

KANSAS FARMER

For the improvement



of the Farm and Home



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STANDARD RURAL SCHOOLS

Requirements of State Board Are Only Minimum Essentials of a Good School

WHEN the legislature of 1915 enacted the law reorganizing the State Department of Education and authorizing the standardization of rural schools, it did so in recognition of the fact that there was urgent need for improvement in our rural schools, and it placed in the hands of the department the means by which it could give more effective aid in working out some of those needed improvements.

Some schools are as good as they can afford to be; others are as good as they want to be. That is to say, they are so weak financially as to be unable to support a good school, or there is a feeling of indifference or smug satisfaction with conditions as they are that effectually bars progress. To schools belonging to the first classification standardization offers little relief, though their need is unquestionably great. Seven rural school districts in Kansas have a taxable valuation of more than \$1,000,000 each, while nearly 900 have less than \$100,000 each. The extremes in valuation run, in round numbers, from \$2,000,000 to \$20,000. In spite of the fact that the weaker districts receive state aid, a goodly number of rural districts last year paid a school tax levy of from 8 to 12 mills on the dollar—often with little in the way of a school to show for it—and one district paid even 15 mills. On the other hand, many of the more prosperous districts paid but a fraction of a mill, and several no school tax at all. I repeat, there is nothing in the program of standardization to relieve the situation of these poorer districts. There is a need beyond their power to meet, and until we come to realize that the education of our youth is not a purely local matter and that it is the duty of "the wealth of the state to educate the children of the state," we may expect little improvement in the condition of these schools.

It is to the schools that come under the second classification that the standard school makes its strongest appeal, and it may be said in passing that this group is larger than the former. Of the seven millionaire districts in the state but three have standard schools, and one—the richest of all—is housed in a building that a good farmer would be ashamed to use as a chicken coop. That old chestnut, "It was good enough for me when I went to school and I guess it is good enough for the youngsters now," is still abroad in the land, though it is heard less frequently as time goes on.

Standardization is an organized effort to arouse and focus community interest in the welfare of the schools. This interest, once aroused and properly directed, will compel needed improvements; and without it no permanent, substantial improvement is possible. The standard school is a direct challenge to the community interest and pride. It does not seek to compel, neither does it offer any special inducement in the way of a bonus or other financial consideration. There is simply placed before the community the ideal of what a good school ought to be, with the hope—and expectation—that it will find lodgement in the minds of the people and that they will desire to

From Address of J. A. Shoemaker, Rural School Supervisor, Before Forty-Sixth Annual Meeting Kansas State Board of Agriculture

do whatever is needed to meet the requirements for standardization.

A standard school is nothing more nor less than a good school. It is not expected to be perfect, but it ought to be good enough to be worthy of imitation by others. It is expected to serve as a definite, tangible example of what may be done in the way of school improvement, and for that reason should be more than just passably good in all the essential particulars. One of the difficult situations the supervisors have had to face in their work is the type of school that is perhaps passably good in all points of building, equipment and teaching, and yet the general impression of the school as a whole is far from ideal.

In prescribing the requirements for a standard school the State Board of Education sought to maintain a reasonably high standard, but they included only what experience has shown to be the minimum essentials of a good school. Many schools today possess more equipment than is required for standardization, but the state board did not wish to make it unreasonably burdensome for any school that was really interested to qualify. In meeting the requirements no school will feel that it is called upon to do anything but what needs to be done, whether it becomes standard or not. The reasonableness of the requirements appeals to the average individual, and the cordial manner in which the people of the state are responding to this challenge has been exceedingly gratifying to the supervisors.

The following are the requirements for a standard rural school as presented by the board:

School grounds at least one acre, and kept in good condition; good approaches to the house; trees and shrubs, where climatic conditions will permit; two well kept widely separated outhouses with screened entrances; convenient fuel house properly located; well where possible.

House well built, in good repair, and painted; good foundation; well lighted, light from left side or left and rear; adjustable window shades; suitable cloak-rooms for boys and girls; attractive interior decorations; good blackboards—slate preferred—set about 26 inches from the floor; heated by a room heater and ventilator properly placed, or by basement furnace which provides for proper ventilation; floor and interior clean and tidy.

Desks suitable for children of all ages, and properly placed; good teacher's desk and chair; good bookcase; a good collection of juvenile books suitable as aids to school work as well as general reading; set of good maps, a globe, and a dictionary; sanitary water supply provided by the district board, thermometer, sweeping preparation; a sand table.

School well organized; classification and daily register well kept; definite daily program; attendance regular and punctual; discipline good.

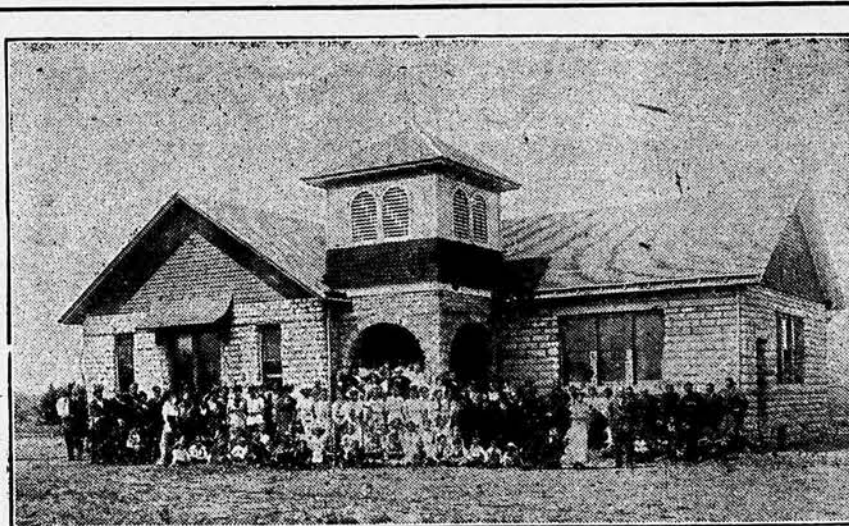
The teacher must hold a state certificate, a first grade county certificate, a normal training certificate, or must at least hold a second grade certificate and be a graduate of a four-year high school; must receive at least the average salary of the county, and in no case less than \$385 per year; ranged by the county superintendent as a good or superior teacher; must read Teachers' Reading Circle books, attend institutes and associations, and in other respects show a proper professional spirit.

Some of these requirements are such obvious needs that it seems almost unnecessary to list them. Yet it is surprising how many well to do schools are almost totally lacking in equipment. More schools than you would think are still delaying the purchase of maps until the European War shall end. It is also surprising how many school boards limit their purchases to that type of equipment sold by itinerant agents which is used to some extent the first year, disregarded the second year, and consigned to the coal bin the third. All the equipment required for a standard school will stand the test of usability.

It will be observed that considerable emphasis has been placed on the physical and material side of the school. Some have suggested that relatively too much emphasis has been placed here and not enough on the purely educational side. After a year and a half of observation in more than eighty counties of the state the supervisors are convinced that, taking the state as a whole, the quality of the teaching is far superior to the physical condition of the school plant. We must not forget that our boys and girls have bodies as well as minds, and it is the business of the school to minister to one as well as the other, for what shall it profit a man if he gain the whole world of knowledge and lose his own health, or what will a man give in exchange for his health? Better school sanitation is a real and vital need. Could we but realize the enormous economic loss to our state every year as a result of physical ills contracted in our public schools, the necessity for emphasis here would be fully recognized.

Within the schoolhouse the three things that have most to do with the physical well being of the pupils, and in one or more of which most schools are deficient, are the lighting, the heating and ventilation, and the seating. The requirement for left side lighting is not the result of guess work, but years of experimenting and numerous tests have demonstrated beyond question that for school purposes this type of lighting is the best. Some concession is made in the case of good buildings of the old type where the school fulfills the requirements in other respects, but a number of these have during the past year found it worth while to close up the windows on one side of the building and bank them on the left. Districts that are contemplating new buildings, if they hope to have their schools recognized as standard, should not disregard the requirement for proper lighting, and in no case should windows be placed in front of the pupils.

In many schools the old time stove still occupies the place of honor in the center of the room, and sometimes a large sheet-iron jacket is built around it so the teacher and pupils may have a merry time playing peek-a-boo. The inadequacy of this method of heating our school rooms has been apparent for so long that no apology is needed for demanding something better in the standard schools.



PATRONS and pupils of College Hill School, District No. 7, Riley County, brought together for the exercises of the closing day of the term. Many well-filled baskets were a part of the program, although these are not in evidence. This school-house is a community center for all the social, religious, and educational gatherings of the neighborhood. Many improvements have been made in the building since the picture was taken, and it now ranks among the first standard schools of the county.

KEROSENE

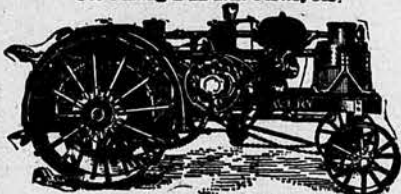
KEROSENE

These Prices on Avery Kerosene Tractors

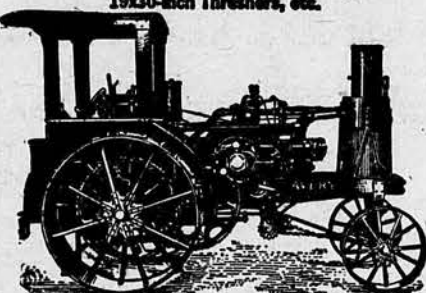
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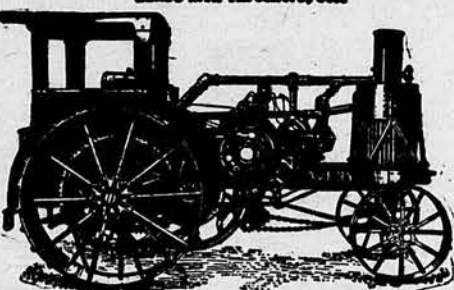
5-10 H. P.—\$365 Cash
For Pulling 2 12-inch Plows, etc.



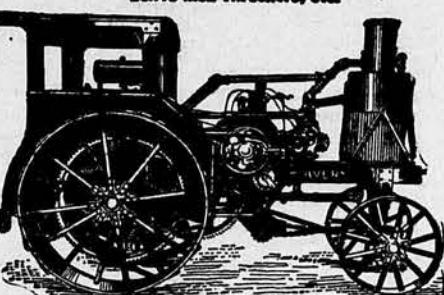
8-16 H. P.—\$700 Cash
For Pulling 3 14-inch Plows, Driving
19x30-inch Threshers, etc.



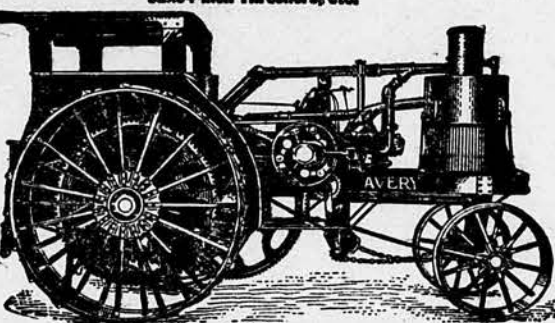
12-25 H. P.—\$1000 Cash
For Pulling 4 14-inch Plows, Driving
22x36-inch Threshers, etc.



18-36 H. P.—\$1665 Cash
For Pulling 5 14-inch Plows, Driving
28x48-inch Threshers, etc.



25-50 H. P.—\$2250 Cash
For Pulling 6 14-inch Plows, Driving
32x54-inch Threshers, etc.



40-80 H. P.—\$2700 Cash
For Pulling 8-10 14-inch Plows, Driving 36x60
42x70-inch Threshers, etc.

THE wonderful success of Avery Kerosene Tractors has brought a flood of orders. We were never able to keep up with the demand last year. For 1917, however, we have greatly enlarged our manufacturing facilities and placed large orders for materials which will enable us to increase our output many times over.

This large output will not only enable us to supply the rapidly increasing number who want to buy Avery Kerosene Tractors but has also made it possible for us to start the 1917 selling season with these prices for early deliveries. In view of the uncertainty regarding material costs, these prices cannot be guaranteed for any certain length of time. The only definite statement we can make is that you can buy an Avery Kerosene Tractor at these prices by placing your order NOW.

Costs Less to Buy—Costs Less to Run

And not only can you buy an Avery Tractor at these prices but you can run it cheaper than any other tractor. All sizes of Avery Kerosene Tractors from 8-16 to 40-80 H. P. burn kerosene. They are all regularly equipped with double carburetors by which you can start on gas and instantaneously switch to kerosene. They all have renewable inner cylinder walls which save you the expense of buying complete new cylinders should the inner walls become worn or scored. They all have crankshafts so strong no owner has ever broken one. They have the fewest gears, the fewest shafts and the fewest bearings of any two speed, double drive tractors built, which means less working parts to wear out. They have no fans, no fuel pumps, no water pumps, no outside lubricators, no belts, no sprocket chains, no counterweights on the crankshaft, no second clutch. You never have any repair expense with these parts on an Avery Kerosene Tractor for they are all done away with. An Avery Kerosene Tractor saves you money in first cost and saves you money in operating and upkeep expense every day you run it.

There Is a Size Avery Tractor to Fit Every Size Farm

You can get an Avery Kerosene Tractor in exactly the right size to fit your size farm. There are five regular sizes—8-16, 12-25, 18-36, 25-50 and 40-80, and a special smaller 5-10 H. P. You can also get an Avery Plow in a size to fit any size Avery Tractor and an Avery Separator in a size to fit any Avery Tractor from 8-16 to 40-80 H. P. We will also begin marketing this spring our new Two-Row Motor Cultivator.

There is real service behind Avery Tractors. They have a design that's fully tested and stands up—they are built in our own large factory. We have our own branch houses located at convenient points where we carry complete repair stocks and maintain a force of trained service men.

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There is no longer any question about the success of tractor farming—it is only a question of getting the right tractor. Write now for new 1917 Avery Catalog, with fine illustrations and clear descriptions of Avery Tractors, Plows, Threshers, etc. Place your order for an Avery Tractor now through the nearest Avery dealer or direct if we have no dealer near you. Get your tractor on the ground early.

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NOTED FRENCHMAN ADDRESSES BREEDERS

Louis Aveline, of Nogent, France, the distinguished French breeder of Percheron horses, gave a most interesting and instructive address at the annual meeting of the Kansas Draft Horse Breeders' Association, held in Manhattan February 9, in connection with Farm and Home Week. Kansas horsemen were fortunate in being able to hear a man so intimately connected with the development of the Percheron breed in its native land. This is the first instance in history, so far as we know, that a prominent French breeder has addressed a gathering of American breeders.

Charles Aveline, the father of the speaker, was at the time of his death a year ago president of the Societe Hippique Percheronne of France. In introducing Mr. Aveline, President Waters said that his father's influence in making the Percheron breed what it is today, was greater than that of any other man who ever lived. The son who inherited his father's breeding establishment, is now in the United States as the French army horse inspector. Over a million horses have been purchased in the United States by the Allies and it has been his duty to inspect those going to the French Government. In his opening remarks, Mr. Aveline said:

"In France everybody is a soldier. In case of war, all must help defend the fatherland. At the beginning of the war, after the mobilization, I went to the Belgium border but had to leave on account of sickness. After three weeks in a hospital I was sent to the United States to buy horses—not to deliver addresses. However, I could not refuse the kind invitation of the Kansas Draft Horse Breeders' Association and I asked from my chiefs a permission which was gladly granted."

We want every reader of KANSAS FARMER, interested in horses, to read what Mr. Aveline said in his address. It will appear in full in next week's issue.

MANHATTAN HORSE SALE A SUCCESS

It was a new venture to hold a consignment sale of draft horses in connection with the annual meeting of the Kansas Draft Horse Breeders' Association which was held in Manhattan February 9. Owing to the fact that the Percheron breed is so much more popular in Kansas than any other breed of draft horses, this sale was made strictly a Percheron sale.

It was clearly demonstrated that good, sound, pure-bred draft horses were in demand and that buyers would pay good prices to get them. Every horse offered was absolutely sound. This is a statement that cannot always be made at a horse sale. Dr. C. W. McCampbell, who was manager of this sale, was a stickler on this point. Consignment sales of any kind of stock too often have been considered as a dumping ground for inferior animals.

The small breeder of horses is considerably handicapped in selling his surplus for what it is worth, and the success of this sale shows that they can sell to good advantage in a sale in which the offering consists of consignments of a few animals from each of a number of breeders. It is essential, however, that the standard be set high and that the manager have the backbone to enforce the rules. Unless this is done, the consignment sale cannot be made a success.

Over twenty thousand dollars' worth of horses were sold at this sale. The top price was \$1,005 for the five-year-old stallion Vaughn, sold to Joe Spena, Wakeeney, Kansas. The twenty-four stallions sold averaged \$525.20. The top mare was Galette, sold to D. F. McAlister, Topeka, for \$800. The average for the seventeen mares sold was \$471.76. Only four of the animals sold went outside of Kansas.

RAISE MORE SHEEP

"Raise sheep" was the advice of F. R. Marshall of the Federal Bureau of Animal Industry, who addressed the Kansas Sheep Breeders' Association's annual meeting held at Manhattan during Farm and Home Week. Unusual interest was taken in this meeting. In the past other interests have been so strong that

the attendance at the sheep program has been light. This year, in spite of the fact that the State Dairy Association was holding a session at the same time, the sheep breeders' program was well attended.

"It is now time for the live stock farmer to make sheep raising one of his regular lines of production," said Mr. Marshall. "Putting aside the effects of war conditions, prospective values of lambs and wool render sheep raising fully as safe and attractive to the man who will study and understand the business, as is the raising of cattle, horses, or swine.

"Prior to 1914 such a statement as this would not have been justifiable. Assured meat values of the future, the need of greater economy in the use of farm labor, and the full utilization of pastures place sheep raising in an entirely new light.

"Some agricultural journals and other authorities have been inclined to question the safety of engaging in sheep raising and base their ideas upon statistical facts of decline in popularity of sheep in eastern states. Such statistical deductions are entirely misleading, as no where is there an instance in the United States of a decline in a well-established sheep husbandry based on the production of both meat and wool."

A. L. Stockwell of Larned, Kansas, was elected president for the ensuing year; Henry Schloch, Natoma, vice president, and A. M. Patterson, Manhattan, secretary-treasurer.

ASSOCIATIONS HOLD ANNUAL MEETINGS

Meetings of various agricultural and live stock associations constitute an important feature of Farm and Home Week. Never has the interest been greater in these meetings than it was this year.

H. N. Vinall, office of forage crops, United States Department of Agriculture, and W. W. Burr, professor of agronomy, Nebraska Agricultural College, were well-known speakers on the program of the meeting of the Kansas Crop Improvement Association. Practical papers were read and demonstrations given by local agricultural college specialists.

Officers elected follow: President, Carl Wheeler, Bridgeport; vice president, J. J. Johnson, El Dorado; secretary-treasurer, B. S. Wilson, Manhattan. Members of the board of directors are L. E. Call, Manhattan; Harry Umberger, Manhattan; John Brox, Atchison; R. A. Muir, Salina; and L. C. Swihart, Lovewell.

Demonstrations were a feature of the meeting of the Kansas State Dairy Association. William Newlin of Hutchinson was elected president; George Lenhart of Abilene, vice president; and J. B. Fitch of Manhattan, secretary-treasurer.

Resolutions were passed commending the efficient work of the dairy department of the agricultural college in experimental work and in establishing cow testing associations.

John M. Evvard, assistant chief in animal husbandry, Iowa State College, Ames, discussed feeding and other problems at the annual meeting of the Kansas Swine Breeders' Association. The organization was much strengthened at the business meeting. Fred Laptad of Lawrence is the new president and Carl P. Thompson of Manhattan is secretary-treasurer.

