three or four, or more, school districts unite in the erection of a Consolidated School building, it is a comparatively easy matter to contrive that the assembly hall therein shall be so planned and arranged as to be perfectly adapted to the holding of meetings of farmers' clubs, boys' and girls' contests, lecture courses, dances and social functions of all sorts. The location of such a school will naturally be chosen with a view to its easy accessibility for the largest number of farm homes in those naturally to be grouped under the co-operative enterprises in which the farmers are interested. Everything, in fact, would seem to point to the consolidated school as the coming "social center" of the larger number of communities.

By pushing for the consolidation of district schools, therefore, everyone will do something to promote, also, the development of the "social center" idea—an idea big with beneficent possibilities for those who dwell in country homes.

Kansas Woman Farmer Studies Soils

Gains A Knowledge Necessary To Success In Her Fields

By MISS JANE W. BURT

Soils are graded and named in reference to their texture. By texture of soils is meant the size of the soil particles. Those soils that contain a large proportion of the finest particles are clay, the next finest are silt, and the coarsest in texture are sands and gravels. Loams are intermediate in texture and humus is the chief agent of their formation. Clay soils are cold, late and difficult to manage. Clay loams are good for some crops. Clay holds plant food better than a sandy soil. Very light sandy soil is most difficult to keep from leaching. A sandy loam is the best for vegetable gardening, but any soil, even stiff clay, can be made productive and profitable by skill and labor.

The size of soil particles, determining the texture, cannot be modified to any appreciable extent, but the arrangement of those particles, determining the structure or physical condition of the soil, can be improved by drainage, by tillage and by incorporating fiber and humus. Garden soils must be mellow, deep, friable and warm. They must be workable early and the greatest possible number of days. This physical condition of garden soils is all important and should be considered before their fertility, or plant food can be added.

Drainage, by removing excess water, aerates and warms the soil, deepens the feeding space of roots, unlocks plant food and enables the soil to hold more capillary water. Most soils are improved by some sort of drainage. Artificial drainage is imperative with clay soils and sandy soils, with clay sub-soils, are much benefited by having surface water quickly removed. Tile underdrains

are most satisfactory and cheapest in the long run.

Flocculation, the uniting of many particles into compound particles, improves the condition of clay soils. This is attained by plowing deep in the fall and leaving the soil open to the weather till it is disked and harrowed in the spring. The danger of guddling clay by working when wet is most successfully met by incorporation of plenty of humus. Deep plowing is essential for gardens and when sub-soil is clay, it is a good practice to run the sub-soiler after the plow in order to deepen and aerate the soil.

Loose, sandy soils require a different treatment from clay. To prevent leaching, to conserve moisture and to increase capillarity it is often well to compact the sub-soil by always plowing at the same depth, but generous additions of humus are most beneficial.

A hard, stiff soil should be plowed in the fall, that the upturned earth may be dry and warm for early spring tillage. Sandy loams and soils of large humus content warm up early so they may be left for spring plowing. Some gardeners thoroughly cut the land with a disk harrow before plowing so that the soil will be fine and mellow when turned up by the plow. After plowing, the soil must be pulverized by disking and harrow-

ing and, last of all, smoothed with a drag of planks. Thorough deep preparation is necessary for all garden crops, and some require such special work as trenching and ridging. To maintain the soil in best condition, the upper two or three inches should be stirred as often as it becomes compact. This frequent cultivation keeps a surface mulch that enables the soil to absorb the rainfall and to prevent its moisture from evaporating.

As already stated, humus is an important factor in the amelioration of soils. It gives life to the soil. It makes it dark colored and mellow. It warms and aerates the soil, augments its water holding capacity, adds plant food and accelerates many chemical activities. If humus is derived from leguminous plants it adds nitrogen. Humus is secured by plowing under green crops, barnyard manure or compost of garden refuse. Soil with plenty of humus is easy to keep in good tilth and responds quickly to additions of fertilizer.

Rotation of crops improves garden soil, because the land receives different treatment in different years; one crop leaves soil in best condition for next; no one element of plant food is exhausted; weeds and pests are kept in check; labor is economized; and fiber and humus additions ameliorate the soil. Also, rotation in crops means

rotation in tillage, in manuring, and in all treatment.

Only when land is put and kept in best possible physical condition by drainage, tillage and incorporation of humus, will the soil content of plant food be available, and the extra supply in fertilizers be profitable. It is best to get the most possible out of the soil by expert management and then add plant food in order to get more.

Cover crops, barnyard manure and compost supply food as well as humus. All such organic fertilizers must pass through the fermenting stage before used that they may be quickly incorporated in the soil. In gardening, some concentrated fertilizer is used to secure an extra yield. A rotation in fertilizing land that alternates manures with commercial fertilizers is considered best.

Fertilizers must always be applied in excess of actual demand. A general rule is to make applications in the spring, but time, quantity and kind is largely a local and special problem. At first the only safe way is to use a good, high grade fertilizer at the rate of 1,000 to 2,000 pounds per acre and note the result. There can be no hard and fast rule, for each gardener must consider his own conditions. Garden soil must contain much quickly available plant food, so that the plant makes a rapid, continuous growth. As a rule, those who till best use the most fertilizer.

The sum and total of the requirements of best soils for gardening can be given under four heads: good drainage, good tillage, plenty of humus, reasonable excess of plant food.

A Record Breaking Holstein

The prosperity of an agricultural community depends most largely upon the profitable character of its live stock. Any information which points the way to the improvement of this live stock is of immense value to the community and one of the greatest sources of such information has been the cow testing organizations, whether they be associations formed for this purpose or the work of experiment stations.

About 16 years ago the attention of the world was attracted to the wonderful performance of a Holstein cow who produced the unheard of record of 21 1/2 pounds of butter fat in one week. Since that time more than 250 cows of this breed, many of whom were her descendents or relatives by blood, have exceeded this record in this country and all these results and all the knowledge which goes with them have been accomplished by means of official testing. The latest and greatest of these record breaking cows is Pontiac Clothilde DeKol 2d 5279 A. R. O., who produced, in 7 consecutive days, 646.1 pounds of milk which contained 7.66 pounds of butter fat and which is 1 1/2 pounds more fat than was ever produced by one animal in the same length of time.

This great cow may well be considered as a direct product of the development of dairy cows by testing that is embodied in the advanced registration system. Not only has she herself been officially tested during every lactation period, but her dams for three generations show but one untested cow, while her sires for the same distance back are all producers of tested daughters. Her sire and dam combined have 59 A. R. O. daughters, 18 sons with 133 A. R. O. daughters, and 17 daughters with 19 A. R. O. daughters; her two grandfathers and two grandams, 128 A. R. O. daughters, 40 sons with 347 A. R. O. daughters, and 63 daughters with 90 A. R. O. daughters; and her four great-grandfathers and four great-grandams, 40 A. R. O. daughters, 33 sons with 636 A. R. O. daughters, and 51 daughters with 98 A. R. O. daughters. The 14 nearest ancestors have jointly 227 A. R. O. daughters, 91 sons with 1,116 A. R. O. daughters, and 21 daughters with 207 A. R. O. daughters.

Pontiac Clothilde DeKol 2d has been tested during every lactation period, or five times in all, each test being extended to not less than 30 days in length, and that of her last lactation period covering semi-officially one year, and showing 649.115 pounds fat from 17,050.4 pounds milk. At her first test she produced 13.485 pounds fat from 383 pounds milk in 7 days, 54.403 pounds fat from 1,557.4 pounds milk in 30 days; at the second, 17.68 pounds fat from 516.7 pounds milk in 7 days, 70.053 pounds fat from 2,133.8 pounds milk in 30 days; at the third, 22.978 pounds fat from 533.3 pounds milk in 7 days, 91.11 pounds fat from 2,327.7 pounds milk in 30 days; at the fourth, 24.217 pounds fat from 634.1 pounds milk in 7 days, 93.013 pounds fat from 2,680.1 pounds milk in 30 days; and at the fifth and last, 29.766 pounds fat from 646.1 pounds milk in 7 days, 116.229 pounds fat from 2,588.4 pounds milk in 30 days.

In former official tests the work of this cow has been verified in the usual way; and in the last test, owing to the exceptionally large production,

it was twice verified, the interval between the two verification tests being 10 days. For a verification test, the State Agricultural College supplies a second supervisor to assist the first, the two supervisors relieving each other in keeping the cow under constant watch, and each making independent weighings of the milk and determinations of the amounts of fat produced. The first verification test was made before the cow had reached her best production, and showed for 24 hours 82.4 pounds milk containing 3.31 pounds fat; the second was made while she was at her best, showing 88.8 pounds milk containing 4.304 pounds of fat, or at the rate of over 30 pounds fat per week. The highest yield for any 24-hour period of the test was 4.457 pounds of fat from 94.7 pounds milk.

