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ECONOMIC FARM POWER The Horse as a Source of Power in Farm Work

N THE basis of its influence on farm profits, the economic use of horse power is of first importance. Profits in farming are determined w expense involved in production quite

provide involved in production quite as much as by gross returns. Such rofits can be increased only by increasing gross returns without a corresponding increase in expense, or by decreasing expense without a corresponding decrease in gross returns. From the standpoint of reducing expense, horse labor costs constitute the item of greatest imporance. First, because in the operation of a farm the only items of expense which are commonly known as he operating costs. Such fixed charges is interest on the investment, rent and axes, cannot ordinarily be reduced by my great margin. On the other hand, he operating costs, such as man labor and horse labor, can be materially reneed through the proper organization and management of the farm business. Cost of Horse Labor

Cost of Horse Labor In ordinary corn belt farming, operting costs make up from 35 to 50 per ent of the total cost of production. Of hese operating costs, man and horse abor represent from 60 to 80 per cent; orse labor representing from 30 to 40 per cent of the total operating costs. It is of special importance to study the tost of horse labor because of the fact that this item can be influenced more than almost any other item of expense in the farm business. On the pre-war basis, horse labor costs varied on representative Illinois farms from 8 to 15 cents per hour. On the basis of present prices there is a range of from 12 to 25 cents per hour. Thus we find that on some farms the cost of horse labor is 100 per cent higher than on other farms working under the same conditions and marying on the same type of farming. Appreciate, naturally, that the horse hour is not a very definite unit. On the farms under consideration, however, per hour was in general about the same, regardless of whether the cost was 8 or 15 cents per hour.

Even these differences in the unit cost of horse labor mean relatively little natil we translate them into terms of cost per acre of our standard farm guires normally about 50 hours of horse labor per acre, a difference of 8 cents per hour would equal a difference of \$4 per acre, due to horse labor costs alone, Extreme differences on fairly representative farms range as high as nordeling corn, differences of \$5 to \$6 in the costs of horse labor, are somecase of oats which normally requires about twenty hours of horse labor per acre, differences due to this item would the case of wheat, which requires about the trans of horse labor per acre, differences due to this item would the case of wheat, which requires about the thirty-six hours of horse labor per acre, to \$4.20 per acre. Thus it is originate to the form \$2.88 Thus it is originate to the term

the differences would range to \$4.32 per acre. Thus it is evident that the differences in the cost of horse labor which occur somewhat commonly on Illinois farms, are responsible for very considerable differences in the costs of producing our

By W. F. HANDSCHIN

ordinary farm crops. These differences existed on representative farms, carrying on the same general type of farming. It is evident, therefore, that they should be very carefully considered by farmers generally throughout this section. In order to insure the largest profits, farmers must so organize and operate their farming business as to secure the lowest possible operating costs, as well as to aim at large returns. In as much as horse labor—above all other items of cost—shows the greatest variations, this item should be made the subject of very special attention.

ject of very special attention. Reducing Horse Labor Costs In the economic production of farm horse power, one of the chief factors to be considered is the securing of the lowest possible costs per unit of work done. Unit costs may be reduced mainly by

the following means: First—By so organizing the system of farming as to secure a large amount of productive horse use per year. If we assume that a horse works ten hours a day, and that there are 300 working days in the year, we should have 3,000 horse hours per year, providing the horse were able to work ten hours per day every working day. In actual practice, however, we find that the farm horse frequently does not work over 600 to 800 hours per year; that is, from sixty to eighty days of ten hours each. Some farms carrying on representative types of farming are able to secure from 1,200 to 1,400 hours of labor per horse per year, that is an increase of 40 to 50 per cent over the average secured on good farms.

One of the most fundamental factors in making possible a large use of horse labor is a good crop rotation, in which the crops selected are such as to distribute the horse labor as evenly as possible throughout the entire growing season. Naturally, in the corn belt, we shall continue to grow a considerable proportion of our crop area in corn as long as corn continues to be our most profitable crop. By growing from 30 to 40 per cent of oats or fall wheat, or preferably a combination of the two, we shall insure a much better distribution of horse labor. The introduction of clover or some of the other legume crops necessary to the maintenance of fertility and the proper feeding of our live stock will further improve the distribution of horse labor. Thus it is evident that the introduction of a good rotation containing clover or some other legume crop not only proves most advantageous from the standpoint of reducing horse labor costs, but fits in with the whole problem of maintaining fertility and providing the best feeds for general live stock production.

The production of two or more classes of live stock, particularly where winter feeding is carried on, helps to provide productive employment for horse labor and in this way assists both in keeping horses in better condition during the winter months, as well as reducing the unit cost of horse labor.

It is of interest to note that as we introduce better systems of farming, both from the standpoint of maintaining fertility as well as increasing profits, the horse becomes increasingly more efficient because he can be used more hours per year on productive work. Thus every improvement in the direction of more permanent and better farming is a step in the direction of a better and more economic use of horse labor.

Second—The unit cost of horse labor may also be reduced by paying closer attention to economical feeding, shelter and management of the horses carried on the farm. Important economics, particularly in feeding, may be effected. I



UNIT COST OF HORSE LABOR REDUCED BY USING BROOD MARES OF GOOD TYPE FOR FARM POWER

shall not take the time, however, to discuss the question, since it has been frequently discussed by others better qualified.