Vice presidents and the respective breeds of swine they represent follow: H. P. Walters, Effingham, Poland China; George M. Klusmier, Holton, Duroc Jersey; George Porteous, Lawrence, Berkshire; J. E. Powell, Waldron, Hampshire; Arthur Mosse, Leavenworth, Chester White.

SOUTHEAST KANSAS LIVE STOCK MEETING

"More and better live stock" is the slogan of the Southeast Kansas Live Stock Association. A two-day program will be given in Fredonia, February 20-21, at which the importance of more and better live stock on every farm in that section will be emphasized from the opening number Tuesday morning until the close Wednesday evening. For four years this association has been a factor for progress along better and more profitable farming lines in Southeast Kansas. Last

year over five thousand people were in attendance at the annual meeting. An even larger attendance is expected this year. The best breeders and live stock men of that section of the state are identified with the movement.

In the conduct of the program this year the members of the association, the commercial club of Fredonia, the agricultural college, and the United States Department of Agriculture are co-operating. There will be a large live stock exhibit in connection with the meeting, not only to show what is being done in live stock improvement, but to furnish material for instruction in judging and selecting good stock.

Live stock is important in all parts of Kansas, but in this section of the state it is almost imperative that live stock be made the basis of farming operations, and we would urge that all our readers in the counties convenient to Fredonia take advantage of this opportunity to get in touch with the most successful and economic practices of handling live stock on the farm.

WICHITA THRESHER AND TRACTOR SHOW

The fifteenth annual Inter-State Thresher and Tractor Show of Kansas, Oklahoma, and Texas, which will be held in Wichita, February 22, 23, and 24, will be the biggest exhibition of its kind ever held in that city. The present indications are that more power farming machinery will be shown there this year than at any other similar exhibition in the United States. All kinds of accessories of power farming and threshing will be included. All the manufacturers having machinery to sell in this territory and the Southwest will have their 1917 models at the Wichita show. Most of the leading companies have branch houses in Wichita and F. G. Wieland, the secretary-treasurer of the Wichita Thresher and Tractor Club, announces that over a million dollars' worth of power machinery will be on exhibition.

Wichita's splendid forum or convention hall will be the headquarters for the convention feature of the show. This is the seventh largest hall of its kind in the United States.

No admission will be charged to any part of the show and a free entertainment will be given visitors on at least two evenings.

MILK CONTEST HONORS WON BY DAIRY CLUB

The Kansas Farmer Dairy Club was very much in evidence in the market milk contest held in Manhattan last week under the auspices of the Kansas State Dairy Association. Fully two-thirds of the samples shown had been sent in by boys and girls of the Dairy Club. They had to meet the competition of experienced producers of market milk who have been sending exhibits for a number of years. Premier honors were awarded to Harold Bentz, a Peabody boy, who not only sent his milk but came himself, having won three-fourths of his expenses to Farm and Home Week in a corn contest in his community. His prize was a Sharples hand separator valued at \$60. Theresa O'Mara of Colony, Kansas, won a sanitary milk strainer offered by the Topeka Pure Milk Company. We will later give a full report of this market milk contest. The members of the club may well be proud that one of their number stood at the top.

Judging from some conversation which we overheard between members of the Dairy Club who were in attendance at the Farm and Home Week meetings, some at least of these boys and girls are making a most serious effort to produce high class market milk. Through the instruction they have received in the columns of KANSAS FARMER, they have come to recognize that milk is a human food and they are giving it the kind of care necessary to make it safe and wholesome for the consumer.

The actual registration Farm and Home Week was 1,307. At least 500 persons did not take the trouble to register. The increase in attendance over the meeting held in December, 1915, was 500.

FARM PRODUCTION OF BEEF

Quality and Character Combined With Size Essential Points in Breeding Herds

By Dan D. Casement, Before Annual Meeting
Kansas Improved Stock Breeders Association

IN THE founding of a herd or in its subsequent improvement, I believe the vital objects that should be kept in mind constantly are quality and character, always coupled with size and scale; for your purpose is to produce a beef animal and, since beef is bought by the pound, excellence of quality can never entirely compensate for lack of bulk.

My own experience as the owner of a breeding herd of grade cows has covered a comparatively short period of time and I hesitated when asked to address farmers on the growing of beef cattle. My views on this subject must be regarded merely as the result of personal observations covering the past six years, for it is during that time only that I have owned a small herd of grade cows. Those years have been for the most part fortunate ones for the breeder. The demand for breeding cattle has been active and prices have steadily increased. How much longer these conditions will continue it is impossible to predict, but normally one would be justified in believing that the summit of high prices has been reached when unregistered heifer calves sell at \$100 each, as they did recently in Denver. Certainly it would not be advisable to found a herd on the expectation of a long continuance of present prices.

However those who are already started with a good bunch of dairy cows are fortunate indeed. They should take full advantage of prevailing conditions and at the same time prepare as best they may for a future when the product of their herds, in all probability, will not command as good prices as it now does.

In any event there are certain purposes which, I think, should be common to all, and certain methods of management which, I believe, may be fairly regarded as universal rules.

By character we mean that intangible thing that a herd of cows and their progeny possess when they have been bred for years along correct lines. It is most noticeable in some of the large herds of the range states where an intelligent breeding policy has been consistently followed for years. Although hard to describe, it is easily recognizable. So strong has it become in some instances that it is no exaggeration to say that droves of steers from certain well known herds can be identified, no matter in what unexpected quarter they may be encountered, almost without seeing the brand. Uniformity, of course, is the striking requisite to character. Your calves will always sell at a disadvantage when they lack this essential.

Quality, too, is a thing that can be recognized in an instant but not described in a word. It implies good conformation, straight lines, a broad head, a placid eye, a loose, mellow hide, soft hair—in short, all of the numerous characteristics by which you are assured that the bullock possessing them will finish quickly and economically and handsomely and will do his full share toward returning a profit to his feeder.

HOW TO START GOOD HERD

How, then, are we going to breed up a herd of beef cows in the surest and most rational way that will have these characteristics and reproduce them? We may start with such cows as we have at hand and, by the use of well selected bulls, produce a uniform, attractive and profitable herd. But this takes a long time. The quicker and easier plan is to start with heifers of the right type and mate them with the right bull. Fix in your mind a definite ideal of the kind of animal you wish to produce. If you happen to know some successful breeder who has already attained that ideal, you could not do better than to cultivate his confidence, apply his methods and act largely on his advice. There will inevitably be disappointments but they will not be unprofitable if we take to heart the lessons they teach.

The right bull is, of course, the all important item. If your observation has convinced you that certain blood lines are essential to the ideal you have in mind, it would be well to adhere closely to those lines. By that policy your herd will most quickly acquire character. The purchase of a cheap bull is almost invariably poor economy. The right bull is always desirable and, con-

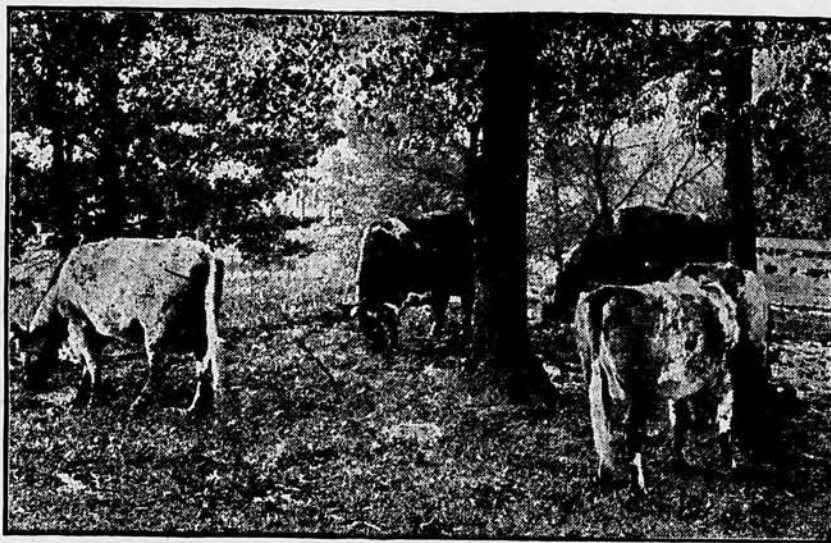
sequently, generally high priced. But for our purpose he does not need a record on the show circuit. Indeed, such an experience, probably, will have disqualified him completely for our use. But if he has the blood and the exact qualities you seek, without having his digestion impaired and his frame overloaded for a show career, get him if you can at such a price as circumstances and the size of your cow herd will justify.

With a definite ideal in mind, and with promising animals out of which to attain it in hand, the question of their management may next be considered. In this regard one's policy will, of course, vary with circumstances and conditions. I can only state the plan that I have found most convenient and profitable. The foundation of the small cow herd that is

can be minimized and a maximum calf crop secured. In late July or August it is advisable to build a creep in the pasture near water where the cattle congregate. A self feeder inside of the creep can be filled with shelled corn and oats and here the calves may learn to eat grain. Thus the hardships of weaning may be anticipated and reduced to a minimum.

IMPROVE BY CULLING CLOSELY

The character of the herd should be constantly strengthened and improved by placing the least desirable animals with the top heifer calves of its annual product. The best time to select the cows to be discarded is before weaning the calves. Thus the usefulness of a cow can be estimated accurately by the kind of calf she has at her side. A cow



QUALITY COWS ESSENTIAL TO PRODUCTION OF HIGH CLASS MARKET ANIMALS

now on my farm was a bunch of Colorado heifers bought as yearlings in the spring of 1911 after wintering on Vega hay on an old Mexican grant in the San Luis Valley, where their ancestors had run for twentyfive years or more. Vega hay is not a good ration for calves and accordingly these yearlings averaged only 328 pounds when they came out of the cars at the end of their journey about May 1. They certainly had a poor start in life except in one important particular. Back in the eighties, the herd from which they came had been owned by a remarkably clear-sighted and conservative breeder. He had started with a bunch of registered Hereford cows and had persistently mated them with registered bulls of the blood and type that he fancied. This policy had been continued in a general way by his successors.

By thus going into detail concerning my own start I merely wish to emphasize the importance of the most desirable attribute that attached to these little half-starved calves and to indicate how it had been fixed in them. That attribute was character, and the man responsible for it was George Adams, who laid a foundation for the L. C. herd that has stood the test of time and changing fortune.

The following spring these heifers were bred as two-year-olds to three good bulls all carrying similar blood lines. The bulls were turned with the cows on June 1 and were taken out ninety days later. This plan insures uniformity of size in the calf crop and simplifies herd management, as the calves can all be weaned the same day, leaving no "shorts" to carry through the winter on their mothers. If the bulls are young and the cow herd is of such size as to require more than one, it seems a good idea to turn them out singly on alternate days, feeding a little grain on the day of rest. This plan would apply only when the pasture is less than a section in size and the cows not too numerous. In this way harmful and useless duplication of function

that has brought an inferior calf by a good bull should be marked for rejection, no matter how attractive she herself may be as an individual. Such cows, with those that are known not to be with calf at weaning time, should make up the bulk of the annual discard.

After weaning the calves, the cows can go into winter quarters and be maintained on an abundance of rough feed. Alfalfa, with some corn fodder or the occasional use of a stalk field, will serve; or silage balanced either with alfalfa or a light allowance of cottonseed meal. Whatever roughage is used, they ought to be kept full and contented. In this way they can be well wintered at the least possible cost and will consume much rough feed that could not otherwise be readily disposed of.

STRONG DEMAND FOR BREEDING STOCK

The logical way to handle the calves will depend on a variety of circumstances. Their breed, their quality, the requirements of the market and the cost of feed are all factors that should influence the determination of the most desirable method of handling them.

As to breed, that question will have been settled, probably, at the outset by the personal inclination of the breeder, or perhaps by his inherited preference for Shorthorns or Herefords or one of the black polled breeds. If he has been so fortunate as to choose the breed that is now almost universally recognized as the one best adapted to the conditions of Texas and the range states, and if his herd is of the requisite quality, he can find for a time, at least, a profitable outlet for the best of his male calves as bulls to supply the western and southern demand. If such is his intention, careful selection of calves chosen for this purpose and strong feeding from weaning time until sold are matters of the utmost importance. As an indication of the rewards that have attended this practice for the past four years, I might state that approximately half of the four crops of bull calves from my herd have changed hands on the Denver market at a gross average price of more

than \$140 each. However, it can not reasonably be expected that this outlet will be much longer available. Among the better herds of grade Herefords in Kansas and the western states, the custom of saving male calves to sell as bulls has become so common as to have affected very noticeably and adversely the quality of the white-face steers that are now marketed from this territory. It is a matter of only a little time until this outlet will be permanently closed, for registered bulls are rapidly increasing in numbers and some of the western states and many local live stock associations are discriminating by laws and rules against the use of unregistered bulls on their ranges. When this demand ceases there will come out of the West in large numbers, steers of such quality as we have never seen before, and it is this impending competition that we must be prepared to meet with the steer product of our Kansas cow.

KEEP BEST HEIFERS AS BREEDERS

In the disposition of the calves a matter of prime importance is the selection of the top heifers for replacements in the cow herd. These should be selected with the greatest care in such numbers as circumstances and a well matured plan may dictate. If you choose the deepest, most feminine and motherly looking ones, you can not go amiss. They should be well maintained until spring with at least three or four pounds of shelled corn per head per day, and all the good alfalfa they will eat, or an equivalent silage ration properly balanced with cottonseed meal and supplemented with some dry roughage. They should be kept in a separate pasture away from the bull during their yearling summer. Whether or not it is advisable to breed them that fall I am not prepared to state. My experience in this regard has not been such as to warrant the recommendation of the practice. They can be thrown in with the cow herd and safely become part of it at the beginning of winter.

A second selection of heifers, if they are only slightly inferior to the top cut, may be sold most profitably under present conditions as breeding stock. The demand for females of one of the breeds, at least, is just now unprecedented; but a little time will change this state of affairs.

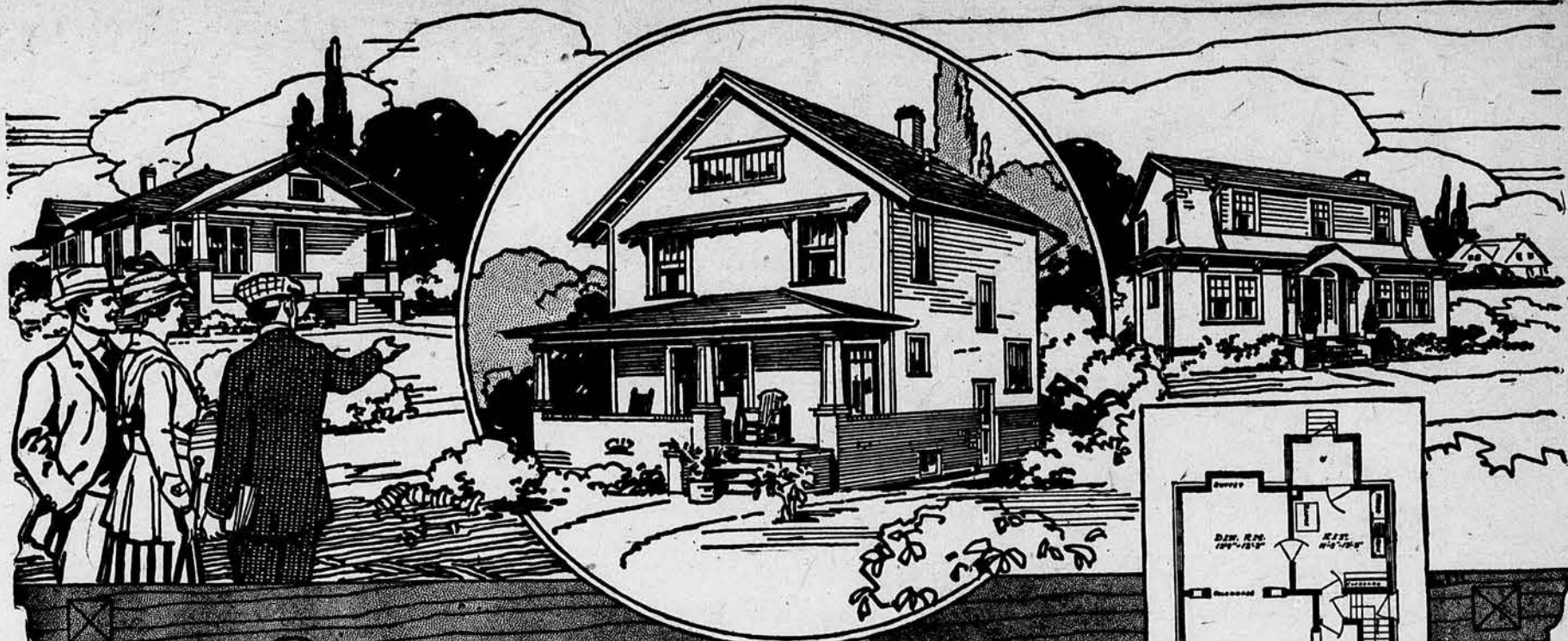
As to the remainder of the calf crop, the whole tendency of the times seems to be toward making beef quickly with young animals; and so it is likely that a popular practice of the future will be to feed calves of both sexes to a quick finish. In fact, the custom is extensively followed today. In an age that puts so high a premium on economy and efficiency and emphasizes so strongly the value of time, it is logical to believe that the policy of making a 900-pound beef steer in fifteen months will commend itself to the up-to-date breeder and feeder as more logical than the old plan of growing an animal to weigh only 300 or 400 pounds more than this at the end of four years.

FINISHING CATTLE FOR MARKET

If the breeder adopts the custom of making baby beef, the greatest attention should be given to excellence of finish and economy of production—two items that are very difficult to successfully harmonize and obtain simultaneously. Close study of the experimental work of the agricultural colleges and their demonstrations along these lines will be found to be of the greatest assistance. The Kansas Experiment Station has now in progress for the third year work of this kind that every feeder will find most instructive. Two bulletins giving the results of this work are already available and on June 1 a third demonstration in full feeding calves will be concluded. All who are interested in this subject should be sure to attend the meeting that will be held here at that time.

The tendency of the present age seems to be toward specialization and it is probable that in the future the occupations of breeder and feeder will be separated more distinctly than has been the case in the past. Possibly the breeder will more and more incline toward running his farm and pasture to their entire capacity with breeding cows, sell-

(Continued on Page Twelve.)



Why Some Wives Fall Short of Their Own Ideals as Home Makers

Some wives and mothers are proud of the homes they have made for their families. Others grow old trying, yet they never realize their ideal. Why? Because they never had a fair show.

It takes three things to make a home you can be proud of—an exterior that is architecturally good, an interior that is conveniently planned, and woodwork that is made with but one aim—"Quality First."

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succeed more easily with your work and ideals.

These books show also a few designs of CURTIS Woodwork. The many other designs you can

see in the big Curtis catalog at your lumber dealer's. This catalog is just out. It contains the most modern and most attractive designs for sale today. Quality considered, every one is a bargain.

Go to your lumber dealer's and see these designs. Probably he can show you

some CURTIS Woodwork. You will know it by the trademark which is on every piece. Consult him about your home. He can help you with your plans.

But send the coupon now for your choice of these Home Books—"Better Built Homes," Vol. II—\$2700 and under; Vol. III—\$2700 to \$4500. Which shall be our gift to you?

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Even the tenant farmer can buy and use one of these models profitably. Cut the cost of feeding idle horses. Speed up spring work—get crops started on time. One La Crosse Happy Farmer Tractor can do the work of 6 to 8 horses, and do the work better.

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We have a Distributor in your vicinity for prompt service.

MODEL A
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Model B is strictly a kerosene burner; equipped with Hyatt Roller Bearings. Twin Cylinder Motor. Really a sensational value at a low price.