In estimating the amount of butter that can be made from a certain amount of fat in the milk, our State Agricultural Colleges add one-sixth of the fat to itself. By this rule, the 29.766 pounds of fat produced in 7 days by Pontiac Clothilde DeKol 2d would make 34.73 pounds of commer-

cial butter, and the 116.229 pounds fat produced in 30 days, 135.6 pounds of butter, being equal to nearly 5 pounds of butter per day for 7 days, and over 4 1/2 pounds per day for 30 days. The semi-official lactation tests show that the average Holstein-Friesian cow produces in her milk 2.5 pounds of solids not fat to every pound of fat; and on that basis this great cow must have produced 290.57 pounds of solids other than fat in 30 days. Adding this amount of solids not fat to the 116.229 pounds of fat, we have 406.8 pounds of total solids, all digestible and of the highest food value, again proving that in four production nothing can equal the Holstein-Friesian cow.

Dry Land Orchards.

In commenting upon some investigations made in orchards grown under dry farming conditions in eastern Colorado, Prof. J. E. Payne, formerly of the Kansas Agricultural College, draws the following conclusions which are equally applicable to western Kansas:

1. Trees used for windbreaks for orchards under dry farming conditions are expensive unless the trees of the windbreak group are planted far enough from the fruit trees so that the roots of the windbreak group will not compete with the fruit trees for moisture. The root development of the Russian mulberry and black locust found at The Plains Substation indicate that the windbreak group should be planted 100 feet from the fruit trees.
2. Roots of apple trees do not feed deeply here. If the ground about the ones dug up had been plowed twelve inches deep nearly all the large roots would have been broken.
3. The roots of these trees grew deeper when the soil was wet below the normal depth.
4. Deep planting of trees did not increase the rate of growth. Neither did it alter materially the position of the feeding roots.
5. The dry land orchard is not considered as a commercial proposition, but it will pay every settler to plant a few well selected trees and take extra care of them. Nearly all settlers plant more trees than they find time to care for, so they lose all.



PONTIAC CLOTHILDA DEKOL 2D, 5279 A. R. O. THE HOLSTEIN COW WHICH PRODUCED NEARLY 35 POUNDS OF BUTTER IN ONE WEEK.

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has more to it than mere wetness or sweetness—it's vigorous, full of life. You'll enjoy it from the first sip to the last drop and afterwards.

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A Cheap Way To Insure Healthy Hogs

You believe in insurance—don't you? In fact, you are paying out your good money right now to protect your house, barn and other buildings from loss by fire, because you wouldn't feel safe for even a day without such insurance.

Are your hogs insured? If not, why not? We don't mean fire insurance, but life insurance—"Merry War" Lye insurance—which will keep your hogs always fat and healthy and insures you getting them to market in prime condition to bring top prices.

How To Prevent And Cure Worms And Cholera

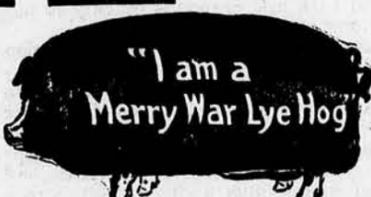
Here is a simple, sure, safe way to keep your drove in a perfectly healthy condition, render them immune to contagious diseases and increase the weight.

Tablespoonful "Merry War" Lye mixed with sloop for ten hogs, or one-half can with barrel of swill for larger quantity. Stir well, feed night and morning.

Do this, and no matter how sick your hogs may be, in a few days you will see a marked improvement. "Merry War" Lye cleanses the system, tones the digestive organs, makes sick hogs well and insures your pork profits.

Take No Chances!

The time to act is NOW, before worms, cholera and other hog troubles get in their work. It will be too late when Mr. Hog slinks off into some corner, gives a feeble grunt, stiffens out his legs and passes away. That kind of a dead hog will never fatten your bank account. What you want is



prime hams and bacon—not soap fat! So take no chances, but insure your porkers against an untimely death by starting them on "Merry War" Lye. And do it today. Don't delay!

The Cost Is A Trifle

"Merry War" Lye is the least expensive as well as the best protection against hog losses ever discovered.

Its action is sure, and the cost for constantly keeping your drove in prime condition is so small that you will hardly notice it.

A fair trial will convince you beyond all doubt that "Merry War" Lye will do everything that its thousands of Farmer Friends over the country claim for it.

At Your Dealer's

While most up-to-date dealers handle "Merry War" Lye, some dealers may offer you some other brand. If so, don't accept it, but explain to the dealer that while there are brands of Lye that are good for certain uses, yet there is only one kind—"Merry War" Lye—that is safe and specially prepared for use in preventing and curing sick hogs.

So if your Dealer can't supply you, write us and we will give you the name of one who can; and will also send you a valuable book on "HOW TO GET THE BIGGEST PROFITS FROM HOG RAISING." Send for this book today.

"Merry War" Lye comes in 10c cans, or 24 for \$2.00, at Grocers' or Drug-gists'. Accept no substitutes.
E. Myers Lye Co., Dept. 12 St. Louis, Mo.

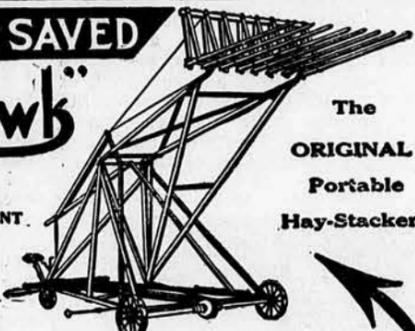
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Strongest, most durable fence made. Heaviest, closest wire. Double galvanized. Practically indestructible. Stock strong. Chicken tight. 14 to 26¢ per rod. Sample free. Wepayit. The Browns Fence & Wire Co., Dept. 29 Cleveland, Ohio.

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For 18 inch Hog Fence, 14¢ for 26-in. 26¢ for 48-in. Poultry. 78 styles. Bottom prices. Catalog Free. OTTAWA MFG CO. 603 KING ST. OTTAWA, KANS.

THE FARM



The ideal cow is one that is a large producer on a ration of crude field products. The cow that produces well on a ration composed largely of "roughness" will be economical and one from which to start a family.

Wheat Belt Moves West Again.

Most of our readers remember back just a few years when Sumner county was the banner wheat county of Kansas, and Wellington, the county seat, had an annual wheat jubilee and carnival advertised all over the state, bringing west the noted bands and singers in the country.

Sumner is east of the center of the state, but during the past half dozen years the wheat belt has pushed westward toward the 100th principal meridian, for many years considered the agricultural deadline.

For three years Barton county held the record, one year it was Rush county, and last year old Pawnee was the banner wheat county of the state. Both Rush and Pawnee counties lie between meridians 99 and 100. It is not a remote possibility that Ness, Ford and Hodgeman counties may some day be the greatest wheat counties in the state. These join Rush and Pawnee on the west and are divided by the 100th principal meridian.

Each year sees thousands of acres of raw land broken out in Ness county and put to wheat, and last year the average of alfalfa was doubled. It is estimated that 50,000 acres of Ness county are suitable to the growth of alfalfa, a great deal being lowlands adjacent to streams. Last year Ness county sold butter and milk valued at \$100,000; more than \$60,000 worth of poultry and eggs. The milk cows are valued at \$168,000 with \$400,000 worth of other cattle.

The assessed valuation of Ness county in 1909 was \$11,000,000. Ness City, the county seat, has electric lights, ice plant, two National banks, a flourishing mill, elevators, etc. Rural routes and telephones cover the country. Land sells in Ness county at low prices and on easy terms.

Those looking for good cheap farming land should look to the west. Rush, Pawnee, Hodgeman, Ford, Lane, Scott, Wichita and Greeley counties offer conditions and inducements similar in almost every respect to Ness county. The history of each county is one of growth and the gradual overcoming of the prejudice of the east.

We have all seen the wheat belt moving west and those who have been far sighted enough to move with it have been prospered accordingly.—D. M. T., Ness County.

Blowing Soil.

As there is always some trouble from land blowing in some part of this state, and as there is considerable trouble already experienced this year in regions where it is unusual, it is time to consider what can be done to stop it.

Straw spread thinly over the field will keep it down with the least injury of anything that can be used as an emergency measure. This will have to be done after the seed is in, as the straw and litter will clog the drill or harrow or whatever is being used on the land. The harder the wind blows the better will the straw be distributed and the more easily will it be put on the land. Often, simply strips of it through the field will be sufficient. How much will have to be put on will depend upon how determined the field is to blow.

Stable manure scattered thinly with a spreader will also serve the purpose of preventing the blowing. Fresh stable manure which is full of litter from bedding or partially rotted stack bottoms will serve the purpose very well and will cause little damage to the grain. Clean bedding, straw or litter should be used, of course, as a good many weeds will be started in the field otherwise.

Occasionally some one in desperation at seeing his land blow will run single furrows through it at intervals

of every five rods or so. This destroys a good deal of the grain but sometimes saves much more than it destroys. It is quickly done and under desperate conditions it may be warranted as the only thing that can save the crop during a heavy day blowing.

Spring plowing is practiced in districts where the trouble is common. Spring plowed land and even that which is disked rather deeply and plowed does not blow, to compare with fall plowing. While summer fallowing is the worst of all. It is a good practice to sow a couple of quarts timothy seed with the grain per acre as it will make roots enough to keep down the blowing considerably in future years.

Losses from drifting are serious and very distressing and one can take satisfaction usually in the struggle to prevent it at the time that it is going on.—J. H. Sheppard.

The Anti-Horse Thief Association

The Kansas division of the Anti-Horse Thief Association now numbers about 20,000 members and is the largest in the country.

When the order was first organized in 1854 on the Iowa-Missouri state line in 1854 the members had need of protection against horse thieves and combined to assist the civil officers of the then frontier to catch offenders and protect the property of the membership.

This order has long since outgrown the limitations first placed upon it and has now become national in scope and broad in purpose. Its objects, as set forth in the constitution are "to insure the safety of our people and the security of their property against loss by thieves, robbers, murderers, vagrants, tramps, incendiaries and all violators of law, and to secure to ourselves and our families the enjoyment of life and the pursuit of happiness in the possession of our honest rewards of labor with equal and just rights to all."

The A. H. T. A. is then a fraternal order whose chief object is to assist the civil officers in the prompt and effective performance of their duty in the protection of property and the apprehension of offenders against the law.

It is both a detective and a protective order with the purpose of preventing crime by making it hazardous to the criminal. It is a patriotic organization which admits none but law abiding men to its membership. It is cooperative in that each member is obliged to assist all other members in the protection of his property at home and the recovery of stolen goods and, while it is a secret organization, it is in no sense a vigilance committee. It does not violate the law to uphold another. It is non-political and takes no part in any political and religious faiths to membership but admits good men of all political and religious faiths to membership. It is an officers' aid society and if any offender against the law is captured he is immediately turned over to the proper police officials.

Kansas banks that comply with the requirement that at least a majority of their officers and members shall be members of the A. H. T. A. are given its protection, and, by agreement with the State Bank Commissioner, only such banks as meet the requirement shall receive such protection.

On the report of a crime of any kind the local lodge is ordered to immediately to assist the officers in capturing the criminal.

The A. H. T. A. teaches greater respect for law through its instruction to its members and by making its name a terror to evil doers and that it can do through its large membership. A criminal may offend in one state but the order is on the alert for him in every state.

This order has the credit of having done more to suppress lawlessness than any other agency, the officers of the law included.

DAIRY

The National Dairy Show
The National Dairy Show Association has spent more than \$200,000 in promoting the dairy industry of the United States and the dairy farmers that they have had value received. The next show will be held in Chicago on October 26 to Nov. 4 and will exceed in size and interest as well as probable attendance, any of its predecessors.

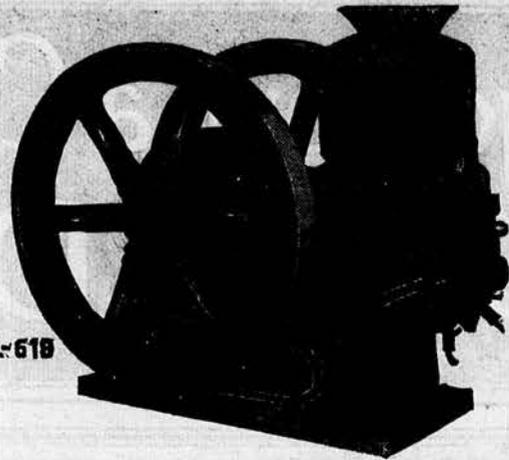
The American Jersey Cattle Club.
According to the report of the Treasurer of the American Jersey Cattle Club, that institution is in a very satisfactory financial condition. In addition to having on hand approximately \$14,000 in cash, it has real estate, deposits and other property which make a total of the very comfortable sum of \$167,260.66. Its membership fees for the past year amounted to \$6,200, registration fees, \$4,581, transfer fees, \$2,971, authenticating tests, \$4,763.97, register merit entry fees, \$574.

The International Dairy Congress.
The fifth International Dairy Congress will be held this year at Stockholm, Sweden, from June 28 to July 10. These congresses have been held heretofore in Brussels, Paris, The Hague and Budapest. Their importance is recognized by every civilized country on earth, and representatives are sent from the agricultural or dairy departments of each. Dean Ed Webster of the Kansas Agricultural College has the honor of representing the United States at one of these meetings, while he was Chief of the Dairy Division of the United States Department of Agriculture. The official language of the congress will be French, but Swedish, German and English will also be used in the discussions and the publications of the congress will be used in these four languages. The international organization has a branch in each country and the chairman for America is the Chief of the Dairy Division of the Department of Agriculture, who will probably represent this country at this important session.

Calf Stanchions.

Prof. D. H. Otis, who is so well and favorably known by reason of his efficient work in the Kansas Agricultural College and later in the Wisconsin station, is a believer in the use of stanchions for calves at feeding time. He says that stanchions are almost indispensable for calves at feeding time. If desired, these can be constructed in sections and transferred to the pasture lot in summer. The construction should be such that the calves cannot reach each other's ears and mouths after drinking their milk. This sucking habit may result in the calf swallowing an undue amount of air which is liable to cause bloat. It may also be the means of spreading disease as contagious scours or calf cholera. The style of stanchion will vary to suit individual tastes. Wooden stanchions are more easily and cheaply constructed on the ordinary farm. They can be made largely of waste lumber. The lumber required for 10 stanchions of this kind is as follows:
Two pieces 1 by 12 inches by 10 feet for bottom of feed box.
Two pieces 1 by 12 inches by 16 feet upright partitions.
Two pieces 1 by 6 inches by 10 feet for front of feed box.
Five pieces 1 by 6 inches by 16 feet for top and bottom rails.
Five pieces 1 by 4 inches by 14 feet full thickness for fixed uprights.
Two pieces 1 by 4 by 16 inches, 3/4 inches thick for swinging uprights.
Ten pieces 1 by 3 by 10 inches for tongues or locks.
Three posts 6 feet in length.
Three blocks 6 by 12 inches under feed box.
This allows two feet of space to each calf, which can, if desired, be reduced to one and one-half feet, and the lumber reduced accordingly.

The Dairy Shorthorn.
The American Shorthorn Breeders' Association has been making efforts for a number of years past to develop the inherent milking qualities of that breed. These efforts have taken the form of lectures, publications of various sorts, milking tests and prizes at various large fairs and expositions. Following this lead the Department



L-618

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Putting the matter as briefly as possible the reasons for the **ABSOLUTE SUPERIORITY** of the

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over ALL OTHER SEPARATORS, are as follows:

The UNITED STATES SEPARATOR employs a device for delivering the incoming whole milk back of the cream wall, thus preventing any possible remixing of the cream with the skim milk. This device is patented by us, and CAN BE USED ON NO OTHER CREAM SEPARATOR.

The UNITED STATES SEPARATOR employs a skimming device which by reason of its non-aligned channels, subjects the whole milk to a HIGHER DEGREE OF CENTRIFUGAL STRESS than any other skimming device. This, also, is OUR PATENT; it can be used on no other Cream Separator.

The UNITED STATES SEPARATOR, by reason of its highly efficient skimming device, can be THOROUGHLY WASHED AND MADE SANITARY (as the records show) in 10 seconds. Because the same principle is used in washing as in swimming.

The UNITED STATES SEPARATOR is BUILT TO LAST A GENERATION; and it does. Sixteen, seventeen and eighteen years of perfect work, is the record it has made.

The UNITED STATES SEPARATOR, by reason of its modern and skillful construction, is now the EASIEST RUNNING SEPARATOR BUILT.

Vermont Farm Machine Co., Bellows Falls, Vermont, U. S. A.