Ironclad

Wins in the Two BIGGEST HATCHING Contests Ever Held



Why take chances with untried machines when for only \$11 we guarantee to deliver safely, all freight charges paid (East of Rockies) BOTH of these big prize winning machines fully equipped, set up ready for use! Why not own an Ironclad—the incubator that has for two years in succession won in the greatest hatching contests ever held. In the last contest conducted by Missouri Valley farmer and Nebraska Farm Journal, 2000 machines were entered, including practically every make, style and price. With the Ironclad—the same machine we offer with Brooder, freight paid, for only \$11, Mrs. C. F. Merrick, Lockney, Texas, hatched 143 chicks from 143 eggs in the last contest.

Both for \$11
Freight Paid East of Rockies

30 DAYS' FREE TRIAL
Money back if not satisfied.

150-EGG Ironclad Incubator
Don't class this big galvanized iron covered, dependable hatcher with cheaply constructed machines. Ironclads are not covered with cheap, thin metal and painted like some do to cover up poor quality of material. Ironclads are shipped in the natural color you can see exactly what you are getting. Don't buy any incubator until you know what it is made of. Note these Ironclad specifications. Genuine California Red wood, triple walls, asbestos lining, galvanized iron covering. Large egg tray, extra deep chick nursery—hot water top heat, COPPER tanks and boiler, self regulator, Tyco's Thermometer, glass in door, and many other special advantages fully explained in Free Catalogue. Write for it TODAY or order direct from this advertisement.

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MADE OF CALIFORNIA REDWOOD

FARM SEEDS —AT FARMER PRICES—

WE CAN SAVE YOU MONEY

on your Farm and Garden Seeds, if you will write us and tell us what you want. All our high grade seeds are sold subject to government or any state test. Don't pay two or three profits between you and the man that grows the seeds, but send direct to us and we will save you a lot of money in the purchase of your seeds. We offer attractive prices on Alfalfa, Red Clover, Sweet Clover, Timothy, Alsike and other Clovers and Grasses. Can also make you low prices on all the best varieties of Seed Corn, Spring Seed Wheat, Oats, Barley, Speltz, Cane, Kafir Corn, Billion Dollar Grass, Millets, Rape, Vetch and all kinds of Farm and Garden Seeds. Write us—give us a list of seeds and quantities wanted and ask for our Big Catalog. IT'S FREE. It tells you all about everything you want to know and should know, to make farming pay. Dig Mother Earth—you will never see this great prosperity again.

Address: JEFFERSON-RATEKIN SEED CO., Jefferson, Iowa.

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PARTS For Kansas REPAIRING

SHAWNEE CYCLE CO. TOPEKA KANSAS

Kansas Farmer Dairy Club

This Boy's Father Interested

WE HAVE had a pleasant visit with the father of one of our Dairy Club members the past week. This father is just as interested in his son's success in the work as though it were his own.

We were much interested in his opinion of the business training the club offers. He thinks this one of the most important features of the work. Remember this, boys and girls, when it seems hard to make out your records just right. He said it is hard for his son to remember that the records should be in this office by the tenth day of each month, but this father helps his son to remember and then when the records are finished he passes upon them to see whether or not they are neat enough to send in.

Maybe it is not possible for all of you to have this much help from your fathers, but there is one test by which you can always tell whether or not your records are neat enough to send in and whether or not they are correctly made. If you do your very best on each record, it will be good enough. This means that you must first weigh carefully each milking and put down the weight right then—before you forget the number of pounds or the fraction of the pound over—you must know the amount of each different kind of feed given your cow and put this down each day. These two things can be done best by having a milk record and a feed record tacked up on the wall close to where you weigh your milk and your feed. Then at the end of the month these records should be carefully copied for us and for the bank, you should figure the amount of butter fat as soon as you receive the test from us—which is always in time to have your records reach us by the tenth—and send them to us promptly, addressed "Kansas Farmer Dairy Club, care of Kansas Farmer, Topeka, Kans."

This may sound like a good deal of work but it isn't unless you make it hard by putting it off and not doing it regularly. It is easy to do it then, for you know the exact figures to put down and it takes only a few minutes to write them. At the end of the month if your figures are all on the records, plainly written, it will not be hard to add them and set down the totals.

This father also told us that his inspection of his son's records and letters for neatness has resulted in the boy becoming a much better writer because he has tried harder.

You see, all the things this father is anxious to have his son do are things that will be of help to him long after he has finished his year's work in the Dairy Club. There are many things about the work of this club that will help all of you in later years, and we have hoped all along and have planned to make the Dairy Club as useful to you as possible in learning business methods and business principles. Upon the way you do the work of the Dairy Club, or any other work which you undertake at this time, depends the way you will handle other and bigger things as you grow older, for you are forming habits now which will become a part of you.

Will Send Milk for Contest

Your letter of January 27 at hand and contents noted. I am planning to enter

milk in the contest at Manhattan February 5.

I am once more going to get a picture of my cow and myself today and will send it to KANSAS FARMER as soon as I get it. I have had a number taken but have failed to get a good one so far.

My cow is doing fairly well. Her flow of milk last month was not so good but tested higher. I am selling all the whole milk I get.

I am afraid I shall never learn to love my cow. She is a big red cow and does not seem to care for anything but her feed and herself. Another reason I don't like her is that she is a coward. When I am leading her home if we chance to meet a soldier in a blue uniform she gets very much frightened and tries to run. If I try to milk her she kicks me clear off the milk stool every chance she gets. I learned to milk when I was a small girl, but never found a cow so hateful as this one. I do so like a kind and gentle cow. One of these days I am going to get a blue uniform and show her who is boss.

Wishing all the Dairy Club members success.—MAHALA SMITH, Leavenworth County.

Bad habits in a dairy cow are usually the result of bad treatment. In all probability someone abused this cow when she was a calf or when she was being trained to be milked or possibly when she had sore teats. To be successful with dairy cows, you must always be gentle with them. We have been in dairy barns where the admonition to treat a dairy cow as you would a lady, was displayed prominently on a bulletin board. The way to have gentle milk cows is to treat them kindly from calf-hood up. After once spoiled by bad treatment it is hard to break them of their vicious habits. Such cows are a nuisance in a dairy herd and they do not give as much milk for the feed they eat as do cows that have always been handled with kindness.

Will Send Milk to Manhattan

Shall answer your letter right away before I forget it again. Am feeding my cow all the hay and silage she will eat. She does not eat as much silage now as she used to. My cow will be fresh the sixteenth of April. She is now giving from 25 to 30 pounds of milk.

I would like to go to the institute at Manhattan this year, but so far as I know now, I will not go. My brother is going and so I will have to stay at home to do the chores. We have fourteen cows to milk and that will be too much for the rest who are at home.

Am glad to join the contest to have the milk of my cow inspected.—ELISE REGIER, Butler County.

In addition to the roughage, Elise feeds corn chop, bran and linseed oil meal.

I want to congratulate you on taking the stand for dairying that you have. 'Tis a step in the right direction and I only hope the time will come when it will be wholly a dairy paper.—R. E. WELCH, Sabetha, Kansas.

Dairy Club Members Win Prizes in State Milk Contest

HAROLD BENTZ, Peabody, Kansas, was awarded first prize in the state milk contest in connection with Farm and Home Week at the Kansas Agricultural College. Theresa O'Mara, Colony, Kansas, was awarded sixth place among the winners.

To say we are proud of the showing made by our Dairy Club members in this milk contest, does not begin to express the way we feel about it. These boys and girls competed with mature and experienced exhibitors of market milk, some of whom have held first places in this contest in other years. As we looked at the exhibit we were proud to find that so many of you had sent in your samples according to the rules of the contest. You made a very creditable showing and we are sure when the particulars come many of you will have good scores even though you didn't win prizes.

Harold's prize is a Sharples tubular separator, valued at \$60, given by the Sharples Separator Company.

Theresa's prize is a sanitary milk strainer and one pound of absorbent cotton, valued at \$2.50, given by the Topeka Pure Milk Company.

Three cheers for the prize-winners and for the Dairy Club.

13 Years of Big Hatches For Less Than 20c Each

—And Good For Many Years More

Our oldest Old Trusty are now 13 years old and still in use. For example figure Old Trusty at \$10. Thirteen years' use would be about 77c per year and if four hatches per season were made, each hatch would cost about 19½c per hatch. That makes a pretty low cost for big hatches in



Old Trusty
And big hatches are easier than ever with the new conveniences in Old Trusty. Note the handy thermometer holder and the big oil drawer that is instantly removed but doesn't have to be removed to fill, nor is it used as a leg brace. Saves time and work. Quick shipment from factory at Clay Center, Neb. or warehouses in St. Joseph, Mo. or Seattle, Wash. We pay the freight and guarantee safe arrival.

Book Free \$9.60 Buy our Old Trusty "Special" with redwood case, freight paid east of Rockies. A trifle more farther west. Write today.
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Give Me 20 Minutes a Day

FOR 3 WEEKS—and let me put you in the money-making class with a

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INCUBATOR AND BROODER

Backed by 23 years' experience. Cabinet made. Hot water heating plant. Poultry lessons free. Ask about our Poultry and Eggs; and "Successful" Grain Sprouters. Famous little booklet, "Proper Care and Feeding of Chicks, Ducks and Turkeys," 10c. Big catalog FREE. J. A. Gilbert, Pres. and Gen. Mgr. Des Moines Incubator Co. 53 Second St., Des Moines, Iowa



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Our superior grade of work costs you less than the ordinary class of work. Write for free catalog, giving you all information. Address

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Only 1 gallon of oil, 1 filling of tank to a hatch. Saves time, money, labor. Double panel glass top makes it easier to cool eggs, easier to air and clean, easier to operate. Automatic heat control, special moisture and ventilation features. Get free catalog and special offer. RAYO INC. CO., U.D. Ste 6251 Omaha, Neb.

DAY-OLD CHICKS

of quality guaranteed to 1,500 miles. Eggs for Hatching at low prices. Bar. Rocks, S. C. W. Leghorns, S. C. and R. C. Reds, W. Wyandottes, Buff and W. Orpingtons. Chicklet catalog free. **GOSHEN POULTRY FARMS, R 37, Goshen, Indiana**

During the hatching period carefully fill the incubator lamp and trim the wick each day. It is best to trim the wick by scraping or pinching off the burnt portion rather than by cutting the wick. The lamp should not be filled too full. After it is filled it should be closely watched for a time to make sure that the flame does not get too high. A good way to avoid this is to turn it up high in adjusting and then draw it down until the flame is about right.

One Woman's Poultry Success

JANUARY 1, 1916, I started with one hundred fifty pure-bred Buff Orpington hens and pullets. I prefer the pure-bred poultry to mongrels as the pure-breds are more beautiful, lay more eggs, there is a greater demand for both the poultry and eggs and they bring higher prices on account of their uniformity of size and color.

By June 1, I had disposed of a little more than half the hens. My receipts for the year from the sale of eggs, fryers, breeders, and poultry on the common market, were \$554.18. My feed cost for the year was \$312.80, which left me \$241.38 for my year's work with the poultry. I also had 145 birds to start with January 1, 1917.

In addition to taking care of the poultry, I do my own housework, have the care of an invalid mother, milk and care for a cow and look after five lots. Two of the lots I plant to garden, one and one-half lot is taken up with the barnyard, and the balance of the ground is in alfalfa, bluegrass, berries, etc. All this ground must be cared for during the summer, so I do not spend all my time with the biddies.

In the morning I feed the hens wheat and kafir mixed in their scratching material to the amount of one handful to each bird. Part of the time at noon I feed a dry mash composed of 10 pounds shorts, 10 pounds bran, 5 pounds corn meal (fine), 3½ pounds beef scraps, 3 pounds bone, 3 pounds linseed meal, 2 pounds oyster shell. When I do not feed this I boil table scraps, peelings, small potatoes, other vegetables, etc., and scald a mash composed of 1 part corn meal, 1 part shorts, 2 parts alfalfa leaves, 2 parts oats, 3 parts bran, and a small amount of beef scraps. This makes a good laying ration and the hens relish it for a change. During cold weather I feed them all the corn they will eat for their supper. I keep plenty of fresh water, grit, oyster shell and charcoal before the birds all the time. I seldom ever have a sick bird or lose one except through accidents.

Poultry raising is not only profitable work but healthful as well, as it takes one out in the fresh air, and any intelligent man or woman can do the work. Though the work is not very hard, a lazy man will never make a successful poultryman. The key to success with poultry is good care, a liking for the work, and strict attention to details at all times.

If poultry is profitable as a side line without the proper equipment or room and where every bite of feed has to be purchased, then it certainly ought to be profitable if followed as a business, especially on the farm where so much grain would be wasted if it were not for the poultry and where the chickens have free range and can pick up half of their living during the greater part of the year.—MRS. GEORGE D. PAGE, Riley County.

Wonderful Egg Producer

Any poultry raiser can easily double his profits by doubling the egg production of his hens. A scientific tonic has been discovered that revitalizes the flock and makes hens work all the time. The tonic is called "More Eggs." Give your hens a few cents' worth of "More Eggs" and you will be amazed and delighted with results. A dollar's worth of "More Eggs" will double this year's production of eggs, so if you wish to try this great profit-maker, write E. J. Reefer, poultry expert, 4639 Reefer Bldg., Kansas City, Mo., who will send you a season's supply of "More Eggs" Tonic for \$1.00 (prepaid). So confident is Mr. Reefer of the results that a million-dollar bank guarantees if you are not absolutely satisfied your dollar will be returned on request and the "More Eggs" costs you nothing. Send a dollar today or ask Mr. Reefer for his free poultry book that tells the experience of a man who has made a fortune out of poultry.—(Adv.)

The advertising columns are an important part of the paper—to the readers, we mean. The reliable paper carries only reliable advertisers and the reader can buy at this market place with safety. It pays to advertise and to read the advertisements in KANSAS FARMER.

The figures in the office of the Live Stock Registry Board show that Rice County leads in the number of pure-bred stallions registered in Kansas in 1916, 80 per cent of its seventy stallions standing for public service being in this class.

For Fords

Less Carbon Less Heat

Every make of automobile has its minor operating problems. Among Ford owners two such problems are: Carbon troubles and Overheating.

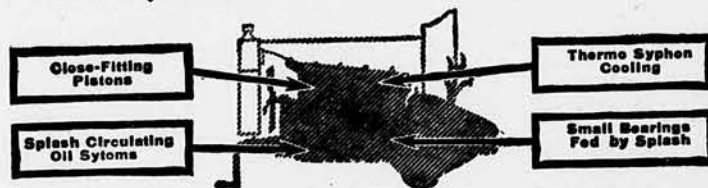
Of course every petroleum-base lubricant in burning must leave a carbon residue.

But carbon residues are of three kinds.

The first—which "cakes" hard on spark-plugs, piston-heads and valves—is the most troublesome.

The second—also troublesome—is an adhesive, sticky or "gummy" carbon, which causes piston rings to stick in their recesses with resultant loss of power and also interferes with valve action.

The third variety of carbon residue forms in a light, dry ash. This light ash is expelled through the exhaust by the natural action of the engine.



The high standing of Gargoyl Mobiloil "E" among Ford owners is due to two things:

(1) Its light carbon ash.

In body Gargoyl Mobiloil "E" is scientifically correct for the Ford Piston clearance.

If the oil-level is correct, Gargoyl Mobiloil "E" does not work past the piston rings into the combustion chambers in excess quantities. Thus troublesome carbon deposits, so common on incorrectly lubricated Ford cars, is avoided. The slight carbon residue from Gargoyl Mobiloil "E" is a light, dry ash. It expels naturally through the exhaust.

(2) Its quality enables Gargoyl Mobiloil "E" to withstand the high heat in the Ford combustion chambers.

The correctness of the body assures complete distribution through the Splash Circulating Lubricating System of Ford cars. Complete protection to all moving parts results. Friction-heat is reduced to a minimum.

Ford owners who use Gargoyl Mobiloil "E" avoid trouble from overheated motors in summer.

Gargoyl Mobiloil "E"—An 80c Demonstration

It will cost you less than 80c to fill your Ford crank-case to the proper oil-level with Gargoyl Mobiloil "E". And that trial amount will demonstrate its benefits in the way of—

- (1) Lower cost per mile for oil
- (2) Lower cost per mile for gasoline
- (3) No troublesome carbon
- (4) Lessened tendency to overheating
- (5) Full power—particularly on the hills

GARGOYLE
'E'
Mobil oils

A grade for each type of motor

In buying Gargoyl Mobiloil "E" from your dealer, it is safest to purchase in original packages. Look for the red Gargoyl on the container. For information, kindly address any inquiry to our nearest office.

YOUR TRACTOR

also may be lubricated efficiently with Gargoyl Mobil oils. On request we will mail you a separate Chart specifying the correct grade for each make and model of tractor.

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Specialists in the manufacture of high-grade lubricants for every class of machinery. Obtainable everywhere in the world.

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This is the Small Tractor You've Been Waiting For

HERE'S a tractor, the Advance-Rumely "8-16" that was especially designed to fit the needs of the small and medium size farm—a small, light weight, kerosene burning outfit to meet the demand where the famous Rumely OilPull is too large.

The "8-16" is easy to handle, economical and durable. It supplies reliable power for every farm job, and just as important, it is made by a company with an established reputation for dependability.

It is a real one-man outfit—tractor and plows are combined in one machine, and full control is from the driver's seat. With the Advance-Rumely you plow the same as with a horse gang, the plows are where you can always see what you're doing. Also you can back up with your plows, make short turns and cut square corners.

Kerosene for Fuel

Kerosene is its fuel, and it burns kerosene, not as a makeshift proposition, but continuously and at variable loads as well as full load.

An Advance-Rumely "8-16" not only will plow, but it will draw your discs, drills, harrows, mowers and binders, and on the belt it will run a small separator, hay baler, silo filler, sheller, feed grinder, etc. In fact, it will deliver the same reliable, steady power on all jobs—draw-bar or belt. When used for other jobs than plowing, the plows are quickly detached.

The powerful four-cylinder motor and the entire machine is Advance-Rumely built throughout. It comes from the same shops that build the well known OilPull tractor, the Ideal separator, and all the other dependable machines in the Advance-Rumely line.

Write our nearest branch for a special catalog on this new Advance-Rumely outfit.

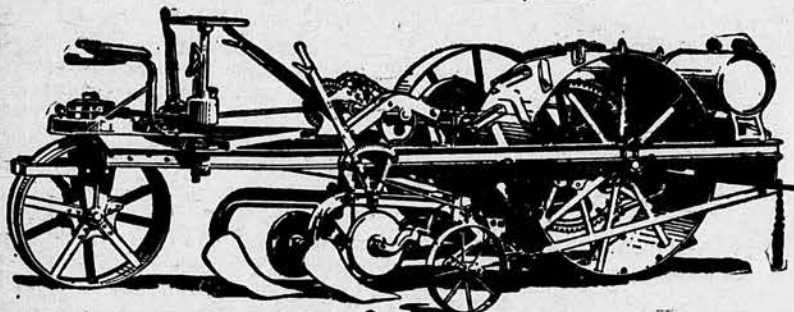
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MEANS HEALTHY PIGS and BIGGER PROFITS

Winter pigs are money-makers. They repay you in dollars and cents on the fall market for every bit of care you give them. Don't take chances trying to raise early pigs in the old-fashioned way—make your hog house modern—give your young pigs direct sunshine on the cold February and March days. It means healthier, stronger, faster growing pigs—fewer losses—bigger profits, which is just what you have always wanted.

CHIEF CUPOLAS

Ventilate any building—specially designed. Worth three times as much as wooden cupolas—cost no more.