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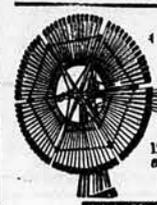
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THE prosperous farmers of the country are those who have taken advantage of every possible means of saving time and money. On their farms you will find gasoline pumping engines—telephones—the most modern and practical agricultural implements—automobiles and every other known device that shaves down time and makes men and things move and produce quicker, and with more efficiency. And it is a fact that on the majority of these same prosperous farms you will find an

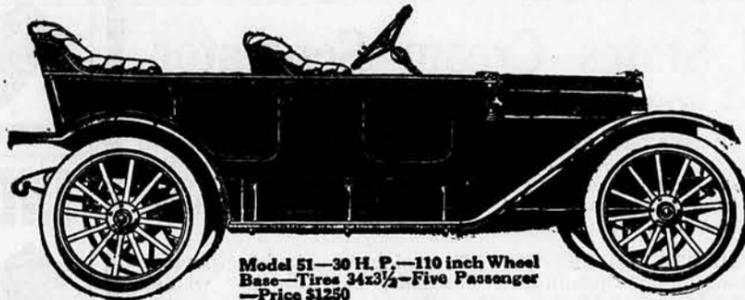
Overland

in service helping these men to make and save their money. The farmer buys the Overland purely and simply because he needs it in his business. He buys it because he knows that it is built to work as he needs it too. He wants a good strong, reliable car—one that has enough dependable power to take him any place, any time, under any condition.

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of Agriculture, through its Bureau of Animal Industry, has taken the matter up and reports progress in the good work.

It is well known that the old English Durham is and has been for many years the milk cow of her home counties. It is also well known that she retains the milk giving characteristics even in this country, where she has been bred for beef only for more than a half century, and it is claimed by her admirers that she is the only real dual purpose animal of the day.

Certain it is that the Shorthorn is one of the best and most economical beef making machines in the world, and that she is one of the few strict-

ly beef bred animals that can supply enough milk with which to raise her own calf to the best possible advantage.

But is there not another side to the question? If the Shorthorn is bred strongly for milk production, as she could undoubtedly be, would she not of necessity lose much of her present valuable beef qualities and take on the form as well as the function of the dairy breeds?

This brings up the old question which is ever new, Are not the specially bred animals the real money-makers, and is there any real demand for new breeds or the development of unused qualities in the present breeds? If a man wants to raise beef does he

not meet with much greater success by adopting one of the established beef breeds. If he is a milk farmer, do not the dairy bred cattle produce more revenue and do it more economically than can any other?

In other words, will not the efforts of overzealous friends of the milking Shorthorn result in the production of a type of animal that will only need a black and white coat to pass as a Holstein?

The great value of the imperial Shorthorn lies in her ability to produce a high quality of meat in a short time and to reproduce herself in a calf which she is abundantly able to nourish and care for. These qualities are the results of long and skillful breeding operations conducted by men who knew what they wanted and who got it.

If the same enthusiasm and skill is used to make of the modern Shorthorn a milking animal will she not cease to be what she now is and become something much less desirable?

By all means keep the milking Shorthorn as she now is, but do not attempt to make a dairy cow of her. This would require years of strenuous effort and the results would be of doubtful value.—W. McL., Shawnee county, Kansas.

When you want to buy a cow first learn which one the owner intends to keep and then buy that one.

HORTICULTURE

Alfalfa cutting began earlier this year than ever before in most sections of Kansas, and in spite of the dry season, a good crop is promised.

Nitrogen stimulates the leaf growth of plants; potash the fiber of the stalk and the tuber of the root, and phosphorus, the blooms and fruit. These three are the most important elements of plant life and those which are most easily depleted.

Tree Planting in Western Kansas

My success in tree planting as far as I was able to go, was on timber claims, and at the proof making they were neglected and culture was dropped and in this country, as well as any country, trees that are not cultivated will die. Ash and black locust were most successful and hardy. In buying my present ranch which consists of 4,840 acres on the Smoky Hill river, I had to leave off my care of the trees as a whole and look after my finance part of the game of life. I came here a poor man with \$5 and that was in 1886. I have had nothing but economy and hard work, but my home part of the ranch has made a good showing, and made good, especially in my May cherry orchard for fruit and windbreak.

I find that success may be had by planting May cherries in large tracts east and west and north and south about ten feet apart, and on the west and north sides plant red cedars six or eight feet apart. Red cedar is the most hardy of all the evergreen family for this country, and they will make good with but little care and attention. They catch all of the snow drifts and hold the moisture for summer use. They save the cherry grove by moisture from the snow. The red cedar is easy to start, or rather to grow, as two or three year old trees are the best to plant.

Tree planting is all right, but they must be cultivated if success is made for the owner. The cherry tree is a hardy tree for this country and will make good. The grove shown in the cut has been growing here for twenty-four years, and is still hardy and in a thrifty condition and looks as though it might live for twenty-five years more.—M. L. Chandler, Goodland, Kan.

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in each town to ride an exhibit sample 1911 bicycle. Write for special offer. Finest Guaranteed \$10 to \$27 1911 Models with Coaster-Brakes and Puncture-Proof tires. 1909 & 1910 Models \$7 to \$12 all of best make. 100 Second Hand Wheels All makes and models, \$3 to \$8 good as new. Great FACTORY CLEARING SALE We Ship on Approval without a cent deposit, pay the freight, and allow 10 DAY'S FREE TRIAL. TIRES, coaster brake rear wheels, lamps, parts and repairs for all makes of bicycles at low prices. DO NOT BUY until you get our offer. Write now. CHICAGO CO. Dept. F-296 CHICAGO

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HOME CIRCLE

A Mother's Prayer.

CARLOTTA ALLIS PARDEE.

When first they placed him in my arms

I breathed a silent prayer That he, my first born child, Might prove to be exceedingly fair.

Then as I held him close to me, This sum total of woman's wealth, I thought, Ah me, if he should die! And whispered, "Father, give my baby health."

But ere the prayer had left my heart A thought I scarcely could endure Came o'er me, and I cried aloud, "Oh God, do as Thou wilt, but keep my baby pure!"

A mirror should never be placed so that it catches the direct rays of the sun. The glass will become milky in appearance and can not be restored to its original clearness if the sun is allowed to shine upon it.

Pretty Mean.

A new-made widow called at the office of an insurance company for the money due on her husband's policy. The manager said: "I am truly sorry, madam, to hear of your loss." "That's always the way with you men," said she. "You are always sorry when a poor woman gets a chance to make a little money.—Tit-Bits.

8953. A Delightful Seasonable Frock.

Very effective for linen, chambrey, gingham, percale, cashmere, pongee or other materials now in vogue. The model may be developed as a one piece dress, or with separate waist and skirt. It is to be worn with or without a guimpe or tucker. The waist and skirt have an inserted panel at front and back, which could be



pretty braided or embroidered. A shaped yoke collar and cuff forms a suitable finish for neck and sleeve edge. The pattern is cut in 5 sizes: 14, 15, 16, 17 and 18 years. It requires 4 1/4 yards of 36 inch material for the 14 year size. A pattern of this illustration mailed to any address on receipt of 10 cents in silver or stamps.

1665. Apple Blossom Design for a Skirt Panel.

This design is suitable for long and short stitch. Stamped on 5 yards of fine white linen, \$3.50; stamped on 4 yards of 39 inch lawn, \$2; stamped on 4 yards of 39 inch Nainsook, \$2; stamped on 4 yards of 39 inch Butcher Cloth, \$2; perforated pattern, 25 cents; transfer pattern, 10 cents. A shirt waist design to match it can be secured in No. 507.

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Meat Croquettes.—One solid pint of finely chopped cooked meat, one pint of dried bread crumbs, one cup of water, one tablespoonful of flour, three tablespoonfuls of butter, one level tablespoonful of grated onion, one teaspoonful of powdered summer savory, one teaspoonful of minced parsley, two eggs, salt and pepper to taste. Use any kind of tender, lean, cooked meat, season with salt and pepper, chop very fine, and add it to the onion, summer savory, and minced parsley. Now put the butter in a saucepan and set over the fire; when the butter is melted, put in the flour and stir until it is smooth, then gradually add the water, stirring all the time; when it boils add the seasoned meat, and cook two minutes. Turn it out on a platter, and set in a cool place to stiffen. When ready to fry, divide the stiff mixture into sixteen parts. Sprinkle the molding board lightly with some of the crumbs, and put the rest aside. Break the eggs and beat until smooth. Shape the croquettes into cylindrical forms, or balls slightly flattened; dip them in the egg, coating every part evenly, then roll in the crumbs, covering every part with them. Fry in fat about four inches deep, or enough to float them. Drain on brown paper and serve hot; garnish with parsley.

Chicken Salad.—One quart of boiled or roasted chicken, cut in dice pieces, one pint of tender white celery, two tablespoonfuls of vinegar, mayonnaise dressing, lettuce leaves, salt and pepper. Put the chicken into an earthen dish, season with salt, pepper and vinegar, mix well together, and set in the ice box for two or more hours. Cut the celery into quarter-inch pieces, and place also in the ice box until serving time. Have the mayonnaise made in the meantime. Mix the chicken and celery well together with about one-third of the mayonnaise dressing. Arrange crisp lettuce leaves around the edge of a salad dish and put the salad in the center in mound shape, then turn the rest of the dressing over the top.

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POULTRY

We haven't had many rainstorms this season and none to damage young chicks or turkeys so far, but the time for them is not far off. See that all young stock is under shelter when the heavy rains do come.

How to Feed Chicks and Turks.

Will you please inform me through the columns of your paper of the cause of sore eyes in young chickens; also the best food to give them to prevent bowel trouble? What is the best food for young turkeys? I have been feeding the chickens bread made of corn chops and sweet milk with salt and pepper. Is it the feed that is causing trouble?—Mrs. J. R. Raumaker.

Ans.—The chief cause of sore eyes in chicks is because they have caught cold by being wet or staying in drafty quarters. To prevent bowel trouble in chicks feed nothing but dry feed. Cracked corn, ground oats, millet seed, meat scraps, all mixed together, makes an ideal food. We have fed a great deal of dry bran this season with very good results. We feed it in a hopper where the chicks can get it at any time. This is in addition to their regular feed. It is surprising the great amount of bran they will eat.

As to turkeys we give the opinions of successful turkey raisers. On one point all turkey growers agree that no sloppy food must be given the young birds. In a natural state the turkey chicks feed largely upon flies, bugs, grasshoppers, worms, ant eggs, etc., and if watched on a bright day will be seen to be constantly chasing flies about the meadows and woods. Berries and seeds make the variation. The first meal for young turks should be hard boiled eggs and stale wheat bread dipped in milk, the milk squeezed out and both crumbled fine and seasoned with black pepper. This feed may be continued for two or three weeks, with now and then a variation to cottage or Dutch cheese in place of the egg. Let it be known that the egg is a substitute for insects, which the young turkey has in its wild state, so as opportunities open for the turks to get insects, the egg should be omitted. Dry corn meal should not be given to them, nor wet meal insufficiently swelled. If the meal swells in their crops, death is almost certain. The best way to feed corn meal is in the shape of a johnny cake. After the young turks are three weeks old, omit the eggs and give meat scraps and ground bone. Clean water or milk should be before them all the time. Be sure and see that the turkey mother and young are free from lice, for more young turks die from this than any other one cause.

Taking Care of the Birds.

Blame for a \$700,000,000 a year damage to farm crops by the destruction of birds which feed on insect pests has been laid upon the sportsmen of Chicago and of other cities. By J. P. Gilbert, of the University of Illinois, who declared the crop damage amounted to this enormous sum each year.

"Quail on the farm is worth many dollars," he said, "although quail on toast is worth but a few cents in spite of the high prices. One flicker can eat 5,000 ants at a single meal and the kingfisher is the most powerful defender of the poultry yard in existence." Verification of Mr. Gilbert's statements was given in a bulletin of the Department of Agriculture just issued which mentions the disappearance of the various shore birds which are fond of insect pests of forage and grain crops, particularly the army worm which is eaten by the killdeer and spotted sand piper, also cut worms, whose most active enemy in early days were woodcock, upland plover and killdeer. According to this bulletin jack snipe, plover, woodcock and other shore birds are nearing extermination and present conditions are such that the wonder is that any escape. "In both fall and spring they are shot along the whole route of their migration north and south," says the bulletin. "Their habit of decoying regularly and persistently, coming in flocks to the decoys again and again in spite of murderous volleys greatly lessens their chances of escape. The breeding grounds of the species in the United States and Canada have been greatly restricted by the extension of agriculture."

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(Continued on page 15.)

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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.

YOU CAN'T BEAT IT. 160 acres, level, sub-irrigated land, fenced, 170 a. in wheat, 1/2 goes; best in county; 60 mow land; all can be farmed; half mile to school; 3 miles to trading point; on R. F. D. and phone line; first class for investment or a home. Price \$6,000; terms. All new land. Write BROWN, GRANT & WALTER, Kingman, Kansas.

IMPROVED FARMS IN SOUTHERN MINNESOTA. In Blue Earth county, Brown county and Lyon county are the best farms you can buy for the money anywhere. A few hours' ride from St. Paul and Minneapolis, and a night's ride to Chicago. Settled community, good schools, plenty of rainfall, good markets, soil the best. This land is better than they are selling for double the price in older states. We can satisfy you. Write us. SOUTHWESTERN LAND COMPANY, 126 Jackson St., Mankato, Blue Earth Co., Minn.; Marshall, Lyon Co., Minnesota. "Live Agents Wanted."

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

FOR SALE—Ranch of 1120 acres 5 miles from my town, at \$22.50 per a.; improved. Also good Ford Co. lands at \$25 per a. J. B. BECKTELL, Macksville, Kansas.

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

HARDYNER—160 to 1000 acres farmers' price, \$10 to \$50 per acre; country good; water fine; town 18 months old; 225 people; school bldg. cost \$12,000. Write us or come and see this good country. Terminus of M. F. R. R., Barber county, Kansas. HARDYNER REALTY CO., Hardyner, Kan.

A FINE NESS COUNTY FARM—240 acres 1 1/2 miles from town, 1/2 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.

A NICE HOME—262 acres, smooth and level, 177 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.

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, \$5,300. 100 acres, Kansas River bottom alfalfa land, \$6,000. J. B. FT, 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.

Best Bargain in S. E. Kansas. 240 acres, 6 miles from Coffeyville, fair improvements, 80 acres in cultivation, balance mowland and pasture. Snap at \$26 per acre. No trades. H. H. KAHN, Coffeyville, Kansas.

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

Just What You Want. 160 acres, Rush county, Kansas, 2 1/2 miles from good town and railroad station, 100 acres under cultivation, 80 acre grass, all tillable, a bargain at \$4,500. JAMES H. LITTLE, The Rush County Land Man, LaCrosse, Kan.

BEST WHEAT LANDS. Ness county has two railroads, \$600,000 bank deposits, horses and cattle valued at \$1,300,000; dairy cows, \$168,000; assessed valuation, \$11,000,000. Best wheat and alfalfa lands cheap. Write for latest booklet of views of county and city and lithographed map. MINER BROS., Ness City, Kansas.

THORNHILL & CONNER'S EXCHANGE. We have land to trade for merchandise, and merchandise to trade for land. We can trade anything that is worth the money, it don't need to be land or merchandise. Let us know what you want and where you want it, and what you have to exchange, and we will get you a trade. We don't want inflated prices. THORNHILL & CONNER, Hutchinson, Kansas.

FINE STOCK FARM. 560 a., 100 a. in cultivation, 150 a. in meadow, remainder in good pasture; 5 room house; nice barn 106 ft. long, 30 ft. wide; other buildings; good well; orchard; on rural route 3 miles to shipping point and 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 926, Fredonia, Kansas.

In The Artesian Valley. 320 a., 2 ml. of Fowler, 8 to 15 ft. to water, all sub-irrigated, all in grass now but the whole is choice alfalfa land. There is big money in this at \$45 per a. Can make terms to suit. I have several choice pieces now in alfalfa at \$75 per a. up. Also finest wheat land \$20 per a. up. Write owner, E. L. WATTS, Fowler, Kansas.

Reno County BARGAIN. 160 acres good Reno county land, 2 1/2 miles good R. R. town, all tillable, sandy loam soil, 50 acres in pasture and mow land, balance in crops, 4 room house, barn for 12 horses, other buildings, well fine water and windmill. Price \$8,000 on easy terms. WE HAVE THE BARGAINS. BARRETT LAND CO., Hutchinson, Kansas.

PLAINS, KANSAS

We believe KANSAS FARMERS read by the majority of Kansas farmers, men who are on the look-out for good, low priced land investments. So we have her two of our best bargains: 160 a. 9 mi. from Kismet, 1 mi. from Plains. Perfectly smooth and level, rich soil. When broken out, first crop will pay for itself only \$12.50 per acre. 180 a., 6 mi. from town, 1 1/2 in spring crop, 1/4 goes to chaser, balance in pasture, 1/2 to school; a rare bargain at \$26 per acre. Bear in mind that Plains is a live, active community, where values are rapidly increasing, where landlord's crop-share never 20% and cent on investment. Come and see these two bargains. Largest list of bargains in the west mailed upon request. COONS & JACOBS, Plains, Meade Co., Kan.

BAGAINS in Southern Kansas improved lands and stock ranches, \$25 to \$70 per acre. E. K. Longard, Ard, Kansas.

GOOD WHEAT LAND in Meade and counties at reasonable prices; can be at 6 per cent; Gray and Finney counties on easy payments at 7 per cent; Ford county farms. J. B. C. Cook, Kansas.