Chief Sunshine Hog House Windows Used by Thousands of Farmers



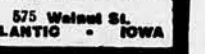
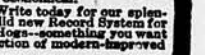
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HOG HOUSE WINDOWS

Most modern and satisfactory Hog House Windows you can buy. Insure sunshine right on the floor of the pens. Designed right and made right for permanent service. Made of heavy galvanized steel throughout—can't rot, rust or warp—nothing to wear out. Absolutely leak proof. Need no repairs—no attention. Special ventilation device. Easy to install in any hog house, old or new—satisfactory in service anywhere. CHIEF BARN WINDOWS—Modern barn windows that house, old or new—satisfactory in service anywhere. CHIEF BARN WINDOWS—Modern barn windows that house, old or new—satisfactory in service anywhere.

NEW SWINE RECORD SYSTEM and FREE 4 BLUE PRINTS MODERN HOG HOUSES

SHRAUGER & JOHNSON



Testing Seed Corn Pays

IS YOUR time worth \$4 an hour? That sounds like a get-rich-quick scheme, but J. C. Hackleman of the Missouri College of Agriculture figures that you can make that much testing seed corn. What he says is fully applicable to the grower of corn in Kansas as to those in Missouri. The average Missouri farmer raises about twenty-six acres of corn each year. Most of them fail to test the seed corn, whereby they lose \$1.50—and this is a conservative estimate—an acre.

Mr. Hackleman says that about ten hours of actual labor would be required to test the seed for the twenty-six acres. By such testing the yield can be increased at least \$1.50 worth. Hence the time required to test the seed is worth about \$40, or about \$4 an hour. The more corn a farmer grows, the more money he can make by the test. The man who raises 100 acres can increase his earnings at least \$150. This is practically clear gain since testing is done during late winter or early spring when the time would otherwise be lost.

Seed corn testing is comparatively easy. The ears that have been previously selected for seed are labeled or laid out on a table to correspond to the spaces occupied by the grains from those ears in the germinator. If any of the samples of grain show poor germination, the ear from which they came can be found from the label on the space the grains occupy, and can be eliminated.

One of the simplest testers is the sand box or sawdust. It consists of a box about four inches deep and thirty inches square, with about two inches of sand or sawdust in the bottom to hold the moisture or to keep water from standing around the corn. A piece of old sheeting or other cloth that will absorb moisture but will not allow it to stand on the surface should be stretched over the surface and marked off into two-inch squares. Put six kernels from various portions of the middle of each ear to be tested into one of these squares and give the ears and squares corresponding labels. Cover the box to prevent drying and keep it at room temperature—about 70 degrees F.—for six days, then find the ears from which kernels failed to germinate, throw them into the feed box and retain those that showed a good strong test.

Figures based on the acreage and yields in Missouri during the last eight years indicate that the losses incident to neglect of seed corn testing will amount to about \$11,000,000 this year. That amount is worth saving.

Some of the high schools are offering to test seed corn and other seeds for those who wish to have this work done. It is good practice work for the classes in agriculture and they can be of considerable service to the community by undertaking to test the seed corn for germination.

Make Flues Safe

Fires in the country are even more to be dreaded than in town. In our issue of November 4, 1916, appeared an editorial, "Are Your Flues Safe?" We wish to again call the attention of our readers to this most important subject.

This article told of the efforts of the state fire marshal to reduce the fire loss in Kansas and urged our readers to co-operate with him in this worthy attempt. We urged the inspection of all chimneys before the heavy firing of winter should begin. We particularly called attention to the dangerous bracket chimneys, where the brackets invariably settle, throwing the structure out of line. This causes the openings where the fire comes out and a couple of hundred thousand dollars go up in smoke each year in our state as a result.

Many reports have reached us this winter of fires caused by defective flues. We want to co-operate with the state fire marshal and at the same time urge our readers to protect themselves. If you didn't act on our former suggestion to make your chimneys safe, you owe it to yourself, your neighbors and the state to do so now.

Remember that fire loss is a total loss. Insurance merely distributes the loss

from the individual upon the community.

Fire losses are similar to deaths. We never fully realize what a terrible thing a fire really is until it occurs in our own home. Even where there is insurance the money received merely replaces the structure and perhaps the furniture. Many articles of intrinsic value cannot be replaced. Clothing, jewelry and personal effects seldom are insured. Where there is no insurance, the savings and efforts of a lifetime usually are swept away.

What makes a fire loss so regrettable is that probably 70 per cent of the fires could and should be prevented. More fires are caused by defective flues than any other one cause. Ninety-five per cent of the fires originating from this cause would never happen if the chimney was lined with fire clay flue lining. If all chimneys were lined so that they would have a smooth interior surface, thousands of dollars annually would be saved. Soot will not collect nor birds build nests in chimneys so lined. With no soot or debris, the danger from sparks is lessened. If the mortar cracks and a brick drops out, the lining prevents the escape of the flames.

Many cities already have ordinances compelling everyone who builds a house to line their chimneys. The time is coming when every state will pass a law of this nature.

You cannot line chimneys already installed, but you can carry out our suggestion to inspect them. If the mortar is cracked, the bricks loose, or there are openings where fire might get through to the woodwork, it will be cheap insurance to have the chimneys properly rebuilt.

It is to your interest to co-operate with the state fire marshal in his efforts to reduce this shameful waste from fires that could be so easily prevented.

Plan to Produce Seed

The high price of seeds of all farm crops this year show the need of planning to produce plenty of seed for future years. As a community, Southwestern Oklahoma should adopt the maxim of a seed grower who used to grow seeds far out on the plains—"Save enough seed, every year that seed is plentiful, to plant three crops."

Trials of Sudan grass in this section on a large scale have been delayed another year on account of scarcity of seed. Pasture trials of sweet clover are also delayed for the same reason.

Those who now have good seed of any farm crop should plant some especially for seed, and they should plan to save a good supply next fall.—J. E. PAYNE, Oklahoma.

Month for Pruning

This is the right month to get the pruning work out of the way. There are always on every well ordered farm, some trees and vines that need the farmer's attention each year. Last year we helped prune at twenty-two places. If you want some help get your request to us soon, as there is much work to get started. Many neglected, crippled trees that have outlived their usefulness and are disease breeders for the locality, should be dragged out and burned. A visitor always sees your crippled hog, horse, or cow, before he does the good ones. Trees are like those cripples if they have been neglected and are unsightly. Why not spend a half day in a general clean-up about the premises? You will be surprised at the results in improved appearances.

Peach trees should be headed back some each year, and when there is no crop, dehorn. Grapes should be pruned each year and you can secure a 35 per cent larger crop by doing it properly.

Barrel sprayers are splendid investments. They can be hitched up to a small engine by using an ordinary pump jack. Two farmers in this county have them fixed in this fashion and greatly reduce the labor of spraying.

Following is the "Government White-wash" recipe, for which there has been several requests:

Take a half barrel of lump lime, slack

it in warm water, using only enough to cover it; cover to keep heat in, strain the liquid through a fine sieve or a coarse cloth; add a peck of salt previously dissolved in warm water, three pounds of ground rice boiled to a thin paste and stirred in boiling hot; half pound of powdered Spanish whiting and a pound of glue which has previously been dissolved over a slow fire. Then add five gallons of hot water to the mixture, stir well and let stand for a few days, stirring occasionally. When ready to apply, heat the mixture and apply while hot. One pint should cover one square yard of surface. No other whitewash can compare with this for exterior or interior use, as it sticks and wears well. Coloring matter can be added and any shade desired obtained.—E. J. MACY in February News Letter to Farm Bureau members, Montgomery County.

Fight English Sparrow

A. J. Wenkheimer, Pawnee County, is a sworn enemy of the English sparrow. He writes us at considerable length regarding these birds and urges that a state-wide campaign be started to destroy them. He says that they have been investigated by the U. S. Department of Agriculture and designated as a pest in Farmers' Bulletin No. 493. In some states systematic efforts are being made to exterminate them. These seem most successful where the campaign is placed under direction of the state fish and game warden. Mr. Wenkheimer quotes at considerable length from a bulletin of the California Fish and Game Commission, in which a very clear case is made against the sparrow as an unmitigated nuisance and pest. Following this quotation, he says:

"I will add that the English sparrow is also a distributor of disease germs and parasites. It carries chicken mites and the germs of poultry diseases and hog cholera. Dr. Crumrine urges us to 'swat the fly' but if in the meantime we swat the English sparrow the barn swallows will return and swat the flies for us."

"Before the English sparrows arrived here we raised cherries, grapes and berries, but now the sparrows take them. Grapes would be almost a sure fruit crop in Central and Western Kansas if the sparrows did not destroy them before ripe. These birds become more numerous and more destructive in treeless plains than in timbered or semi-timbered sections, for the reason that on the plains the birds of prey that hold them in check, are lacking. The sparrow hawk, which is a little hawk about the size of a turtle dove, should be included in the list of protected birds because it preys on sparrows."

"I am in favor of a bill placing a bounty of two cents on each sparrow killed and delivered to the official authorized to pay such bounty. I believe it would be a good idea to authorize county commissioners to pay an additional two-cent bounty if they saw fit. Sparrows are most easily killed during winter. On cold, stormy nights they roost in barn lofts, stables, sheds, and other farm buildings. My sons and I have gone out repeatedly during the winter with a bright lantern, a few paddles and a hard-shooting air rifle and killed from three to four dozen sparrows in a half hour. Hunting them this way we never get any other birds."

Disk or Plow for Corn

A Commanche county reader writes that he has a piece of sandy loam land that was in wheat last year. He plowed it six or seven inches deep the fall of 1915 in preparation for the wheat. He plans to put it into corn this year and asks if it would pay to plow this land deep again before listing in the corn, or whether it would be just as well to give it a good thorough disking with a tandem disk in advance of listing.

It would not cost as much to disk as to plow and as this land is quite sandy and does not pack solid, we believe fully as good results will follow the use of the disk as the plow. The earlier the disking can be done, the better, as it will help to take in and hold the moisture. By disking early a lot of weed seeds lying on the surface of the ground will be germinated and the weeds will be killed when the corn is listed.

Farm Accounts and Loan Act

The real basis of land valuation is its capacity for production.

The Federal Farm Loan Act passed by Congress contains one provision that is especially interesting from the viewpoint of the new business principle it is introducing in the financing of farms. O.

R. Johnson, of the Missouri College of Agriculture, calls attention to Section 12, Article 5, of this act. Concerning the appraisal of land for loans it expressly states that "In making said appraisal the value of the land for agricultural purposes shall be the basis of appraisal and the earning power of said land shall be a principal factor."

Heretofore mortgage security has been principally upon the sale value of the land. With a 50 per cent margin on the value of the land and intelligent appraisers, this has been safe business for the lender. Appraisal in this case consists mainly in a comparison of the land under consideration with other near-by land of known value in topography, distance from market, soil, and other factors likely to affect its sale value. Under such system the earning power of the land is considered only to the extent

that such factors as those named are limiting factors in the earning power of the farm. Such a basis of mortgage security is likely to exist as long as the demand of borrowers for lenders is much larger than the demand of lenders for borrowers. With the coming of competition in the farm loan business, more and more attention is likely to be given to the earning power of individual farms and individual systems of management.

The new Federal Farm Loan Act in the section quoted contemplates following this latter method in appraising land. Under this system of appraisal recognition is given to the fact that the same farm may be worth more under one farmer and one system of management—in other words, of two farms that may now be valued the same, the one with the best income can secure the larger loan under the new method of ap-

praisal. Loans made on such appraisal are based on the ability of the borrower to meet his obligations without foreclosure rather than on his probable solvency in case of foreclosure.

This will be good business for both borrower and lender, as it will curb the careless borrower, put more capital in the hands of the best users, and protect the lender against security that is not very liquid.

One good feature of this proposed practice is the incentive it will give to good business practice among farmers. The farm that makes the most is to be worth the most. To know what the real earning power of their farm is, farmers must keep accounts; and keeping accounts will point out many ways to increase the earning power of the farm. Good accounting is the key to successful business management.

\$1150 F. o. b.
Racine
For Mitchell Junior—120-inch
Wheelbase

Mitchell
SIXES

\$1460 F. o. b.
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For 7-Pass. Mitchell—127-inch
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Now Also An \$1150 Model

With Nearly All the Mitchell Extras
A Doubled Output to Meet a New Demand

Thousands of men have wanted a car with all the Mitchell extra features. But they did not want a car so big and impressive. They did not want a 7-passenger car.

We have built for them the Mitchell Junior—a Mitchell Six in little smaller size. Its 40 horsepower is ample for five passengers. Its 120-inch wheelbase gives plenty of room for five—more than most makers give.

The \$1150 price gives all of the saving to the man who doesn't want extra power and size.

Last year we sent out thousands of these cars before announcing this new model. And Mitchell Junior has proved itself as perfect as the larger Mitchell. So we have more than doubled our factory capacity, to build as many Mitchell Juniors as we build of the 7-passenger Mitchells.

Hundreds of Extras

Both of the Mitchells embody hundreds of extras, paid for by factory savings. They give you at least 20 per cent extra value over other cars in their class. All because John W. Bate, the great efficiency expert, has cut our factory costs in two.

There are 31 extra features—things which other cars omit. On this year's output these extras alone will cost us about \$4,000,000.

There is much added luxury. We have added 24 per cent to the cost of finish, upholstery and trimming. That is all paid for by savings made this year in our new body plant.

And there is now 100 per cent over-strength in every vital part. That is, every part is twice as strong as need be. The evidence is that this double

strength makes the Mitchell a lifetime car.

Twice as Strong

The Mitchell standard for many years has been 50 per cent over-strength. Under that standard Mitchell cars have proved marvels of endurance.

Two Mitchells that we know of already have exceeded 200,000 miles each. Seven of them have averaged 175,000 miles each—over 30 years of ordinary service.

But in 1913 Mr. Bate spent a year in Europe. When he came back he started out to double our margins of safety—to more than match the highest European standards.

It has taken years to do this. But we announce this year this double strength in every vital part.

Over 440 parts are built of toughened steel. All parts which get a major strain are built of Chrome-Vanadium. We use steel alloys which

cost us up to 15 cents per pound. And all the parts on which safety depends are made oversize.

One result shows in the Bate cantilever springs. We have used them for two years, on thousands of cars. And not one spring has broken.

That one fact will illustrate what this extra strength means in every vital part. For you know how springs break under shock.

Exclusive Values

These extra values are exclusive to Mitchell cars. No other factory in the world could include them at the Mitchell price.

This model plant, covering 45 acres, was built and equipped by John W. Bate. Every machine is adapted to build this one type economically. The methods employed here have cut our factory cost in two.

That is what pays for these extras. That is what pays for this vast over-strength.

Now a new body plant—building all Mitchell bodies—saves us a vast sum more. That goes into luxury—into heat-fixed finish, into rare-grade leather, into countless dainty details. The latest Mitchells are the handsomest cars under \$2000.

Go see these extras, which are numbered by the hundreds. See what they mean in a car. You will not want a fine car which lacks them.

There are Mitchell dealers everywhere. If you don't know the nearest, ask us for his name.

MITCHELL MOTORS COMPANY, Inc.
Racine, Wis., U. S. A.

TWO SIZES

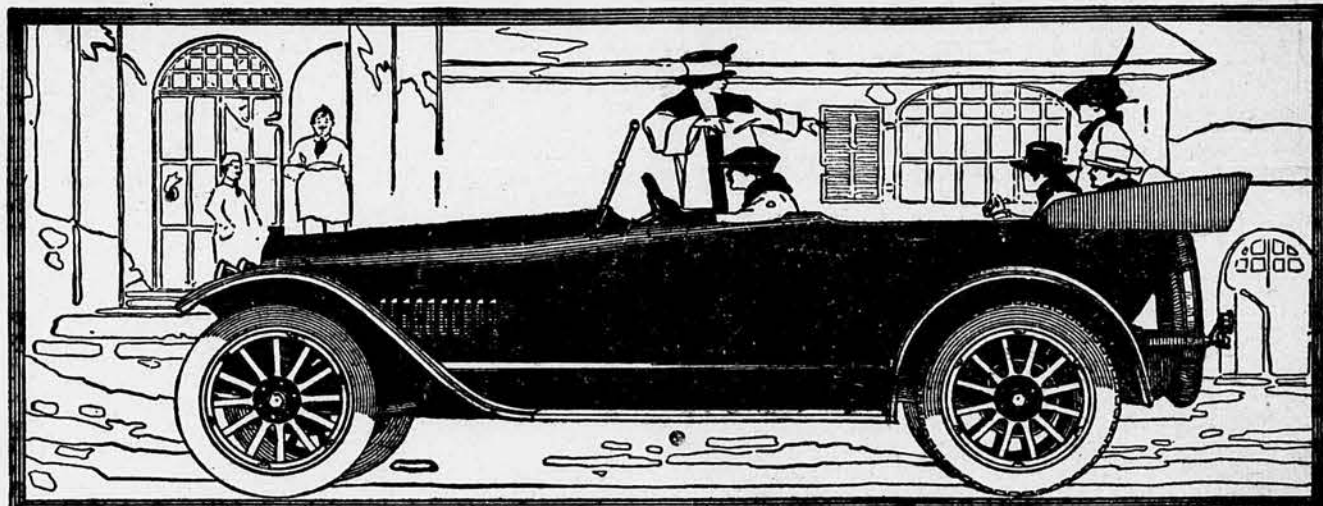
Mitchell—a roomy, 7-passenger Six, with 127-inch wheelbase. A high-speed, economical, 48-horsepower motor. Disappearing extra seats and 31 extra features included.

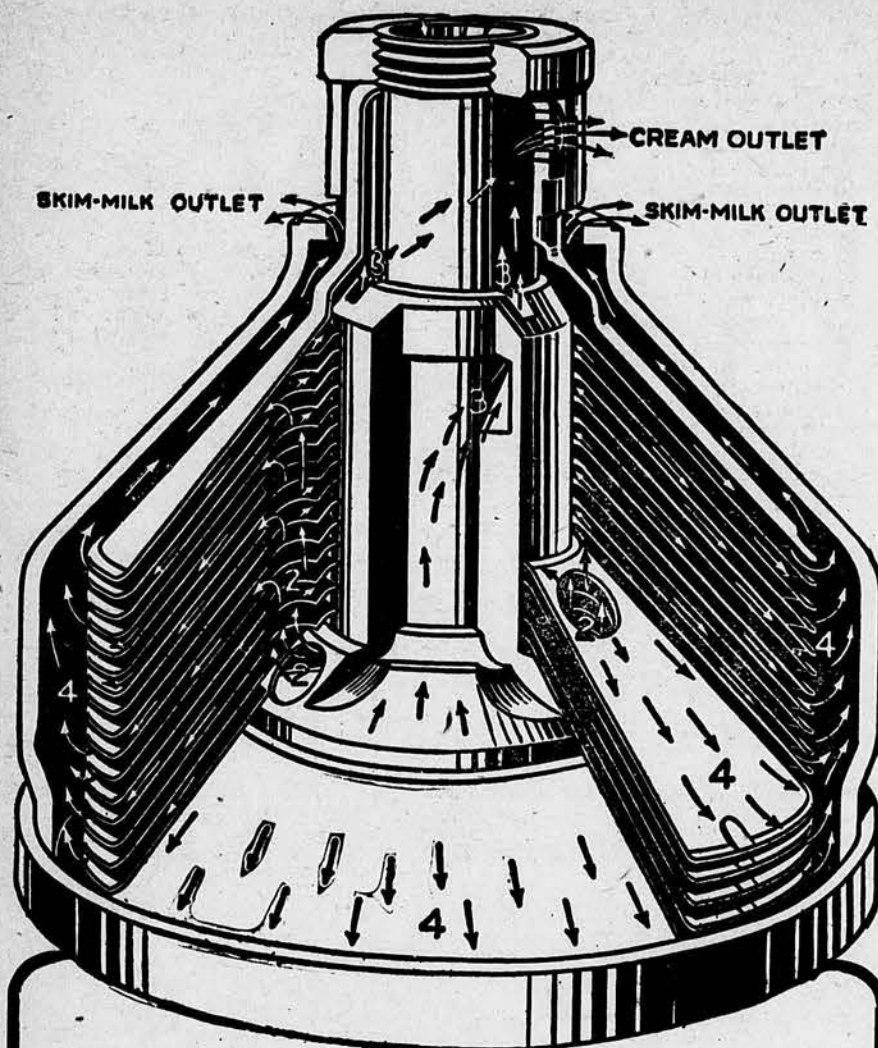
Price \$1460, f. o. b. Racine

Mitchell Junior—a 5-passenger Six on similar lines with 120-inch wheelbase. A 40-horsepower motor— $\frac{1}{2}$ -inch smaller bore than larger Mitchell.