GREENWOOD CO.—320 acres 1 1/2 Hamilton, 1/2 mi. to school, R. F. D. telephone line; 9 room house; barn horses; 50 a. tame grass; 140 a. land, 180 a. in cult., bal. pasture, farm; priced right; \$15,000. A. Hamilton, Hamilton, Kansas.

FAMOUS SHARON VALLEY—1/4 m. from Sharon, improved, 450 a., 110 in cult., running stream, fenced alfalfa land, \$8500; terms. 360 a., 6 mi. from Garlin, improved, in cultivation, fenced, well watered land; lays fine. \$4,320. Write for information. Winter & Bauer, Sharon, Kan.

A REAL SNAP in a Stafford county 160 acres, good for corn, wheat and with some splendid hay and grass. Price \$35 per acre. Fenced; fair improvements. Well located. Now in crop is a good all-around farm. Write for come and see it. A. L. McMillan, Ford, Kansas.

160 ACRES, 3 miles from town, room and one 2-room house, barn 14x24, cattle shed 14x50, 85 acres alfalfa, 15 a. alfalfa land, all school 1/2 ml., telephone, young orchard, grove of forest trees. Price \$4,000 for good clean stock general merchandise. F. T. McIninch, Ransom, Land list free.

600 ACRES, 300 a. in cultivation, in wheat, 100 a. of oats and barley, corn, running water, well, mill, tank; timber; fenced and cross fenced, a fine alfalfa land; 10 roomed house; barn 26x44 feet; basement for horses and cows; sheds for stock outbuildings; 1 mile to church and 7 miles from Ness City. Price \$40 per acre. Terms on it if wanted. Wm. A. Ness City, Kansas.

LOTS IN PLAINS will make some price small lots. Prices \$12.50 to \$50. Easy payment literature address John W. Baughman, Desk "F," Plains, Kan.

FOR TRADE. 235 acres 4 miles of Garnett, 200 acres in cult.; 25 pasture, balance alfalfa; 5 room house, barn, etc. Price \$5,000; mortgage \$5,000; wants mds. 80 acres 3 miles of Greeley; well improved. Price \$5,200. Write for ern Kansas land. SPOHN BROS., Garnett, Kansas.

LOOK. Can you beat it? Half section of miles from Tyrone, Okla.; level, fine broom corn land. This is cheap, stealing at \$1000 per quarter section. It will mean money for you. Investigate this. Write for particulars regarding the Great Southwest. ELLSAESSER & HENRY, Liberal, Kansas.

TEXAS LAND.

LOWER PECOS VALLEY IRRIGATED LAND. In West Texas is absolutely the best for safe and profitable investment in America. 40 acres will provide a home and a yearly income of \$2000. Development has only fairly started. Present values will double and triple price within two years. We own the sale of the best irrigated lands which we can sell in tracts of from \$50 to \$100 per acre, water paid, on easy terms or we can accept title of artisan or shallow water lands at \$5 to \$10 per acre. For particulars and all the year climate of the valley is unsurpassed. Let us know what you want and we will supply detailed information. Address THE HEATH COMPANY, 100 West Seventh St., Topeka, Kan.

Hogs are grazing animals need pasture and will pay much for it in two ways. They make gains and save you labor. The telephone is about the best and quickest errand boy. The cost much, is always ready to eat.

INDIAN LANDS!

100 Acres of rich black corn land in EASTERN OKLAHOMA for sale. Write ALLEN & HART, Owners Commerce Bldg., Kansas City, Mo. And Claremore, Okla. Agents Wanted.

GET A HOME.

Large farm 2 1/2 miles of R. R. town of county seat, 10 a. in cultivation, 10 a. pasture, 10 a. mow land, 6 a. alfalfa, good 6 room house, 5 a. granaries, all fenced, 2 fine water, fine grape vineyard, 1/2 mile farm drains well. Price \$7,000. Write for our land list. BATTEN REALTY CO., Medford, Oklahoma.

ANGEN—Lands, city properties and Hannum Land Co., Cherryvale, Kan. bottom and upland farms, Mont-Co. Write for bargain farm list. Land Co., Cherryvale, Kan.

FOR SALE IN CLOUD AND other counties in Kansas. All prices, to \$100 per acre. Glad to send you Concordia Land Co., Concordia, Kan.

CRE STOCK FARM for sale; has 2 good improvements; land lays fine; soil is well watered and has a fine park and joins a good town. A opportunity. Don't miss it. Write for said list of farms. Spears Realty Co., Kansas.

DO IT TODAY.

C. W. Hinnen of Holton, Kan., for information regarding 5, 10, 20 and 40 acre tracts joining Holton, Kan. He has the best improved and unimproved of the state. These tracts lay within 1/2 mile of town. Write today. C. W. HINNEN, Holton, Kansas.

SALE BY OWNER

of Jewell county highly improved, 200 acres; large 2 story 8 room house; large basement barn; 35 acres alfalfa; 35 acres corn land. Price \$75 per acre. To suit purchaser. Address: P. O. BOX 198, Jewell, Kansas.

Writing advertisers please use KANSAS FARMER.

FIELD NOTES

FIELD MEN.

- Devine.....Topeka, Kan.
- R. Johnson.....Clay Center, Kan.
- Cody.....Topeka, Kan.

PURE BRED STOCK SALES.

- Poland Chinas.
- J. D. Willifong, Zeandale, Kan.
- A. J. Swingle, Leonardville, Mo.
- L. R. McClarnon, Bradyville, Iowa.
- J. C. Salter, Jasper, Mo.
- S. A. Hobson & Son, King City, Mo.
- T. J. Dawe, Troy, Kan.
- A. R. Enos, Romona, Kan.
- W. H. Emmons, Elmdale, Kan.
- Oak Hill Stock Farm, Esbon, Kan.
- S. N. Hodgson & Son, Parker, Kan.
- Geo. M. Hull, Garnett, Kan.
- W. E. Long, Meriden, Kan.
- J. J. Hartman, Elmo, Kan.
- J. E. Bundy, Goodrich, Kan.
- Dietrich & Spalding, Ottawa, Kan.
- Roy Johnson, South Mound, Kan.
- A. R. Rystead, Mankato, Kan.
- Herman Groninger & Sons, Ben-Kan.
- W. F. Fulton, Waterville, Kan.
- A. P. Young, Lexington, Mo.
- T. J. Meisner, Sabetha, Kan.
- W. B. Van Horn, Overbrook, Kan.
- R. Webb, Bendena, Kan.
- Baker Bros., Butler, Mo.
- J. C. Halderman, Burchard, Neb.
- J. O. James, Bradyville, Iowa.
- H. H. Harter, Westmoreland, Kan.
- M. T. Williams, Valley Falls, Kan.
- H. B. Walter, Effingham, Kan.
- T. M. Graner, Lancaster, Kan.
- M. J. Willson, Lebanon, Kan.
- H. J. Bowser, Abilene, Kan.
- Verny Daniels, Clay Center, Kan.
- L. E. Klein, Zeandale, Kan.
- W. A. Palmer, Peabody, Kan.
- Young & Kimberling, Glasco, Kan.
- P. L. Ware & Son, Paola, Kan.
- Walter Hildwein, Fairview, Kan.
- F. W. Barber & Son, Franklin, Kan.
- A. P. Wright, Valley Center, Kan.
- C. W. Jones, Solomon, Kan.
- Miller & Manderschied, St. John, Mo.
- J. F. Ware, Garfield, Kan.
- George W. Roberts, Lamed, Kan.
- T. J. Meisner, Sabetha, Kan.
- A. L. Albright, Waterville, Kan.
- J. H. Hamilton & Son, Guide Rock, Mo.
- A. C. Lobaugh, Washington, Kan.
- T. J. Charles, Republic, Kan.
- H. C. Graner, Lancaster, Kan.
- 1912—George M. Hull and Col. C. E. Garnett, Kan.
- W. E. Willey, Steele City, Neb.
- Oak Hill Stock Farm, Esbon, Kan.
- J. H. Harter, Westmoreland, Kan.
- A. R. Rystead, Mankato, Kan.
- R. M. Bunnell, Atchison, Kan.
- E. E. Logan, Beloit, Kan.
- W. A. Prewett, Asherville, Kan.
- C. W. Jones, Solomon, Kan.
- J. J. Hartman, Elmo, Kan.
- 1912—L. R. McClarnon, Bradyville, Mo.
- T. M. Willson, Lebanon, Kan.
- Duroc Jerseys.
- E. W. Davis & Co., Glenwood, Mo.
- E. W. Davis & Co., Glenwood, Mo.

- Oct. 21—M. T. McBride, Parker, Kan.
- Nov. 2—Grant Chapin, Green, Kan.
- Nov. 2—Frank Elder, Green, 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.

O. I. C. Swine.

- Oct. 25—R. W. Gake, Garnett, Kan.
- Oct. 28—Arthur Mosse, Route 5, Leavenworth, Kan.
- Nov. 4—George O. Clark, Wilcox, Neb., and O. W. & E. Holtquist, Sacramento, Neb. Sale at Holdrege, Neb.

F. M. King & Son's Polands.

On October 6, F. M. King, living near Kasper, Mo., will sell a draft of his Poland Chinas Mr. King has lived in Jasper county most all his life and his honesty and integrity are above reproach. Dr. King, his son, is interested in the herd, and while they have now only a small herd they have a few mighty good sows with good even litters. At the head of this herd is Hadley Boy by Smith's Big Hadley, dam by Black Chief by Logan Chief Tecumseh 3d. Further mention will be made of this young boar and herd in later issues of Kansas Farmer.

Marsh Creek Durocs.

R. P. Wells, owner of the Marsh Creek Duroc Jersey herd, located at Formosa, Kan., is one of the successful breeders of his part of the state. Mr. Wells founded this herd about five years ago, buying seed stock from McFarland Bros., Sedalia, Mo. This purchase included much of the Gold Finch strain. The present herd boars are Red Ruler, a grandson of Pearl's Golden Rule, and Waldo's Vindicator, sired by Waldo, he by Gifford's Vindicator. Mr. Wells doesn't need both boars and will sell Red Ruler for a very reasonable figure. The spring pigs, of which there are about 40, are doing fine and will be old enough to price in a short time. In the meantime, should you write, kindly mention Kansas Farmer.

Carl Jensen & Son's Big Polands.

Carl Jensen & Son, the well known breeders of big, smooth Poland Chinas, have about 50 very choice spring pigs sired by different boars, the larger percent by a son of Blue Valley Blue, a full brother to first prize junior yearling at Nebraska State Fair last year. Perhaps one-third of them are by Mogul Again by old Mogul and believed by many to be the equal of his sire. He is a great producer and crossed on the Jensen type of sows proves the old adage that like begets like. In this herd are 10 sows, the equal of which can hardly be found in any herd in the corn belt. They would average 650 pounds each and are real brood sows, about half of them daughters of the famous old Mogul. The Jensens have recently bought a halat interest (Kyle & Son of Mankato buying the other half) in the boar, Giant Chief Price, sired by Long King and out of Lady Giantess by Longfellow H. This is very large breeding and new blood for this part of Kansas and we predict a great future for this purchase. When writing the Jensens please mention Kansas Farmer.

Oak Hill Stock Farm.

One of the best bunches of strictly big type Poland Chinas to be found is that at the Oak Hill Stock Farm, Esbon, Kan. John Hutchinson and family, owners of this stock farm, are among the oldest breeders in their part of the state. The herd is headed at this time by Oak Hill Chief, a litter brother to the prize winning boar, Choice Goods, until recently heading the good herd of J. H. Hamilton & Son, Guide Rock, Neb. Oak Hill Chief is a boar of splendid conformation. Large and having good quality he impresses all who see him. His legs are under the corners and he stands on extra good feet. But the best part of the whole is that he is a producer of the type that all good hog men are looking for. Of the 95 spring pigs about 50 are by this boar. Others are by Hadley Leader, Big Sam and Smith's Big Hadley and out of extra good sows, for Mr. Hutchinson always buys around the top. The six sows bought last winter averaged \$55 each. This herd was established 15 years ago. Oak Hill Stock Farm also maintains a very choice small herd of registered Short-horn cattle and about the finest flock of Black Langshan chickens the writer ever saw. There is already 500 little chicks. When writing please mention the Kansas Farmer.

E. W. Davis & Co.'s Durocs.

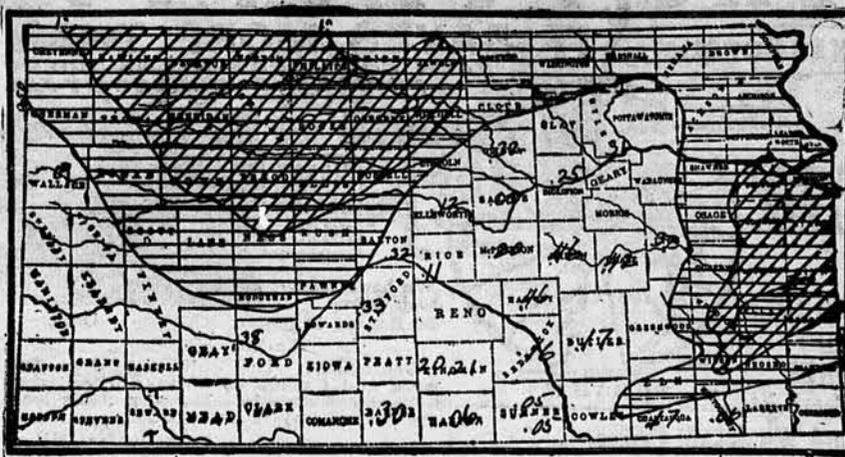
Attention is called to the card of E. W. Davis & Co., of Glenwood, Mo., in this issue of Kansas Farmer. The Duroc herd of Davis & Co. is one of the famous Duroc herds of the West and is undoubtedly one of the best bred herds in the country. Mr. Davis purchased as a foundation the best bred and highest class individuals to be had and each year has added the best in breeding. Among the additions to the herd this year was Model Queen, the grand champion sow at Nebraska State Fair in 1910. This sow was purchased of Putnam & Son of Tecumseh, Neb., and the price paid was \$705, the highest price paid for a Duroc sow during the past two years. The boars at the head of this herd are a trio of splendid individuals. McNeil's Model 6937 by J. D.'s Improver 17095 was the only under one year boar that ever succeeded in winning first at Illinois, Indiana and Ohio State fairs. He is a splendid breeder. Blue Ribbon Chief 56533 by Ohio Chief, another of the herd boars, is an extra heavy boned hog which will weigh 1,000 pounds when fat. He is a splendid breeder and the spring pigs sired by him are an extra fine lot. King of Cois, 2d 22351 by King of Cois, 18075 is another of the herd boars of the right type. He has proven to be a sire of high class stuff. The herd of Davis & Co. is conceded to be one of the best in the country, and they have 160 spring pigs that are all that could be asked. They will hold a bred sow sale July 26 with a very high class lot of tried sows and gilts. Write for catalog, mentioning Kansas Farmer.

The St. John Herd.

One of Kansas' Poland China herds that is well worthy of the attention and confidence of breeders everywhere is that of F. J. Miller at St. John, Kan. Mr. Miller has lived in Stafford county since his early boyhood and his honesty and integrity can not be questioned. Mr. Miller is a young man with ability and he pitched his tent in the right location when he engaged in the breeding of Poland Chinas. He has a great liking for the hog business. He has made a study of pedigrees as well as individuals and every sow on the Miller farm is a good one. The two herd boars used in this herd are King Darkness and Peerless Perfection

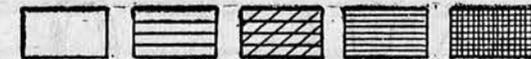
KANSAS CROP REPORT

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



UNITED STATES WEATHER OBSERVER'S REPORTS BY COUNTIES.

SCALE IN INCHES:



Allen—Soil moist. Sunshine normal. Anderson—Fine week for crops. Alfalfa about ready to cut. Barber—Ideal weather for crops. Plenty of rain to date. Barton—Fine weather for harvesting. Few local showers, but need more rain. Bourbon—Crops greatly improved by rain. More rain needed. Wheat looks fine. Corn has good color and ground in fine condition. Butler—Dry weather continues and rain needed. Alfalfa being marketed. Chautauqua—Vegetation drying up. Cloud—Good rain on 21st. Coffey—Corn, wheat and flax looking well. Oats very short. Must have good rains soon. Decatur—Wheat beginning to head but very short. Oats injured. Barley all right. Alfalfa and pasture improving since rain. Dickinson—Dry weather hurting crops. Douglas—Good rains, but more moisture needed. First cutting of alfalfa about half off. Corn averaged good. Elk—Crops of all kinds doing well. Beginning to need rain. First cutting alfalfa. Ellsworth—Continued winds and very little moisture. Wheat suffering. Ford—Rain needed, though crops are doing well. Gove—Drouth broken. Splendid rain, but need more. Greenwood—Oats heading. First cutting alfalfa. Needing rain. Harper—Hot and windy. Rain needed for alfalfa and oats. Crops growing. Harvey—Crops need rain. Wheat in head. Jewell—One inch rain. Fine growing weather. Corn coming up well. Johnson—Dry and hot, slight rain. Heavy rain needed. Corn doing well. Kearney—Very dry and windy. Needing rain. Kingman—Good growing week. Wheat heading and everything on the jump. Lane—Good showers on 21st and 22d, but more moisture needed. Leavenworth—Heavy rain helped crops.