Price \$1150, f. o. b. Racine

Also all styles of enclosed and convertible bodies. Also demountable tops.





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THE NEW DE LAVAL
CREAM SEPARATOR

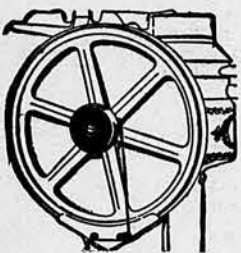
THIS is the new self-centering De Laval bowl with detached spindle, that is creating such a sensation in the dairy world.

This new De Laval bowl, with patented tangential tubular milk passages and patented removable milk conveyor, makes possible in a bowl of given size and weight, operated at a given speed, greater skimming efficiency and capacity than has ever before been attained in any other cream separator bowl.

These are big advantages that you can secure only in the De Laval.

But aside from the big advantages of greater capacity and closer skimming, there are many other important improvements in the New De Laval.

All discs are now interchangeable and are unnumbered. There are fewer discs. On account of greater simplicity of bowl construction, the New De Laval is easier to wash and, capacity considered, is still easier to run than before. High grade construction and design, together with perfect automatic lubrication, are a guarantee that the splendid De Laval record for durability will be maintained in the new style machine.



Every New De Laval is now equipped with a Bell Speed-Indicator, the "Warning Signal" which insures proper speed and uniform cream.

If you are trying to get along without a cream separator or with a half-worn-out or unreliable machine, why not get a NEW De Laval NOW and stop your cream waste? You don't need to count the cost, because the De Laval will soon pay for itself.

There is a De Laval agent near you who will be glad to explain all the improvements and advantages of the NEW De Laval, and who will set and start a machine for you on your farm and let you try it for yourself.

Why not see the nearest De Laval agent at once? If you do not know him, write to the nearest office for any desired information.

New Catalog will be mailed upon request

THE DE LAVAL SEPARATOR CO.
 165 Broadway, New York 29 E. Madison St., Chicago
 50,000 BRANCHES AND LOCAL
 AGENCIES THE WORLD OVER



No Substitute for Butter Fat

THERE has been an idea prevalent among dietists and chemists, as well as people in general, that all fats, regardless of their source, yielded only energy and heat when consumed by the animal or human body, and until very recently no chemical or dietetic experiments had shown any real important difference between butter fat and other fats. It had, of course, been proved that fats of low melting point were more digestible than those of a high melting point. Aside from this, there was thought to be but little difference in their food value. In the estimation of many "fat was fat" and yielded only energy and heat.

The oleomargarine people often took advantage of this fact to exploit a cheap product as a substitute for butter. Whether or not this "just as good or better product" is at all worthy of the place they claim for it has always been seriously questioned by dairy and creamery men. In this connection experiments carried on by F. B. Osborne, of the Connecticut Experiment Station, Dr. Mendel, of Yale, and E. V. McCollum, of the Wisconsin Experiment Station, are particularly interesting and prove beyond a doubt the real value of butter—viz., that butter fat not only yields energy and heat as do other fats, but that it contains something more vital than other fats—a principle which, like proteids, supplies the elements necessary for growth and life itself.

In experiments carried on with white rats, young rats were fed mixtures composed of chemically pure protein, starch, fat, sugar and various salts, and got along splendidly for the first three months, when they lost appetite, fell off in growth and finally starved. After numerous repetitions of this nature the investigators found that when milk was added to the ration the little animals began to regain normal condition, to thrive and grow to maturity. Many changes were made in their diet to make it more palatable, changes in salts used, the kinds and amounts of sugar, etc., but always the same result—growth ceased at the age of about four months. It was in an attempt to increase the palatability of the diet by substituting pure butter fat for the lard, which had been used as the fat in the ration, that the experimenters found these new facts, for the little animals immediately began to grow just as when milk was fed. It was evident that butter fat supplies something necessary for growth which lard could not supply. Other experiments were carried on to determine whether other fats from the animal or vegetable kingdom would produce the same effect as had butter fat. Experiments with tallow, olive oil, corn oil, cottonseed oil and peanut oil proved futile, while the fat of eggs and fat extracted from the cells of pig's kidney produced the same result as did butter fat. Thus it seems evident that the fats obtained from the living protoplasm of the animal have this property of inducing growth after growth has ceased. Thus far no plant fat has been found to possess this power.

Experiments with pigs and calves gave results similar to those obtained with the rats. If records of experiments on man were available, it is reasonable to suppose that results fully as striking would be obtained. In this connection the editor of Hoard's Dairyman recalls two instances in which two public institutions had, in the interest of so-called economy, substituted oleomargarine for butter in the diet of the inmates. It was noted that when oleo was used the inmates were not in as good physical condition and that physicians were in greater demand than before. When oleo was replaced by butter it was reported that the health of the inmates was materially improved.

In the light of these experiments and observations it is reasonable to suppose that even more marked discrepancies would be apparent in the growth and general health of young children.

Just how much or how little butter fat can be used and still maintain growth has not yet been determined—but enough has been proved to give the dairyman sure footing in his claim that butter fat is a better food than butter

substitutes composed of vegetable fats and oils. Facts and figures like these make it most embarrassing for the oleo manufacturer to claim hereafter that he has a "just as good as butter" article, and surely it behooves the housewife to give the most careful consideration to the results of these recent investigations and the conclusions which may logically be drawn from them, before she decides to eliminate butter from the diet of her family.—J. H. FRANSEN, Nebraska University.

Advanced Registry

At one time the fact that a cow had a pedigree was enough to give her standing with her owner. But the old adage, "The world will not ask who you are; it will ask What can you do?" is just as true for the dairy cow as for the man. Advanced Registry tells what your cow can do.

"An advanced register is a herd book within a herd book, based upon individual merit and designed as an aid to improvement within the breeds. Any animal that has been recorded in the herd book may, on showing the required degree of merit, be advanced; the advancement being indicated by entry in the Advanced Register."

There are three essentials necessary for the carrying on of advanced registry work, namely, the barn sheet, milk scales, and a Babcock tester. The combination of these three things, together with a good dairyman, builds a firm foundation for the successful breeding and selecting of the dairy herd, guarantees a reasonable profit and insures quicker and better sales.

Different breeds have different requirements and use different terms. The letters A. R. O. are used in the Holstein breed and mean "Advanced Registry Official." The Jersey Cattle Club maintains a "Register of Merit" in which to preserve production records of cows or bulls meeting the requirements. Similarly the Guernsey and Ayrshire Associations keep production records.

Breeders of pure bred dairy cattle find it greatly to their advantage to secure all the official production records possible.

Usually the dairy departments of the state experiment stations supervise official tests. For information about conducting official tests in Kansas, write to Prof. O. E. Reed, Manhattan.

Feed a Dairy Problem

In a lecture during the Missouri Farmers' Week in January, Prof. C. H. Eckles stated that feed has increased in value between 30 and 40 per cent over the average of the last three years. Dairy products have gone up only 10 to 15 per cent. If feed prices should in the future remain where they are now, butter will retail for at least 50 cents and milk at 12 cents a quart.

According to Professor Eckles, the dairyman must meet the situation by culling out the poor producers in his herd and giving closer study to the feeding problem. He must grow as much of his own feed as possible and cut to the minimum the amount to be purchased.

Good and economical dairy rations are based upon silage and some legume hay such as clover, alfalfa or cowpea. If these are plentiful, the feeding problem is much simplified. A good grain ration to go with these is corn four parts, bran one part, and cottonseed or linseed one part.

Corn even at the present high price is the cheapest source of digestible nutrients. Cottonseed meal, distillers' grains, brewers' grains and linseed meal are the cheapest sources of protein. A mixture of corn and cottonseed meal alone would not be a good ration, as it is too heavy; that is, it forms a sticky mass in the stomach which the digestible juices cannot penetrate easily. Bran, dried beet pulp or brewers' grains are the best feeds we have to lighten a ration. For this reason one of these is nearly always included in the ration fed heavy milking cows requiring liberal grain feeding.

FREE 1917 PLANTING GUIDE AND PURE SEEDBOOK

Ask now! This beautiful 96-page four-color book describes 1917 varieties vegetables and flowers; handsomely illustrated; beautiful home grounds, flower and vegetable gardens, landscaping, shrubbery, orchards, trees. A dictionary on gardening; flower lover's delight! Berry grower's book! An orchard-keeper's guide! A garden catalog never published. Better than our famous 1916 book. Don't miss it. Ask today. A postal gets it. Galloway Bros. & Co., 21215 Waterloo, Ia.

SUDAN GRASS

Greatest forage crop and drought resistant. Produces fine crop of hay—superior to Millet and equal to Timothy. Barteldes' Sudan Grass Seed is a sure big yielder—from 3 to 4 tons of hay per acre and under irrigation as high as 10 tons per acre. **BARTELDES' SUDAN SEED IS PURE**—cleaned and re-cleaned. Source this year but we have a good stock. Order from headquarters. **FREE** Catalog of field and garden seeds—also special pink price list—send at once. 60 years of honest dealing.

THE BARTELDES SEED COMPANY,
 707 Massachusetts St., Lawrence, Kansas.
 707 Main Street, Okemah City, Okla.
 707 Sixteenth Street, Denver, Colorado.

FARM VALUES AND RAILROADS

Transportation Problem Must be Solved Nationally in Order to Assure Agricultural Prosperity.

THE greatest industry of the United States is farming. Next to that comes transportation.

Efficient transportation is essential to the continued welfare and business progress of the nation. To the farmer it means wider markets and better prices for his crops.

Speaking for 90 per cent of the railroad mileage of the country we invite your co-operation in the solution of the railroad problem to that end.

Make Regulation Efficient

There is no question that public regulation of transportation has come to stay. The railroads accept it. They ask only that such regulation be made efficient. They ask that the functions properly subject to public supervision—incorporation, the issuance of securities, the making of rates—be placed under the direction of a single responsible national body such as the Interstate Commerce Commission, with regional sub-commissions, in order that regulation may be kept close to the people. They ask that such regulation be so administered as to permit the railroads to earn a living return, to attract new capital and to make the improvements and extensions necessary to enable them to serve the American people fairly and efficiently.

In the Federal Reserve and Rural Credit Banking Systems the operation of regional divisions under Federal supervision is well illustrated. The railroads seek a similar solution of their problem.

Commerce is Nation Wide

The farmer wants free trade among the states.

Commerce in farm products is not confined to state lines. It is nation wide. Its regulation should also be national. The fundamental state right is the right of each state to be protected against discriminations by other states such as exist today. Every barrier that a state erects to the free movement of commerce across its borders limits the farmer's market, makes it easier for speculators to control products and depress prices and tends to increase the cost of what the farmer has to buy.

The railroads cannot serve 49 masters—48 states and the nation—and serve efficiently. The present system of multiple and conflicting regulation is wasteful and destructive.

In the interest of all, regulation should be in behalf of all the states. We invite discussion of this question and shall be glad to answer questions and to supply information on request.

This is the first of several brief talks on this subject.

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The most difficult questions to decide this winter is how liberal one can afford to feed dairy cows. As a general rule feeding a cow to near her capacity is the most economical. If the farmer goes to the expense of maintaining the cow it is not economy to fail to make use of her productive capacity. A good rule for practical feeding is to give the cow as much roughage, silage and legume hay, as she will eat clean, then feed in addition one pound of grain to each three pounds of milk for a Jersey, and one pound of grain for each four pounds of milk from a Holstein.

A dairy cow should be in good condition at time of calving. The amount of milk she gives when fresh usually shows her capacity. She should then be fed enough to support this milk production. A cow that does not have the inheritance to give more than twenty pounds of milk daily cannot be made to give forty pounds by liberal grain feeding. However, the cow that starts giving forty pounds will not continue to do so long unless sufficient feed is given to furnish the raw material for this much product.

It is not economy to feed all cows the same amount of grain. They should be fed in accordance with their production. A heavy grain ration given a light milking cow fattens her but does not increase her milk beyond her ordinary limit.

R. A. Beamer, Oakley, has two pit silos containing silage three years old, which he is feeding with very satisfactory results. This is an illustration of the value of the silo as a means of utilizing the feed grown in the big crop years to carry stock over the poor years. At the Hays Experiment Station this practice of having a reserve supply has been practiced for several years.

Only one class of signs should be used on farm buildings, and that is the kind that advertises the farmer's own business. If he is specializing in any breed of live stock, farm crop, or seed grain, this fact stated in a farm name on the road side of the barn, will produce results for both the owner and the prospective buyer who passes that way, but the glaring advertisement of some firm many miles away should never be tempting to the farm owner because of the check received when the sign is painted. It may be a good ad for the firm placing it, but it is a very poor recommendation for the man on whose building it is seen.

The policy-holders of the Patrons' Fire & Tornado Association, which is the insurance organization of the grange, held their twenty-seventh annual meeting at Olathe, January 17. This association writes fire and tornado insurance for members of the grange only. It began business in 1889 and the business has grown steadily until today they have ten thousand policy-holders with insurance in force December 31, 1916, amounting to almost twenty-seven million dollars. This is an increase of three and a half millions of insurance for the past year. They have a surplus of fifty-nine thousand. The officers whose terms had expired, were all re-elected.

Preventing Chicks from Dying in Shell

The Raisall Remedy Company, of Blackwell, Oklahoma, sell a guaranteed remedy to prevent chicks from dying in the shell at hatching time. Each package contains enough to hatch 500 chicks. They will send it to any reader of KANSAS FARMER who has an incubator. You must mention this paper and date with order.

You may use one-half package and if not satisfactory for any reason you may return other half and you will not be out one cent. Price of remedy, \$1.50 per package, two for \$2.50, parcel post prepaid with directions. If package fails to raise 500 chicks, Raisall Remedy Company will furnish additional package without cost. This is certainly a great opportunity for those who have trouble with chicks dying in the shell. You should by all means try this remedy. It is absolutely guaranteed, you take no chances in giving it a trial.

Every cent of your money will be refunded if you are not satisfied after using half package. They will also tell you how to build the best home-made brooder in the world from an ordinary box, that will save your baby chicks. Send them your order today for a package of this remedy and other information, it will insure big hatches and strong chicks. ADV



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Tractors Require Good Care

THAT the farm tractor cannot be neglected any more than can the farm work horse if it is expected to give good service, was the theme of one of the lectures given during Farm and Home Week by W. H. Sanders, instructor in farm motors at the Kansas Agricultural College.

"The horse may be a pure-bred or a scrub, intelligent and docile, or cranky and unmanageable," said Mr. Sanders. "Both horse and tractor need reasonable care and grooming. The horse must be regularly fed and watered—so must the engine. The horse does best work when not urged beyond his strength. The tractor rapidly deteriorates if made to work at its maximum power.

"A horse becomes ill or out of condition when wrongly fed or fed with musty dirty feed. The engine has trouble and gets out of condition if harmfully fed its fuel or lubricating oil, or when wrong oils are used. A horse is sometimes ruined if watered when overheated. Engine cylinders can be ruined if allowed to run without water in the cooling system, and then water is suddenly turned on.

"The harness and hitches of horses must have intelligent attention if sore shoulders are eliminated and efficient work is to be done. The tractor harness or hitches must likewise be given careful attention.

"The horse needs protection from inclement weather for the conservation of his best energies. A tractor left out in any weather, dust storms, and cold, will suffer enormously. Both need careful housing. The veterinarian is called upon to keep the horse well. The tractor needs no less its competent mechanic to prescribe for and cure worn or broken parts and make repairs.

"A horse must be shod to do his best pulling, so too must the 'shoes' or lugs of the tractor receive attention. The 'horse doctor' can be the engine operator himself if endowed with common sense and a few tools. Instead of the horse-shoer, the driver and a wrench are needed. The harness of a horse is seldom 'made over' to suit the particular work or condition. Here again a few simple adjustments of bolts and bars give a wide range of work conditions with a tractor.

"The idea that has been fostered by unscrupulous salesmen that a 12-year-old boy can succeed as an operator, has been thoroughly exploded. No man of common sense will say that a child of such tender years is competent to breed, raise and break horses for farm use. The successful tractor operator must grow up a while with tractors and study them as to their habits, care, and work. One must get 'tractor sense' as the horse-man gets 'horse sense'.

"It is highly desirable that correct information be given engine operators before they start in the tractor game.

"Kansas is reputed to have more tractors on farms than any other state in the Union. This number is estimated by many as 3,000 to 5,000. This shows that as far as the college is concerned, informational help has reached but about one-third of the number required to operate all of them."

Automobiles in School Work

In a successful attempt to show that the once jeered-at automobile is today making itself indispensable in a countless number of ways, the current number of American Motorist brings a large variety of photographs to give testimony in behalf of the motor car. Among these is a picture of the Fullerton, Cal., high school, and a long string of automobiles which the institution utilizes to bring its pupils to school and take them home again.

The cars haul 450 pupils twice a day. There is no charge for the transportation, and the cars operate in a nine-mile radius. During the day some of the cars are used to convey classes in botany into the surrounding country, while others are used as models in the school's auto instruction department. The school district owns and operates the cars.

At the annual meeting of the Rooks County Live Stock Improvement Association held January 26, it was decided to hold a sale of registered stock March 8. The association is planning for two events each year. In September one day will be given to a colt show and the following day a sale will be held. Sires entered in these sales must be registered.

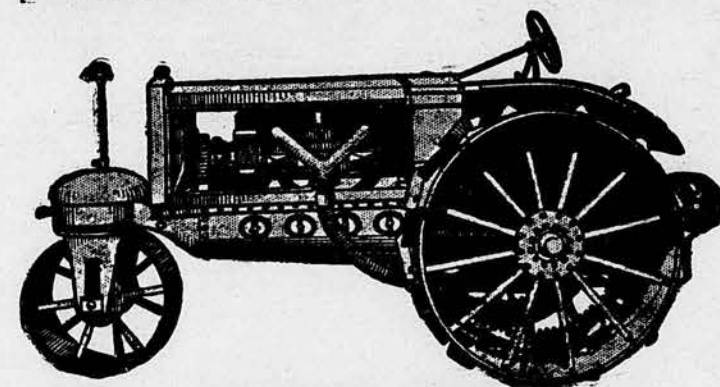
Curing meats at home will aid very materially in reducing the high cost of living. This practice, who has been abandoned by a good many farmers, should be taken up again.