Corn and potatoes looking fine. Linn—Fine rains have put all crops in good condition. Logan—Weather warm with few local showers. Lyon—Ground dried too quickly. Too hot. McPherson—Conditions unchanged, dry and windy. Light rain on 20th. Marion—Few light showers during week. Corn up and cultivating begun. Some alfalfa cut. Montgomery—First crop alfalfa cut. Oats heading. Rain needed. Nemaha—Hot and dry. Alfalfa cutting next week. Corn good stand. Norton—Rain put ground in fine shape. Oats coming out fine. Ottawa—Dry weather very trying on vegetation. Pawnee—Slow rain on Sunday all soaked into ground. Wheat heading out. Corn fine stand. All small grain doing well. Phillips—General rain on 21st. Wheat and oats improved. Rawlins—Good rains on 21st and 22. Corn and feed being planted. Rice—Week dry and windy except for light rain on 21st. Riley—Very hot and rain needed. Good stand of corn. First crop alfalfa being cut. Russell—Very dry and rain needed. Saline—Everything suffering from drouth. Scott—Everything looks good. Sedgwick—Rain needed. Oats and corn making fine progress. Alfalfa being cut. Smith—Rain on 21st. Everything benefited. Fruit fair. Stafford—Wheat, corn and all crops doing fine. Sumner—Hot and dry. Corn holding its own. Cherries ripening. Thomas—Rain and high wind for 20 hours from north. Wallace—Light rain on 22d. Still dry. Woodson—Corn cultivation in full swing. Some cats heading. Rain benefited all kinds of crops. Wyandotte—Soil dry and needs rain.

2d, two grand champions. King Darkness is the sire of more prize winners than any other boar living today. Mr. Miller is planning to hold a sale November 16, at which time an opportunity to buy pigs by these two boars will be given the public. Keep the date under your hat and watch for later announcements in Kansas Farmer. Get your name on the list for a catalog and arrange to attend the sale. Mr. Miller is pricing a few boars and gilts at private sale at very reasonable figures. If you want some new blood in your herd don't fail to write him your wants. Kindly mention the Kansas Farmer.

Lee Stanford of Lyons, Kan.

One of the most prosperous herds of Poland Chinas is owned by Lee Stanford of Lyons, Kan. The blood lines in this herd can not be excelled. Mr. Stanford has always bought the best and has a herd today that any breeder should be proud of. Mr. Stanford is a man with many years' experience in the breeding business. He has always sought the individual first, then the pedigree. At the head of this herd is Smuggler, the best son of E. L. Cloverbud, and out of the noted Poland China sow, Fan-tastic by Impudence. Mr. Stanford is the proud owner of the great show sow, Starlight by Meddler 2d. Starlight was the reserve grand champion at Kansas State Fair at Hutchinson last year. She is a 700 pound sow, one of the best in the state. She farrowed 10 pigs by Smuggler and they promise to be something fine. Mr. Stanford has sows in his herd by Meddler, S. P.'s Perfection, Perfect Challenger and other good boars. He has several sows that will weigh over 500 pounds with litters from seven to nine pigs. Mr. Stanford is not only a feeder. We saw at his place some of the largest pigs regardless of breeding we have seen this year. Mr. Stanford will hold a sale early in November and sell a draft of his Polands, and you will not be disappointed when you see them. Watch for further mention of sale in Kansas Farmer and arrange to attend.

Hoyt a Successful Salesman.

This week we start a card for Col. N. S. Hoyt, the successful live stock and farm sales auctioneer of Mankato, Kan. Colonel Hoyt has been engaged in the auction business for a dozen or more years and has held some of the largest and best sales ever held in northern Kansas. His territory is Kansas and Nebraska and he has made sales as far west as Colorado. Colonel Hoyt has a large acquaintance among the best stock men of the central part of Kansas. He is one of the jolliest and best natured fellows you ever met, he loves the work and has made a success of it. He owns a good farm and backs up his faith in good stock by keeping a good but small herd of pure bred Durocs. He is always on the job. When he books a sale he works every day and some times at night for the success of that sale. He will sell anything from land down to goats and will earn his money several times over. He has open dates and will be glad to consult with parties making fall or winter sales.

Achenbach Polled Durlams.

A Kansas Farmer representative recently spent a couple of hours very pleasantly at the home of the Achenbach Bros., Washington, Kan. This splendid country home adjoins town and the location is such that every convenience of the city can be had. The house and large barn are lighted with electricity. The farm is in an ideal state of cultivation, every foot of it pasture and all having been fertilized time and again with manure made upon the farm. While there are many things and methods connected with this model farm that the successful man might admire and wish to study, the real interesting part of the farm is that it maintains the best herd of Polled Durham cattle to be found in the state. Not the largest, perhaps, but in point of quality second to none in the entire West. The herd, which was established several years ago, now numbers about 75 head, consisting almost entirely of cows and calves. The fact is that the demand is so strong that it is hard to keep the young bulls until they are of saleable age. The Achenbach Bros. give the herd their personal care and attention, feeding liberally the feeds that grow upon the farm and studying the breeding and individuality of the best known families. A great deal has been accomplished and each cross made better than the one preceding it. If interested in this great breed of cattle write Achenbach Bros. for any information and be assured of an honest and intelligent reply. Mention Kansas Farmer when writing.

Frank Kasha's Poland Chinas.

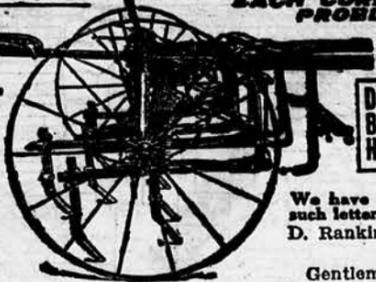
One of the good Poland China herds of central Kansas is owned by Frank Kasha of Washington. Mr. Kasha, although still quite a young man, has accomplished considerable as a breeder of good swine. He has always recognized the advantage of breeding good ones when he bred them for the market alone, special attention was always paid to the breeding and individuality of the stock. The farm is located just a mile south of town and the spring crop of pigs, numbering about 50 head, were mostly sired by Blue Valley Grand, a son of First Look, he by Grand Look. The dam of Blue Valley Grand was Blue Valley Wilkes by Exception. Mr. Kasha bought a few bred sows last winter from good herds, among them one from the George Hamaker herd at Pawnee City, Neb., a daughter of Look Grand. She has a very choice litter by Growthy King, litter brother to Long King's Equal. Mr. Kasha's sows are large and well finished, many of them sired by a previous herd boar called Major A. When writing Mr. Kasha about the hogs, please mention Kansas Farmer.

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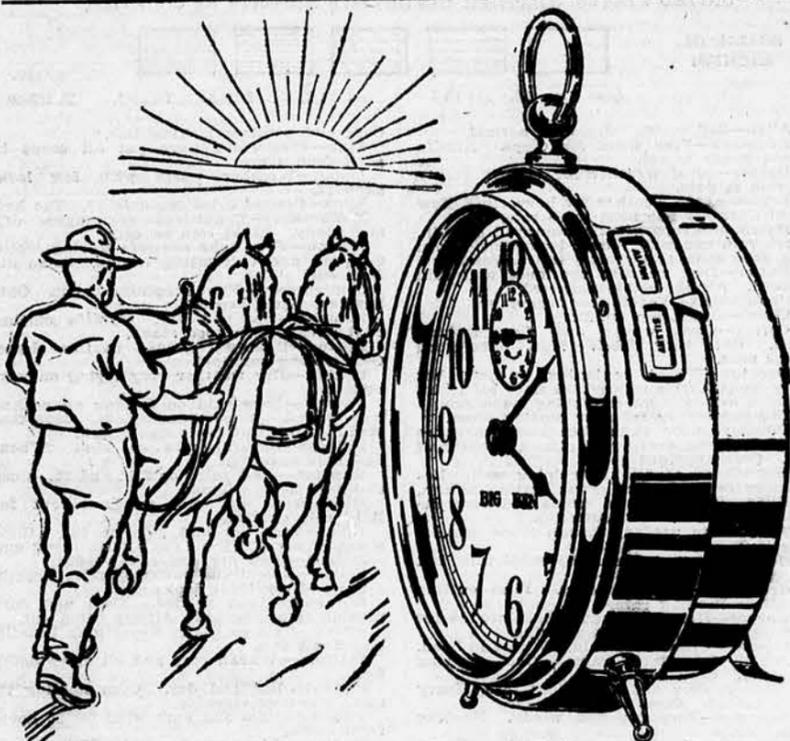


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