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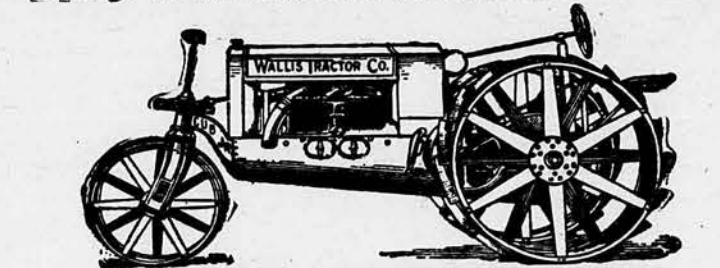
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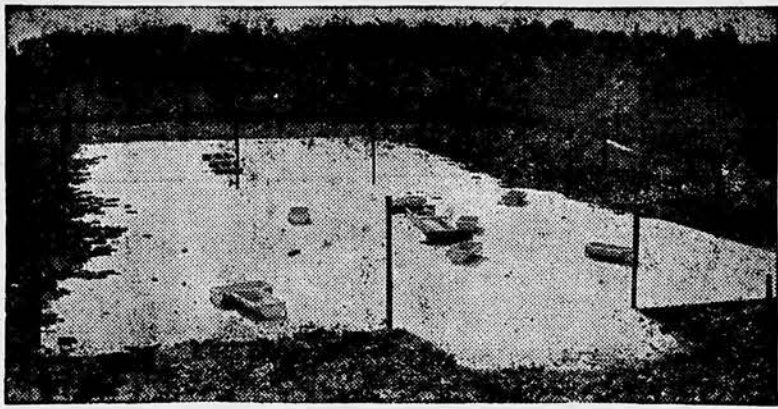
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The Government this year is asking farmers to put increased acreage into grain. Military service is not compulsory in Canada but there is a great demand for farm labor to replace the many young men who have volunteered for service. The climate is healthful and agreeable, railway facilities excellent, good schools and churches convenient. Write for literature as to reduced railway rates to Supt. of Immigration, Ottawa, Can., or to

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A few lilacs, hydrangeas, spireas or honeysuckles add much to the attractiveness of the home grounds.

The seed supply, particularly sorghums, is short in Western and North-western Kansas, and the indications are that the sooner seed is secured, the better. A number of farmers have already secured what seed they will need for spring planting and some of those who had seed for sale have completely sold out their surplus.

"Standardization is not an end within itself. Its mission is to awaken in the public mind a deeper interest in the condition of our rural schools, and then it remains for that interest, once aroused, to express itself in working out fundamental reforms in our school system."

FARM ITEMS

Use Best Layers as Breeders

It is not the usual practice to have breeding pens in the farm flock. It is important to breed from hens that are good layers. Any hen can lay in the spring, but the one which lays through the winter when eggs are high is the one which deserves recognition by promotion to the breeding flock. Mark these good layers and use them in reproducing their good qualities.

It is easy to select the laying hen. Her comb is bright and red and her pin bones will be spread apart. Hens meeting these qualifications should be set apart with a good, vigorous male bird. It is folly to breed from the entire flock. By selecting a few of the best birds, progress will be made. Where no selection is practiced, the poor producers will be used for breeding, for even loafers will lay in the spring. It is also a mistake to breed from the immature and undersized stock. Over-fat, coarse-boned hens or those which crop behind should never be put in the breeding pen. The best place for them is on the table. Pick out the good birds and note the improvement. Use fewer males so that you can afford better stock.

Sweet Clover Experience

A good many inquiries are received about sweet clover. The following letter from E. B. Lewis, Jewell County, appeared in the Jewell County Farm Bureau News:

"Several have asked about my sweet clover experience, and I will tell you. The first I sowed was in the pasture on the sandy bottom near the Republican River. I sowed unhulled seed in February. I sowed about six or seven pounds to the acre with the intention of duplicating the seeding the next winter. I secured an excellent half stand, four inches high; the floods came, and kept coming, and killed most of it. I resowed part of this ground again last winter and have a good half stand again. The object in the two sowings is to secure seeding plants each year, for this is permanent pasture. I will sow the other half stand this winter, also of unhulled seed.

"In another field on the upland we prepared the ground by disking and rolling with corrugated roller, drilling hulled clover at the rate of about fifteen pounds to the acre, May 1, 1916. Weather conditions were very favorable and we secured an excellent full stand. About June 15, 1916, we turned the milk cows, work horses (at night), and hogs on this field. The plants were about six inches high and all the stock seemed to rather eat there than elsewhere, except the hogs. They would cross the sweet clover to the alfalfa field. About July 15 we shut out stock from this field for a month, then turned them on again for two or three weeks. This was to keep the horses from eating it too close.

"We have had no trouble with bloat, or to get stock to eat it. We have to shut the gates to keep the stock from eating it. I expect to sow about fifty acres this winter. This will be on badly worn-out soil in an effort to build it up quickly."

Rearing Chickens with Hens

Hens are often used to raise incubator-hatched chicks and to take the place of the artificial brooder, a practice that is in operation on many poultry farms. A few eggs are put under the hen four or five days before the incubator is to hatch. In the evening following the hatch of the incubator, after the chickens are thoroughly dry, one or two are put under the hen, and if she is found to mother them properly, the next evening as many more are added as she can brood or care for properly. Hens will successfully brood ten to fifteen chickens early in the breeding season, and eighteen to twenty-five in warm weather, depending on the size of the hen. This method of handling chickens does away with the artificial brooder, and where one has only a small number of chickens to raise it is a very easy manner in which to handle them, and also a good method when it is desired to raise separately special lots of chickens.

It should be borne in mind, in adding chickens to a hen which already has some to brood, that it is best to add those of the same color and age as the ones already with her, as the hen will

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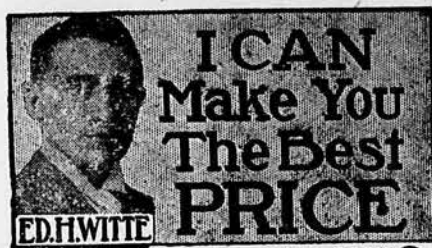
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SILOS American Tile Blocks, Curved Hoops Imbedded, 14x35, 115 tons\$223 American Silo Co., 210 Traders Bldg., Kansas City, Mo.

Don't plant more than enough apples to supply home use, unless they can be well taken care of. They are not a profitable crop on the average farm unless some attention is given them.

often pick the later arrivals if they are of a color different from the ones she is already brooding. As a rule this transferring should take place at night, although with a gentle hen it can be done in the morning.

Powder the hen with a good insect powder before moving her and the chickens to the brood coop. The hen should be dusted every two weeks or as often as necessary until the chickens are weaned. If lice become thick on the chickens, or if they are troubled with "head lice," a very little grease, such as lard or vaseline, may be applied with the fingers on the head, neck, under the wings, and around the vent. Great care should be taken, however, not to get too much grease on the chickens, as it will stop their growth and in some cases may prove fatal.

The brood coop should be cleaned at least once a week and kept free from mites. If mites are found in the coop, it should be thoroughly cleaned and sprayed with kerosene oil or crude petroleum. From one to two inches of sand or dry dirt or a thin layer of straw or fine hay should be spread on the floor of the coop. Brood coops should be moved weekly to fresh ground, preferably where there is new grass. Shade is very essential in rearing chickens, especially during warm weather; therefore, the coops should be placed in the shade whenever possible. A cornfield makes fine range for young chickens, as they secure many bugs and worms and have fresh ground to run on most of the time, due to the cultivation of the ground, and have abundant shade at the same time.

It is a good plan to toe punch or mark all the chickens before they are transferred to the brooder or brood coop, so that their age and breeding can be readily determined after they are matured. Farmers frequently keep old hens on their farms and kill the younger hens and pullets, because they are unable to distinguish between them after the pullets have matured.

Home-Made Brooders.

Here is a brooder that will put back into use a million incubators, and right now is the time for you to write the Raisall Remedy Company, Blackwell, Oklahoma, and get their plans for building the best home-made brooder in the world from an ordinary box or change any old brooder that you might have, so that you can use the warm medicated dirt floor and feather hover. Unless you keep the baby chicks' feet warm you will never raise them. The floor of a brooder must be bone dry and warm at all times and you must have a good hover. Chicks will never crowd nor pile up on a warm floor, neither will a warm floor cause leg weakness, which is due to cold hard floors and not enough exercise.

You should certainly write the Raisall Remedy Company and get their plans for building their brooders or remodeling your old ones, in this way you can use the warm medicated dirt floor and feather hover. They are equipped with the famous Hydro Heater Lamp which is the one safe brooder lamp. They will run a week at one filling. The outfit sent parcel post prepaid with full directions for changing any old brooder or building one of these from an ordinary box, \$5, two for \$8.

They are made by Mr. Tredway, who has spent his entire life in the business, and the principle is certainly right. If you have any trouble with your baby chicks, you should certainly try this out. Hovers are all same size, 20 x 30 inches. Medicated dirt floor makes brooder absolutely immune from mites and lice. Send for one or two of these outfits today, or write the Raisall Remedy Company for their circulars.

With hovers and lamps they send you free a package of remedy to prevent chicks from dying in the shell at hatching time. Price of remedy alone, \$1.50, will hatch 500 chicks. With your order mention this paper and date. Don't put it off, write today. [Advertisement.]

Before plowing the garden patch this spring, rake together and burn all the dead vines, grass, sticks and any other sort of rubbish, and you will save your plants from hosts of plant pests. Cut-worms and adult tarnished plant bugs, squash bugs, cucumber beetles, Colorado potato beetles, Harlequin cabbage bugs, bean leaf beetles and other insects live during the winter in trash about the vegetable garden. Clean culture also tends to prevent many fungous diseases, as wilts and rusts, from spreading.



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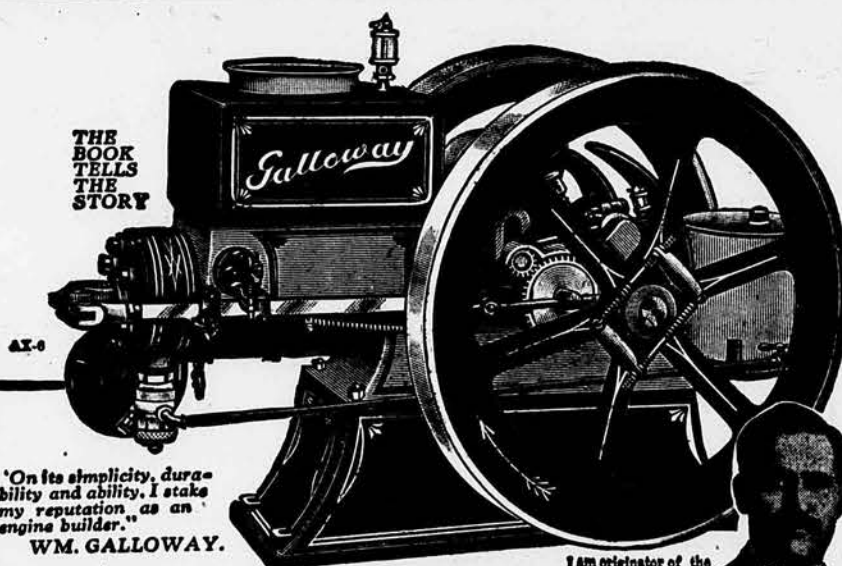
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True Delicious apple, 10c each. Large fruit, of a beautiful dark red, in quality unsurpassed, in flavor sweet, slightly touched with acid, coming out of storage in April in perfect condition. It makes an ideal apple for the orchard. Very hardy. Other apple trees, 7c each. Fruit trees, small fruits, and seeds of all kinds at wholesale prices. Reliable, hardy, western stock. Garden and flower seeds. Corn, clover, alfalfa and New Kherson Rust-Proof Oats. Write for free Tree and Seed Book.

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We desire to make this department just as helpful as possible, and believing that an exchange of experiences will add to its value, we hereby extend an invitation to our readers to use it in passing on to others experiences or suggestions by which you have profited. Any questions submitted will receive our careful attention and if we are unable to make satisfactory answer, we will endeavor to direct inquirer to reliable source of help. Address Editor of Home Department, Kansas Farmer, Topeka, Kansas.

As one lamp lights another, nor grows less, So nobleness enkindleth nobleness.—Lowell.

There is never a time when we can afford to be careless about fire risks.

How many times have you visited the school during the present school year? Are you and the teacher working together on a basis of understanding regarding your son and daughter? There is a limitation to the work that can be accomplished by the teacher without the co-operation of the parents.

Farm and Home Week

We feel sure the busy mother who left her household cares to another in order that she might attend the Farm and Home Week meetings at Manhattan last week, felt well repaid for the effort required to make the trip.

One feature about this year's meeting was the presence of the regular college students on every hand. The visitors saw the school working to capacity. However, nothing but harmony was in evidence and the courtesy of the students was noticeable.

Every session of the home economics program resounded the importance of woman and her influence in the world. We studied her as the loving wife and mother, the thoughtful and business-like spender, and the character- and habit-builder for her young family. This is a very broad field to cover in so short a time. As every mother knows, it is a field that is never covered, for ever before her stretches an unconquered spot in her individual experiences, but much valuable help can be obtained through a discussion of underlying principles, and this was the purpose of the program.

VALUE OF NUTRITION TO CHILD

We learned anew the direct relationship between the food the child eats and his attitude toward life—that his breakfast, dinner and supper influence far more than is generally believed, his ambition to make the most possible of his life and his opportunities. We were impressed with the complexity of the human body and the care of it necessary to give it wearing quality and allow it to yield its greatest possible return.

President Waters, in his talk to the women, emphasized the need for scientific investigation of the relation of food to human efficiency, to the end that our boys and girls may develop strong, disease-resisting bodies so necessary for moral and mental strength. He illustrated his talk with photographs of pigs used in feeding experiments at the college, showing the wholly different results obtained by the use of different feeds. He stated that though there is no comparison between pigs and children in most ways, yet the possibilities of response to nutrition tests is much the same in both. He told us of a school in the congested district of the city of St. Louis where the capacity for work is much below the average, which condition is attributable to the poorly nourished bodies of these unfortunate children.

Dean Willard gave it as his belief that malnutrition is the door through which many disease germs enter the body where they quietly do their destructive work long before their presence is realized.

What great importance all this places upon the study of the child's diet in order that his body may be properly nourished and developed and the waste tissues may be repaired.

EFFICIENT LIFE SERVICE

The theme of all the meetings was more efficient life service and we learned of the many different ways in which this life service is influenced by agencies over which we have control. One speaker said it requires twenty-two years to complete a human life. What a wonderful structure this is and unless it is built of the right material and with the greatest care, how foolish it is to expect it to withstand the tests of

strength to which it is bound to be subjected in the course of three score years and ten. Built poorly, it will succumb to the storms that beat upon it as does the house or barn that is not sufficiently reinforced with strong timbers.

IMPORTANCE OF MOTHER'S HEALTH

Special emphasis was placed on the value of the well-built body to the mother upon whom, to a great extent, depends the happiness and welfare of the family. One speaker went so far as to say that to be well is to be happy and that if people are well they cannot help smiling. She also brought out the need for the mother storing energy to be drawn upon on occasions of sickness in the family when her endurance is so greatly overtaxed by her extra cares and her anxiety. If she has some reserve energy, this will greatly relieve the physical strain at such times.

As a means toward this saving of strength and energy, the choosing of essentials from non-essentials was suggested. Illustrating this point, the speaker pictured the home where perfect order of the material furnishings has the right-of-way, leaving little time for supplying the more important needs of the family. For instance, no matter how good the books and magazines, if they must always be in place much energy will be required to keep them there and they will be of little real value. This practice sacrifices home-making for housekeeping. Each has its place, but surely the housekeeping should never be considered the more important.

HOUSEWIFE AS BUYING AGENT

As seventy-five to ninety per cent of the money earned is used in buying shelter, food and clothing, surely there is great need for the housewife to study the economy of spending this money judiciously. Many helps were given in this line. The keynote sounded on this question was that the housewife needs thorough training in her profession that she may know the articles for which the money goes and may know their value to her. A table filled with canned goods, meats, dried beans, cereals, etc., of the different qualities, graphically bore out the argument for economy in buying food. It was not hard to realize there are places where the cracked rice does quite as well as the whole grains, making possible a saving of half the cost. We also learned something about the different cuts of meat and the value of this knowledge to the buyer of meat.

After hearing the little talk on the development of judgment in the buying of clothing materials, no one could doubt the advisability of knowing these materials when buying them over the counter.

Concerning the buying of shelter, one speaker stated girls should be so trained that they will be able to plan their houses—be able to select the ground with regard to drainage, etc., select the lumber, know the prices of the materials that are needed for building the house, understand the details of the plans and be able to make a blueprint of them if necessary. She would have the housewife trained for efficiency as the purchasing agent for the family.

INTEREST IN CANNING CLUB EXHIBIT

The exhibit of the Glenwood Mother-Daughter Canning Club of Leavenworth County, which has won recognition both locally and from the Federal Department of Agriculture, stood on the stage of the college auditorium throughout the week where all might have an opportunity to examine it closely. It received much attention and many favorable comments were heard about the accomplishments of this club. Two of the teams in this club—Mrs. J. M. Timmons, Miss Edith Timburg, Mrs. E. L. Marshall, Miss Lela Hampton—gave a canning demonstration Thursday afternoon and Mrs. Timmons, president of the club, gave the history of the club and told of the work it has done and that planned for the future. We attended no meeting where the interest was greater than at this one. At



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51st YEAR. Over 28,000 former Students. Our modern Building has 15 elegant Rooms, including FREE GYMNASIUM and Auditorium, 22 experienced Teachers and Lecturers. Day and Night Schools all Year. Free Employment Bureau. Shorthand, Typewriting, Book-keeping and English Branches. Catalogue "K" Free. J. F. Spalding, A. M., Pres.

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John Baer Tomato

To lovers of tomatoes we will give one 15c package of the famous tomato if you will distribute advertising papers among your friends. This offer is to make better known Lincoln Brand Seeds, the new trade name for the well-known Lincoln Brand Seeds. Quality Seeds. Or, enclose ten cents for mailing expense and we will send you in addition a ten cent package of each of these three new seeds—Arctic Seed, Corn-Delicious Gold Lined Muskmelon—New Marvel Fennel—four big packages in all, and a copy of our new, big 1917 Seed Annual FREE. Address:

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Onion sets and all kinds of field and garden seed. Send for our catalog. It is free.

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"MORTGAGE-LIFTER" CORN

The best 100-day Corn in existence. Biggest grains and smallest cob. Tops the market. Grows anywhere and stands wet or dry weather better than any other. Send for Free Sample and big 100-page Seed Book.

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FREE A pair of Mated Everbearing Strawberry plants, large pkt. of new cereal Potatoes, Sudan Grass and Silk Leaf Peony seed, all Free for testing. Send 10c for mailing expense, or not, as you please. We offer genuine Progressive Everbearing plants at 50c per doz.; 90c for 10; \$1.75 for 100; \$5.00 for 225, all postpaid. **CATALOG FREE.**

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I Buy Sweet Clover

White bloom. Send sample and very lowest price. Address **BOX 375, EMPORIA, KAN.**

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the close of Mrs. Timmons' talk she was kept busy for three-quarters of an hour answering questions about the different operations in canning fruits, vegetables and meats. These were answered in a very comprehensible way and out of the experience of herself or other members of the club.

BOYS' AND GIRLS' PROGRAM

The entertainment for the boys and girls was in charge of Otis E. Hall, State Club Leader. This was a very complete program and was enjoyed by all. There were a number of good talks designed to help the young folks in their club work, there were judging demonstrations of live stock and field crops, and these were interspersed with periods of recreation in which there were short, exciting contests in rope-tying, sewing, also games in which all were invited to take part.

These children were a happy bunch and we are sure they took home with them memories and ideas that will bear good fruit in their lives. Too much importance cannot be placed upon directing the activities of the boys and girls, and each year's results of the state club work are more gratifying.

We have here only touched upon some of the things of importance in the programs for the women and the boys and girls. It would take many pages to report this meeting. But the true worth of Farm and Home Week cannot be measured on paper—it will be realized and understood only by those who put into practice the helpful suggestions

gathered during the week. The meetings abounded in these but unless they are applied they will be lost.

Much credit is due the members of the Extension Division of the college, who plan this annual program. Those in attendance are loud in their praise of this effort to hold a state-wide institute. This year the visitors numbered over 1,500, and we regret that not more were able to be present. The whole meeting is designed to further permanent, prosperous, satisfying agriculture, and covers the wide scope necessary to this end.

Savory Fried Apples

Fry a sliced onion until tender, in bacon drippings. Add quartered and cored apples—pared or not, as you prefer. Fry until tender, then add sugar to taste, and watch carefully to see that the apples brown without burning. This combination is as delicious as it is unusual.

Grape Souffle

- 1 pint grape juice
- 1/2 cupful granulated sugar
- 1 package gelatin
- Whites of two eggs
- Pinch of salt

Heat grape juice and sugar in double boiler. Dissolve gelatin as directed on package, add salt. Pour gelatin into grape juice and sugar and let it all heat through, then pour into bowl to cool. When it begins to congeal, beat into it the stiffly beaten whites of the eggs. Serve with whipped cream.

FASHION DEPARTMENT—ALL PATTERNS TEN CENTS

This department is prepared especially in New York City, for Kansas Farmer. We can supply our readers with high-grade, perfect-fitting, seam-allowing patterns at 10 cents each, postage prepaid. Full directions for making, as well as the amount of material required, accompanies each pattern. When ordering, all you have to do is to write your name and address plainly, give the correct number and size of each pattern you want, and enclose 10 cents for each number. We agree to fill all orders promptly and guarantee safe delivery. Special offer: To anyone ordering a pattern we will send the latest issue of our fashion book, "Every Woman Her Own Dress-maker," for only 2 cents; send 12 cents for pattern and book. Price of book if ordered without pattern, 5 cents. Address all orders for patterns or books to Kansas Farmer, Topeka, Kansas.



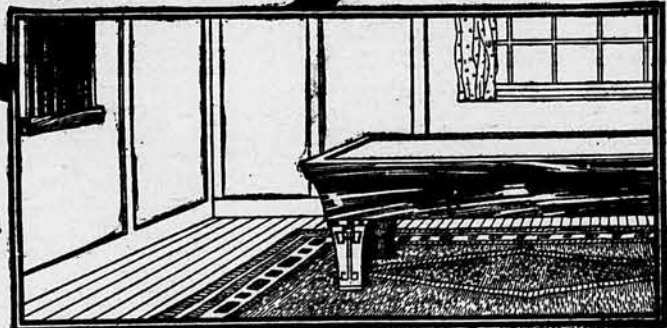
No. 8032—Girls' Dress: Cut in sizes 6, 8, 10 and 12 years. Keeping the school-girl up to date is easy enough, when a dress like the one illustrated is the choice. The plain waist and three-gored gathered skirt. Join under a belt of separate material. A round collar, flaring cuffs and patch pockets in contrasting color, give an air of distinction. No. 8013—Ladies' Dressing Sacque: Cut in sizes 34 to 44 inches bust measure. The picture tells that the designed has the right idea of what a really comfortable dressing sacque is like. This garment is cut in a becoming length with the front ends meeting at the center. There is a choice of plain or full sleeve and two styles of collars. No. 8036—Girls' Dress: Cut in sizes 6 to 12 years. The closing outline of this dress shows that Fashion tried her hand at novelty with pleasing effect. The little frock is in one piece from the shoulder to the lower edge, having the back fitted with a tuck in each half; a belt holds in the graceful folds of the skirt section. No. 8042—Ladies' Apron: Cut in sizes 36 to 42 inches bust measure. A smarter or more comfortable model for housework or wear in the studio would be hard to find. Cut in one piece, this apron offers good protection for the dress and there is just the right touch of trimming given with contrasting goods for the yoke neck. No. 8027—Ladies' Skirt: Cut in sizes 24 to 32 inches waist measure. Designed according to the latest fashion notes, this model cut in six gores is an excellent one for two materials. The plaited effect at the back is a noteworthy development because the treatment suggests the popular yoke. The front goes of separate material prominently marks a panel beginning at shallow yoke depth and is the distinctive feature. No. 8011—Ladies' House Dress: Cut in sizes 34 to 44 inches bust measure. A thoroughly up to date serviceable garment is shown in the picture, with a tuck in each front and left front closing with button decoration to yoke depth. The neck finishes without a collar, but the sleeve sare cuffed with contrasting goods. The skirt is cut in seven gores.

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NEARLY every home has a bare, empty room that is rarely occupied. Why not fix it up? Use Cornell-Wood-Board for the walls and ceilings; put in a billiard table or other games and you'll find it the most popular room in the house. Not only will Cornell-Wood-Board transform any room in the house but it is ideal for the walls and ceilings of the Milk House, Dairy Barn, Chicken House, Garage, Stable, Summer Kitchen, Porch Ceilings, Closets, all alterations and repairs and 100 different emergency uses on the farm.

Every farmer should keep a bundle on hand for repairs.

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Send sample and complete information — or — send Panel Suggestions as per dimensions or blueprints attached. I am not obligated by this service.

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Chicks
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118
Fertile
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"My first X-Ray hatch is 109 fine, sturdy chicks from 118 fertile eggs."

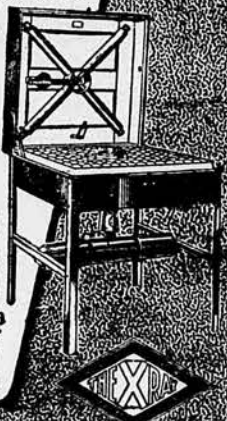
MRS. J. B. WERNETTE, Remus, Mich.

Learn why the 1917 X-Ray Incubator is the greatest incubator ever created. Five New 191 Innovations—the new X-Ray Egg Tester, the new X-Ray Nursery Tray, the new X-Ray Gas Arrestor the new Quick-Cooling Egg Tray and the new Handy Height design at no increase in price.

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Has 20 Exclusive Hatch-
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ALL THE FINEST VARIETIES OF STRAWBERRIES Wonderful Plants—Millions of them—EASIEST FRUIT FOR YOU TO GROW. 50 FINEST PLANTS For Every Home FREE

Send Name Quick for Beautiful Colored Folder and Offer. DIXON—The Strawberry Plant King, Box 220, HOLTON, KANS.

As Nearly Perfect As You Can Procure
Clover, Alfalfa, Sweet Clover, Timothy and all kinds of grasses and seed grain of highest quality. Samples and special price list and book of information free. Catalog Free. IOWA SEED CO. Des Moines, Iowa

FREE BOOK ON TREES
Tells about large assortment of best trees and plants at lowest prices. Ask for Preferred Customer's Discount. No obligation. Book is free. Send for it now. Address WELLINGTON NURSERIES, Desk G, Wellington, Kana.

Trees By the Million

Direct From Grower To You

MAKE NO MISTAKE ABOUT THIS.—The zig-zag journey trees, vines and plants take when you buy from an agent, doesn't add to the quality of the stock—but merely to the original grower's price. YOU pay all this additional profit when you buy the OLD way.

BUY MY WAY—the NEW way direct from my big Planters Nursery Co. and save all useless profits of Wholesaler, Retailer and Agent. You keep the difference and are sure of trees that are fresh with dandy root systems and full of life.

LOOK! NOTE THESE BARGAIN COLLECTIONS ACT!

10 SELECT APPLE TREES—2 year 5 to 6 ft. trees. 1 Delicious, 2 Stayman, 1 Black Ben, 2 King David, 1 Jonathan, 3 Winesap. Agents ask \$5.00. Collection No. 1. **\$1.50**

20 SELECT APPLE TREES, extra size—2 year, 5 to 6 foot, Stayman, Black Ben, Winesap and other best varieties. Fine, big, extra heavy trees. Agents ask \$8.00. Collection No. 2. **\$2.50**

10 SELECT PEACH TREES—4 to 5 foot trees. 5 Elberta, 1 Chinese Cling, 1 Belle of Georgia, 2 Champion, 1 Carman. Agents ask \$3.00. Collection No. 3. **\$1.25**

20 SELECT PEACH TREES—3 to 4 foot. 10 Elberta, 3 Champion, 2 Mamie Ross, 5 Belle of Georgia, the cream of good varieties. Agents ask \$5.00. Collection No. 4. **\$2.00**

20 PEACH COMPLETE FAMILY ORCHARD—2 to 3 foot, stock, well rooted. 2 Early Wonder, 2 Mamie Ross, 2 Champion, 7 Elberta, 3 Belle of Georgia, 2 Heath Cling, 2 Late Elberta. Covers all season, earliest to latest. Agents ask \$4.50. Collection No. 5. **\$1.60**

5 APRICOT TREES—3 to 4 foot. 5 Moorepark, 5 Royal, Hardest and best varieties. Agents ask \$2.50. Collection No. 6. **\$1.10**

10 SELECT PEAR TREES—2 year, 5 to 6 foot. 8 Keffler, 2 Garber, the biggest money-makers for the middle west. Agents ask \$5.00. Collection No. 7. **\$1.60**

10 SELECT PLUM TREES—4 to 6 foot. Burbank, Abundant, Red June and Wickson, all fine, quick bearing varieties. Agents' price, \$5.00. Collection No. 8. **\$2.00**

10 SELECT CHERRY TREES—4 to 5 foot. 4 Montmorency, 4 Early Richmond, 1 English Morello, 1 Wragg. Agents get \$8.50. Collection No. 9. **\$2.90**

10 CHOICE GRAPE VINES—2 year. 1 Catawba, red; 3 Concord, black; 2 Niagara, white; 1 Moore's Early, black; 3 Worden, black. Agents get \$2.00. Collection No. 10. **\$.75**

25 CONCORD GRAPE, BIG VINES—Most widely planted black grape. Everybody loves 'em. Easily cultivated. Agents get \$2.50. Collection No. 11. **\$.90**

100 EVERBEARING STRAWBERRIES—Best variety Progressive. Bear until the snow melts. Hardy, vigorous. Agents ask \$5.00. Collection No. 12. **\$2.00**

300 EVERBEARING STRAWBERRIES—200 Progressive, 100 Superb. Bear right up until frost time. A wonderful bargain. Agents ask \$15.00. Collection No. 13. **\$4.00**

Order Direct From This List at Lowest Growers Prices.

SAVE FROM 50% to 75%

DON'T WAIT FOR A PRICE LIST.—No need to. Here's plenty of luscious fruit—plenty of good things. ORDER RIGHT FROM THE ABOVE LIST. See how much you'll save. See how wonderfully surprised you'll be. Money back if not satisfied. Send for my complete 1917 Catalog for prices and descriptions of all my stock.—Trees, Vines and Plants of all kinds.

CHARLES DUNBAR, Grower

PLANTERS NURSERY CO.

721 HARRISON ST.

WINFIELD, KANSAS

Come To Wichita, Kansas February 22-23-24

And see the largest exhibit of Power Farm Machinery that will be exhibited in the Southwest at any one time or place this year at big

Fifteenth Annual Interstate Thresher and Tractor Show OF KANSAS, OKLAHOMA AND TEXAS

Two Nights of Free Entertainment

There will be on exhibit over a MILLION dollars' worth of Power Farm Machinery, consisting of Steam, Gas and Oil Tractors, Threshers, Road Machinery, Plows and Accessories too numerous to mention.

ENTRANCE TO ALL MACHINERY EXHIBITS FREE

Application made for reduced rates on all railroads.

Remember the time and place—February 22, 23, 24—Wichita, Kansas.

HEADQUARTERS — FORUM OR CONVENTION HALL

THE STRAY LIST.

TAKEN UP—BY ROY J. PHILLIPS, Council Grove, Council Grove Township, Morris County, Kansas, on December 13, 1916, one red heifer, no marks or brands. Appraised at \$25. Lee A. Moser, County Clerk.

TAKEN UP—BY MAGGIE A. BOLTON, Council Grove, Council Grove Township, Morris County, Kansas, on December 21, 1916, one mare mule two years old, color brown, no marks or brands. Appraised at \$55. Lee A. Moser, County Clerk.

TAKEN UP—BY OWEN O'NEIL, of Windom, McPherson County, Kansas, on the twentieth day of December, 1916, one heifer coming two years old, color deep red, no marks or brands. W. E. Rostine, County Clerk, McPherson, Kansas.

TAKEN UP—ON THE 15TH DAY OF March, 1916, by C. S. Heath, whose residence is eight miles north and 3 1/2 miles east of Leoti, East Edwards Township, Wichita County, one mare pony about 4 1/2 feet high, weight 750 pounds, color sorrel, age nine years, brand "C" on left hip, white stripe in face, appraised at \$30. Dean Trueblood, County Clerk, Wichita.

Classified Advertising

HELP WANTED.

BE A GOVERNMENT FARMER. GOOD pay; steady, interesting job. Write Central Institute, 44-F, St. Louis.

MAN OR WOMAN TO TRAVEL FOR old established firm. No canvassing; \$1,170 first year, payable weekly, pursuant to contract. Expenses advanced. G. G. Nichols, Philadelphia, Pa., Pepper Bldg.

FARMERS 18 OR OVER—GET GOVERNMENT jobs, \$75 to \$150 month. Vacations with full pay. Spring examinations everywhere. Education unnecessary. Sample questions free. Write immediately. Franklin Institute, Dept. W-82, Rochester, N. Y.

AGENTS WANTED.

GOOD MAN TO TAKE ORDERS, GET own clothes free, make big money. Knickerbocker Tailoring Co., Dept. 594, Chicago.

WE PAY \$80 MONTHLY SALARY AND furnish rig and expenses to introduce guaranteed poultry and stock powders. Bigler Company, X 671, Springfield, Ill.

AGENTS—100 PER CENT PROFIT guaranteed selling sprayers, gasoline pumps and auto washers. Write Rusler Company, Johnstown, Ohio.

REAL ESTATE.

TRADES EVERYWHERE—EXCHANGE book free. Berrie Agency, El Dorado, Kan.

GEORGIA, \$7.00 ACRE UP, RICH SOIL, ranches, farms. Investigate. H. Lee Davis, Aiken, S. C.

IF YOU WANT TO SELL OR EX- change your property, write me. John J. Black, Desk C, Chippewa Falls, Wis.

WANTED—TO HEAR FROM OWNER OF good farm for sale. Send cash price and description. D. F. Bush, Minneapolis, Minn.

NEW FARM OPPORTUNITY IN ONE OF the greatest states in the Union. A new line of the Santa Fe is tapping a rich and fertile prairie section of Northwest Texas, where already many farmers have made good in a big way with wheat, hogs and live stock. Here, if you act now, you can get first choice—get in on the ground floor of a great opportunity. You can get in ahead of the railway—head of the people whom the railway will bring—ahead of those who act more slowly than you do. This is the chance of a lifetime for a man of moderate means. A certain number of thrifty, far-seeing farmers can acquire good land at an astonishingly low figure and on long, easy terms. If you have confidence that a great railroad, like the Santa Fe, would only recommend what it considers a good thing, and because it wants to see new territory developed and wants newcomers to prosper and produce—then write me today for particulars about this district. Mild climate, social advantages, schools, churches, telephones, good roads. Everything there but enough men with their families. Will you be one of the fortunate first comers to reap the advantages of a section that has been minutely inspected by a Santa Fe agricultural agent and pronounced right? Write me now and let me send you a copy of the special illustrated circular we are getting out. C. L. Seagraves, Industrial Commissioner, A. T. & S. F. Ry., 931 Railway Exchange, Chicago.

WISCONSIN LAND FOR SALE

LANDOLOGY, A MAGAZINE GIVING the facts in regard to the land situation. Three months' subscription free. If for a home or as an investment you are thinking of buying good farm lands, simply write me a letter and say, "Mail me Landology and all particulars free." Address Editor, Landology, Skidmore Land Co., 301 Skidmore Bldg., Marinette, Wis.

HORSES AND MULES.

CLOSING OUT SALE OF SHETLAND ponies. Geo. Aid, Gallatin, Mo.

FOR SALE—THREE REGISTERED PER- cheron stallions, coming 2 years old. W. E. Dustin, Route 1, Topeka, Kansas.

SALE OR TRADE FOR YOUNG STOCK. 15-16th Belgian stallion 9 years old, weight 2,000 pounds; 65 per cent breeder. W. G. Shideler, Silver Lake, Kansas.

FOR SALE—TABASCO 5936, AMERICAN saddle horse, perfect beauty, gentle, five years old. Will exchange for Holstein cows or heifers. R. A. Bower, Eureka, Kansas.

WANTED—TO TRADE 1,000-POUND registered blue ribbon jack, 7 years old, black, for good draft stallion. J. E. Itschner, Box 122, Sayre, Okla.

JACK FOR SALE OR TRADE—FIVE years old, gray, 14 hands jack measure; excellent breeder. Sacrifice price. Harry Bilson, Eureka, Kansas.

SHETLAND AND WELCH SPOTTED stallion, 650 pounds, 4 years, extra stylish driver, and some cash for good registered black or bay draft or jack. Lewis Cox, Concordia, Kan.

TREES, SEEDS AND PLANTS.

CLEAN ALFALFA SEED FOR SALE. Edwin S. Young, Route 10, Oklahoma City.

WATERMELONS—GUARANTEED PURE. Both Halbert Honey and Rubber Rind. H. A. Halbert, Originator, Coleman, Texas.

BOW CREEK FARM SEEDS—ALFALFA, feterita, kafir, Sudan grass, corn. (Sudan, sweet clover wanted.) Logan, Kansas.

TEN ELBERTA AND FIVE CHAMPION peach trees, postpaid, \$1. Send now. Wellington Nurseries, Dept. C, Wellington, Kan.

SUDAN GRASS SEED FOR SALE, 35c per pound; 100 pounds at 30c, f. o. b. J. K. Burke, Estacado, Texas.

SEED CORN—BOONE COUNTY WHITE, carefully selected, \$2.50 per bushel shelled. J. W. Taylor, Edwardsville, Kansas.

TREES, SEEDS AND PLANTS.

TREES AT WHOLESALE—CATALOGUE free. Agents wanted. Peyton Nurseries, Boonville, Mo.

NURSERY STOCK OF QUALITY THAT bears the choicest. Send for free catalog. Alpha Nursery, Alpha, Ill.

ALFALFA SEED, CHOICE, RECLEANED new crop at \$8 per bushel. Write for samples. C. Markley, Belle Plaine, Kansas.

TIMOTHY SEED—FANCY, NEW CROP. Recleaned timothy seed at \$2.50 per bushel. Write today for samples. Watson Bros., Seed Merchants, Milan, Mo.

SEED CORN—DIAMOND JOE WHITE, excellent drought resister, and Reid's Yellow Dent. Graded, \$2.50 bushel. D. D. Denver, Milford, Kansas.

IOWA GOLD MINE AND BOONE CO. White seed corn, selected, shelled, graded, \$2 per bushel. Choice alfalfa seed, \$7.50 per bushel free. J. F. Feigley, Enterprise, Kan.

REID'S YELLOW DENT, BOONE COUNTY White seed corn. Genuine Red Texas seed oats, clover, timothy and alfalfa seed. S. G. Trent, Hiawatha, Kansas.

TREES, SHRUBS, PLANTS, VINES, seeds. Everything at lowest prices direct to you. All tree peddlers' commissions cut out. Free book. Wichita Nurseries & Seed House, Shell Bldg., Wichita, Kansas.

SEND \$1.00 FOR 100 PROGRESSIVE strawberry plants and get our Twentieth Century Berry Book absolutely free. Worth dollars to you. E. W. Townsend, Box 3, Salisbury, Md.

SEED CORN—IMPROVED HIGH YIELD- ing varieties. Guaranteed and priced reasonable. Let us send you pictures of this great corn. Write J. T. Bristow Seed Corn Farms, Wetmore, Kansas.

PURE WHITE BLOSSOM SWEET-CLO- ver seed direct from grower. Hulled, \$15; scarified, \$16 per hundred pounds. Circulars and samples free. Willis Conable, Axtell, Kansas.

RED TEXAS RUST-PROOF SEED OATS, recleaned and carefully graded. You buy nothing but oats. Grown here one year. They are fine. Let me send you a sample and price. Warren Watts, Clay Center, Kan.

ALFALFA SEED FROM HIGH PRODUC- ing fields. 370 bushels threshed from forty acres. Quick to recover after each cutting. 95% germination, 99 purity. Test made by County Agent Schnacke. Won first at our fair. Price, \$8 per bushel, new sacks, 25c. Stockwell Farms, Larned, Kansas.

KAFIR SEED—WE HAVE TWO CARS fine white kafir seed testing over 90 per cent germination, which we will sell while it last in 2-bushel sacks at \$1.85 per bushel. Sacks free. It is going to be hard to find good kafir like this this year. If you will need kafir, better order quick. Brooks Wholesale Co., Ft. Scott, Kan.

MISCELLANEOUS.

CASH PAID FOR BUFFALO NICKELS and Lincoln pennies. Dime gets coin list. Dime refunded if dissatisfied. Clarence Beck, Terre Haute, Texas.

YOU CAN MAKE A GOOD LIVING IN your back yard raising Belgian hares. Full particulars and price list of all breeds, 10c. W. G. Thorson, Aurora, Colo.

FOR SALE—16-HORSEPOWER GASO- line engine on steel trucks; good as new. Double seated carriage, rubber tires, good as new, cost \$480, or will trade either of the above. Make me an offer. H. W. McAfee, Route 8, Topeka, Kansas.

BUSINESS CHANCES

FREE FOR SIX MONTHS—MY SPECIAL offer to introduce my magazine, "Investing for Profit." It is worth \$10 a copy to any one who has not acquired sufficient money to provide necessities and comforts for self and loved ones. It shows how to become richer quickly and honestly. Investing for Profit is the only progressive financial journal and has the largest circulation in America. It shows how \$100 grows to \$2,200. Write now and I'll send it six months free. H. L. Barber, 431.28 W. Jackson Boulevard, Chicago.

DOGS.

HIGH CLASS PEDIGREED ST. BER- nard pups, price \$25. F. J. Lefferdink, Hickman, Neb.

FOR SALE—PAIR GUARANTEED COON hounds. Send 2 cents for prices. John Rash, Centerville, Kansas.

AIRDALE—THE GREAT TWENTIETH century dog. Collies that are bred workers. We breed the best. Send for list. W. R. Watson, Box 128, Oakland, Iowa.

CATTLE.

FOR SALE—EIGHT HEAD CHOICE high grade Polled Durham cows, heifers and bull. C. M. Albright, Overbrook, Kan.

FOR SALE—REGISTERED HOLSTEIN bull, fifteen months old. Good breeding. Priced to sell. F. E. Weed, Athol, Kansas.

POLLED JERSEYS—BREEDERS' NAMES of Chas. S. Hatfield, Secy., Box 40, Route 4, Springfield, Ohio.

FOR SALE—REGISTERED HOLSTEIN bulls, ready for service. Prices right. G. H. Ross, Independence, Kansas.

FOR SALE—REGISTERED GUERNSEY bull, serviceable age; May Rose-Glenwood breeding. For description and price write W. E. Evans, Jewell, Kansas.

FOUR REGISTERED JERSEY COWS and heifers for sale. Golden Lad and St. Lambert breeding. Priced to sell. W. F. Pyke, Marion, Kansas.

(Continued on Next Page.)

HOLSTEIN CATTLE.

CLYDE GIROD, At the Farm

HOLSTEIN-FRIESIAN FARM, TOWANDA, KANSAS

Brooders of pure-bred Holsteins. Special attractions in choice young bulls ready for service, with fashionable breeding. Write for pedigrees and prices. We maintain a breeding herd of pure-bred females and offer a grand lot of young springing heifers and cows, a number with A. R. O. records at prices within reason.

IT WILL PAY YOU TO SEE OUR OFFERING

Of choice extra high grade young cows and heifers, all springers in calf to pure-bred sires; large developed females, good udders, well marked and the right dairy type at prices that will challenge comparison for Holsteins of their breeding and quality. A visit to our farm will convince you. Keep us in mind before purchasing. Wire, write or phone.

GIROD & ROBISON

MAURER'S HOLSTEIN FARM

We have a choice lot of high grade cows, fresh and springers. Also grade and pure-bred calves of either sex. We can please you in good Holsteins.

T. B. MAURER & COMPANY

EMPORIA, KANSAS

Real Estate For Sale

Have been in business here nine years. Can serve you, should you wish to buy land in Eastern Oklahoma. Write us. SOUTHERN REALTY CO., McAlester, Okla.

EIGHTY-ACRE FARM, good buildings, land in high state of cultivation. Well located. A special bargain at a special price. Come at once, as this farm should not be on the market long. Possession on short notice. Terms if wanted. Write for list of any size farm you are interested in. Clover, alfalfa and corn land. MANSFIELD LAND CO., Ottawa, Kansas.

RANCH FOR SALE

Eight miles from county seat and shipping point. One-half mile to school. 200 acres under cultivation; 400 or 500 acres good alfalfa land if cultivated; creek running through place giving plenty of living water; 200 acres or more of good timber; excellent shelter for stock; balance good buffalo grass pasture. Nine-room story-and-a-half house, cistern, well, wind mill, carriage shed, granary, corrals, hog lots, chicken yards, etc. This is one of the best ranches in the county. Come and be shown. Have lived on ranch for forty years, am retiring. P. C. WOLF, 202 MEDICINE LODGE, KAN.

CLASSIFIED ADS.**CATTLE.**

300 HEAD OF REGISTERED AND HIGH grade cows and heifers for sale, headed by the great 40-pound bull, Johanna King Selg. Neal Houslett, Oxford, Wis.

FOR SALE CHEAP—A PURE-BRED Jersey bull, four months old; from an extra good milker. Milk test of nearly 8 per cent. Eber Anderson, Clay Center, Kansas.

FOR SALE—SIX PURE-BRED SHORT- horn bulls from six to ten months old. Good lusty calves at the right price. Warren Watts, Clay Center, Kansas.

HOLSTEINS FOR SALE—ONE PURE- bred heifer calf and four grades, nicely marked and colored. Arthur Findlay, Whitewater, Wis.

FOR SALE—TWENTY HIGH GRADE Holsteins, 2 and 3 years old; large, nearly pure, fresher soon. Ernest Holmes, Garnett, Kansas.

FOR SALE—TEN HIGH GRADE GUERN- sey cows and 150 pure-bred Duroc hogs. Bred sows, gilts, boars and fall pigs. Write for information. George M. Newlin, Hutchinson, Kansas.

WANTED—TEN HIGH GRADE OR REG- istered cows to be fresh in March or April. Give full description and price in first letter. Geo. V. Dean, Columbus, Kansas, care T. A. Blake.

HIGHLY BRED HOLSTEIN CALVES, either sex, 15-16ths pure, crated and delivered to any station by express, charges all paid, for \$20 apiece. Frank M. Hawes, Whitewater, Wis.

FOR SALE—SEVERAL GRADE POLLED Durham yearling bulls at \$50. Two full-blood yearlings at \$65. My herd bull coming four years, gentle, recorded in both books, at \$100. One hundred western ewes five years old, bred to Shropshire bucks to lamb in March, at \$9. David Baumgartner, Halstead, Kansas.

FARM AND HERD.

Ross & Vincent of Sterling, Kansas, are among the live boosters for improved stock in Kansas. They have good herds of Percheron horses and big-type Poland China hogs and report both herds doing well. This year they have bred a large number of gilts for March and April farrow. They are of Douglas Jr., Improved King Jr. and Cowles' Orange breeding.

As a result of the efforts of George W. Elia of Valley Falls, Kansas, and other Kansas Hampshire swine breeders, a meeting has been called to be held in Topeka on March 3 for the purpose of organizing a State Hampshire Swine Breeders' Association. E. C. Stone, secretary of the American Hampshire Breeders' Association, will be present and assist in the organization of the Kansas breeders. The organization of the association will be followed by an organized effort to secure a big Hampshire exhibit at the Topeka State Fair this year.

L. L. Humes of Glen Elder, Kansas, is one of the progressive young farmers of that section of the state and is also one of the live workers for improved stock on Kansas farms. He is building up a choice herd of pure-bred Duroc Jersey hogs with foundation stock from the best Duroc herds in the country. He has just completed a modern hog barn that is a model of convenience and utility.

W. B. Wallace of Buncheon, Missouri, held one of the good Poland China bred sow sales of the season. Sows bred to the great King Joe were in demand. No. 1 in the catalog topped the sale at \$240, going to W. W. Perry of Spruce, Mo. The offering was presented in good breeding condition. The forty head catalogued sold for an average of \$148. These prices were very satisfactory to Mr. Wallace.

HOLSTEIN CATTLE.

F. W. ROBISON, Cashier Towanda State Bank

HOLSTEIN-FRIESIAN FARM, TOWANDA, KANSAS

Brooders of pure-bred Holsteins. Special attractions in choice young bulls ready for service, with fashionable breeding. Write for pedigrees and prices. We maintain a breeding herd of pure-bred females and offer a grand lot of young springing heifers and cows, a number with A. R. O. records at prices within reason.

IT WILL PAY YOU TO SEE OUR OFFERING

Of choice extra high grade young cows and heifers, all springers in calf to pure-bred sires; large developed females, good udders, well marked and the right dairy type at prices that will challenge comparison for Holsteins of their breeding and quality. A visit to our farm will convince you. Keep us in mind before purchasing. Wire, write or phone.

GIROD & ROBISON

MAURER'S HOLSTEIN FARM

We have a choice lot of high grade cows, fresh and springers. Also grade and pure-bred calves of either sex. We can please you in good Holsteins.

T. B. MAURER & COMPANY

EMPORIA, KANSAS

**Purebred Registered
HOLSTEIN
CATTLE**

The scope of its labors and the numerous details involved in the administration of the affairs of the Holstein-Friesian Association are best comprehended by a consideration of the fact that during the fiscal year ending April 30, 1916, \$158,094.50 was received by the secretary's office for the registration of pedigrees and for transfers. This volume of business required 46,760 entries in the cash books, and the issuance of 142,120 certificates, and this prodigious labor is demanded for the conduct of but one department of the greatest dairy cattle breeders' association in the world.

Send for FREE Illustrated Descriptive Booklets. The Holstein-Friesian Association of America. F. L. Houghton, Sec'y. Box 114, Brattleboro, Vt.

REGISTERED HOLSTEINS

We want to cut down our herd. Will sell ten or twelve choice cows, most of them young, also a few heifers.

M. E. MOORE & CO. - CAMERON, MO.

HOLSTEIN COWS

Holstein cows, springers or bred heifers. Very large, good markings, out of best milking strains, bred to pure-bred bulls of the very best blood. Special prices on carload lots. J. C. ROBISON, TOWANDA, KANSAS

CORYDALE FARM HERD

Offers for sale four bull calves two to four months, sired by Jewel Paul Butter Boy 94245. These calves are all nicely marked and from good milkers.

L. F. CORY & SON, BELLEVILLE, KAN.

Sunflower Herd Holsteins

Watch for Date of Big Public Sale. 150 head bred for production. Get catalog early.

F. J. SEARLE - OSKALOOSA, KANSAS

Butter Bred Holsteins

Buy your next bull calf from a herd that won the butter test over all breeds.

J. P. MAST - SCRANTON, KANSAS

The Cedar Lane Holstein Herd

We are now offering some exceptionally good bulls of serviceable ages at very attractive prices. These calves are sired by our 29.4-pound grandson of Pontiac Korndyke.

T. M. EWING, INDEPENDENCE, KANSAS

LILAC DAIRY FARM

Route No. 2, Topeka, Kansas.

BREEDERS OF PURE-BRED HOLSTEINS

Bulls from A. R. O. cows, all ages, for sale.

GOLDEN BELT HOLSTEIN HERD

Herd headed by Sir Korndyke B. Hello No. 165946, the long distance sire. His dam, grand dam and dam's two sisters average better than 1,200 pounds butter in one year. Young bulls of serviceable age for sale.

W. E. BENTLEY, MANHATTAN, KANSAS

REGIER'S HOLSTEINS

Holstein-Friesian A. R. O. bulls ready for service. World's record blood flows in their veins.

G. REGIER & SONS, WHITEWATER, KAN.

HOLSTEIN CALVES—Ten heifers and two bulls, 15-16ths pure, beautifully marked, 5 weeks old, from heavy milkers. \$20 each, crated for shipment anywhere. Write EDGEWOOD FARM, Whitewater, Wis.

TREDICO BULLS
G. C. T.
Kingman, Kansas

HOLSTEIN CALVES.

Very high grade heifer calves, five weeks old, nicely marked, \$20 each delivered to your station. We can supply you with registered or high grade Holsteins, any age or number, at reasonable prices. Clover Valley Holstein Farm, Whitewater, Wis.

CEDAR LAWN FARMS

C. A. Schroeder & Sons, Props. Forty years of registered Holstein breeding, not dealing. Birthplace of 40-pound cow, Johanna DeKol Van Beers. State wants and get delivered prices on young bulls.

W. O. SCHROEDER - WEST BEND, WIS.

Braeburn Holsteins

A. R. O. BULL CALVES

H. B. Cowles, 608 Kansas Av., Topeka, Kan.

HIGH GRADE HOLSTEIN CALVES

Five to six weeks old, nearly pure, well marked, \$20, express paid.

COLD SPRINGS FARM, Whitewater, Wis.

WHEN WRITING TO ADVERTISERS

PLEASE MENTION KANSAS FARMER

The Kansas Hereford Breeders'**Second Annual Sale****Saturday, March 3, 1917**

D. D. Casement, Manhattan, is consigning one bull sired by Caldo 7th.

Drennan Bros., Blue Rapids, are consigning one bull by Romany Rye and one by Columbus Y, out of Anxiety-bred cows.

Samuel Drybread, Elk City, is consigning six bulls by Beau Gallant and Rupert Donald from cows by Beau Donald 4th and Chancellor.

J. R. Goodman, White City, is consigning two heifers by Odessa Lad 10th and Caesar 8th. One is bred to the \$2,500 "The Monarch."

Howell Bros., Herkimer, are consigning one heifer by Clark out of a Druid cow, and bred to Boatman Jr.

E. S. Jones, Emporia, is consigning four bulls by sons of Dandy Andrew and Beau Mystic 11th out of intensely bred Anxiety cows. Also two cows of similar breeding which are bred to Beau Mystic 59th.

The Kansas State Agricultural College, Manhattan, is consigning four bulls and three females of excellent breeding.

Klaus Bros., Bendena, are consigning six bulls by Beau Onward out of Fulfiller cows.

George Lungstrom, Lindsay, is consigning two bulls by Dandy Andrew 8th out of cows by Lincoln 7th and Simpson.

Carl Miller, Belvue, is consigning two open heifers by Laredo Boy and Sir Paul from splendid dams.

John J. Phillips, Goodland, is consigning two bulls by Paladin 8th and three by Beau Monington, a son of Beau Mischief. Also a Beau Monington heifer.

John Poole, Manhattan, is consigning four bulls, two of which are polled, and one polled cow with heifer calf at side by a son of Bright Stanway.

W. H. Rhodes, Manhattan, is consigning one bull by Hal Donald out of a Parsifal cow, one bull and two heifers by Bonnie Beau 2d who is out of a Bonnie Brae 8th cow.

J. M. Rodgers, Beloit, is consigning three bulls and one heifer by Paragon 1st out of Castor 2d cows.

John Schmitt and J. G. Schmitt, Tipton, are consigning four bulls out of Lamp-lighter 2d cows by Beau Dare by Paragon 1st and Rose Lad.

Jos. F. Sedlacek, Blue Rapids, is consigning two bulls and one heifer by Maple Lad 34th by Bonnie Brae 8th. The heifer is bred to Beau Perfection 29th.

S. D. Seever, Smith Center, is consigning two bulls tracing to Lord Erling, Boatman, and Armour Cavalier.

J. B. Shields, Lost Springs, is consigning two bulls and one heifer by Debitola out of cows tracing to Beau Brummel, Java, and Anxiety Briton. The heifer is bred to Admiral Fairfax.

J. O. Southard, Comiskey, is consigning two bulls, one a son of imp. Farmer and out of a Perfection cow, two cows by Mapleton 2d out of Princess cows, and a third cow tracing in every line to Beau Brummel. The cows are bred to King Farmer, Nero Fairfax, and Monarch.

C. G. Steele, Barnes, is consigning four heifers by Boatman Jr. out of such cows as Donation 2d, Blanche 3d by Beau March On, Abird by Onward 60th, and Bellairs Queen by Columbus Folly.

These cattle have all been personally inspected by some member of the Animal Husbandry Department. They represent the best blood lines and will appear in the sale ring in the most desirable condition to insure their usefulness to their new owners. Bulls are offered suitable to head pure-bred herds, and females which would improve the majority of herds by their presence.

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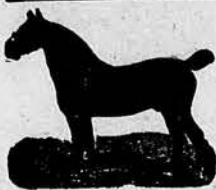
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Home-Bred Draft Stallions, your choice \$500 with the exception of two. Also mares for sale. **A. Latimer Wilson, Creston, Iowa**

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Poland China Boars and Gilts

Twenty-five early spring boars and twenty-five gilts. Sired by I Am King of Wonder and Watt's King.

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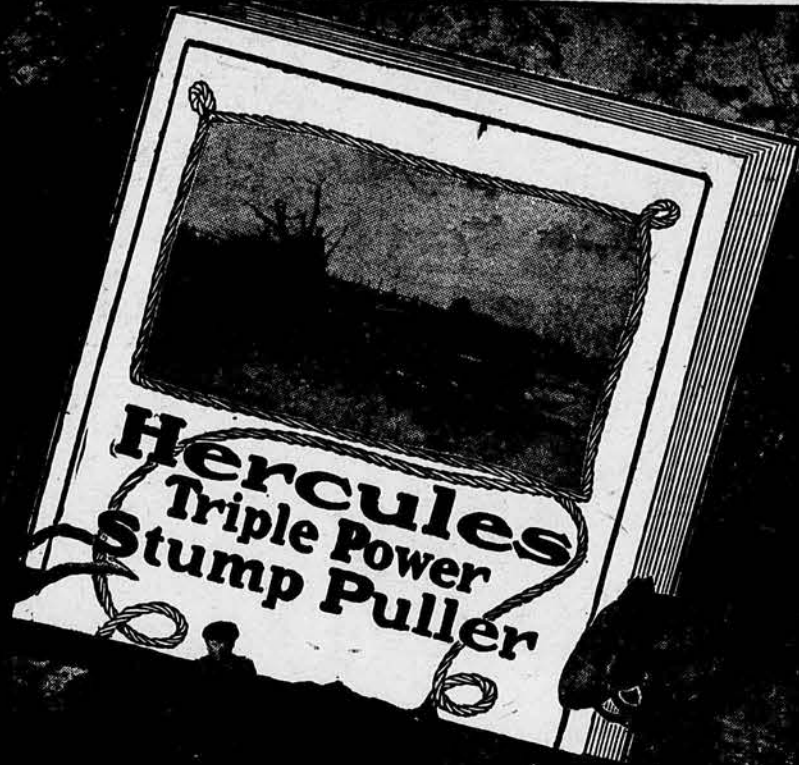
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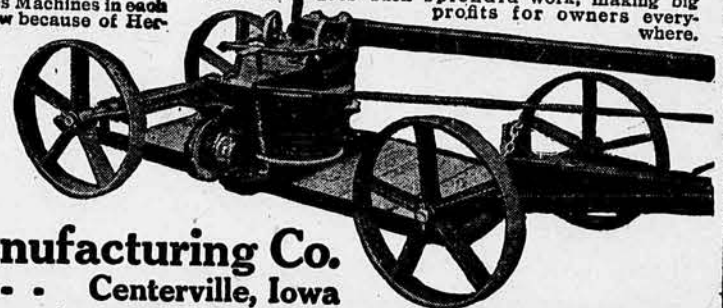
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