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Third—Unit costs of horse labor may also be reduced by using brood mares to supply a considerable part of the farm power. Under this plan the number of animals carried may well be somewhat larger than where no foals are raised. This increase in numbers is justified by the fact that this plan makes possible two sources of revenue rather than one. It goes without saying that if the raising of foals is to be a factor in reducing horse costs such foals must be of the best type, otherwise the enterprise may prove a liability rather than an asset. The question of the type of horse to be raised I shall discuss a little later. Fourth—In reducing unit costs of horse labor the farmer may also reduce

Fourth — In reducing unit costs of horse labor the farmer may also reduce his total carrying cost somewhat by shifting a part of his depreciation on horse equipment. Since approximately 90 per cent of all work horses in the country are on farms, it is evident that no large amount of the depreciation can be shifted to the city user. City horses, however, wear out in from four to five years on the average, while farm horses last from eight to ten years. It is evident, therefore, that approximately 20 per cent of the horse consumption of the country takes place in cities. In as much as other factors than age contribute most to the wearing out of the horse on the city street, it will be advisable for the farmer to sell off his surplus horses which the city requires before they depreciate on his own hands. In this way 15 to 20 per cent of the depreciation costs of all farm horses may be shifted to the city. From the standpoint of the country, a much larger portion of this depreciation can be transferred to the city or to the farming sections which buy horses rather than raise them. It is quite possible that from 30 to 40 per cent of the depreciation charge can be shifted to others by corn belt farmers, if they dispose of their horses before they wear out or die of old age. Corn belt farmers, as a general rule, should raise at least enough horses to replace those worn out. Fifth—In the reduction of the unit

enough horses to replace those worn out. Fifth—In the reduction of the unit costs of horse labor, one factor which is very frequently overlooked should be given primary consideration. I refer to the question of the type of horse to be used. As a matter of fact, only a small percentage of the horses actually in use even approximated what we might call standard requirements from the standpoint of weight, conformation, speed, quality and temperament. We are discussing very much these days the question of design in farm tractors and farm machinery in general. The same question is quite as important as applied to the farm horse. In the case of the borse, however, the problem of securing the right type in any large number is a difficult, long-time proposition, even though we have many excellent examples of the right design. In the case of the tractor, once a good design is perfected, there will be any number of concerns which can turn it out in large (Continued on Page Nine)



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Overstocking pastures early in the sea-son prevents the grass from strengthen-ing its root system.

MECHANICS ON THE FARM Items of Interest About Automobiles,

Engines, Tractors and Motorcycles

Hints to Tractor Farmers

HE agricultural engineering depart-HE agricultural engineering depart-ment of the Idaho Experiment Station recently completed an in-vestigation of the use of tractors on farms in that state. This was an offi-cial and unbiased investigation of the results being obtained with tractors in actual use on farms and the summary as published may be of interest to farm-ers. We are therefore quoting it helow

actual use on farms and the summary as published may be of interest to farm-ers. We are therefore quoting it below. I. The tractor, when selected to suit the farm and intelligently and carefully operated, has been reported by owners in Idaho a profitable investment. 2. The farmer must be able to make all minor repairs himself and to get re-pairs and expert help quickly for larger installations. 3. Dependability is probably the larg-est factor in the success of the tractor. 4. The three-plow size is favored by a majority of Idaho owners. 5. Proper care of lubrication will pro-long the life of the machine. 6. The best quality of oil is the cheap-est for the tractor. 7. The tractor motor is required to pull its rated load the greater portion of the time. The automobile motor is very rarely subjected to full load for a ten-hour day. Care for the tractor ac-cordingly. 8. The tractor that displaces half its

very rarely subjected to full load for a ten-hour day. Care for the tractor ac-cordingly. S. The tractor that displaces half its value in horses can easily be made to pay its way, according to reports of Idaho tractor owners. 9. The man who makes up his mind to care for his machine and to be as independent as possible of outside help is the satisfied owner. 10. Taking off one plow may enable the tractor to operate at its rated speed and may result in a greater accomplish-ment for the season. 11. Overloading brings trouble and cuts down the work accomplished dur-ing the season. The author of the bulletin in which the results of the investigation were published also offered a few. "Hints to Prospective owners," which we believe should have careful consideration by all prospective tractor farmers. They are as follows: "Know your tractor thoroughly before

prospective tractor farmers. They are as follows: "Know your tractor thoroughly before you begin operating it. Study your in-struction book and know the why and the how of each part of the machine. "Follow instructions of the manufac-turer. He has experimented with cheap oils and with heavy loads and in your instruction book you are getting the benefit of his experience. The experi-mental work is expensive. Let the manufacturer do it. "Do not overload the tractor, as it will shorten its working days and bring you expense.

you expense. "House the tractor between seasons. Proper shelter will be far cheaper in the long run."

Renovating the Used Car

The car that has seen one or two years' service is bound to be somewhat marred and shabby in appearance. While we may not be in a position to buy a new car this year, yet our pride in keeping up appearances demands a spick and snan appearance

new car this year, yet our pride in keeping up appearances demands a spick and span appearance. The expert auto and carriage painter can obtain the real "factory finish," but there are many of us who cannot spare the amount necessary for this work, so it's well to know how to do the work ourselves. It's not a difficult job when one knows how. When the surface is in good condition and it is desired merely to freshen up the colors, clean off all dust, dirt and grease with benzine or turpentine. Sand-paper lightly to cut the gloss and then apply one or two coats of a good auto finishing varnish. If it is desired to merely change the color in keeping with your own ideas, first thoroughly clean off all foreign matter with sandpaper as directed above.

first thoroughly clean off all foreign matter with sandpaper as directed above. Then apply two coats of auto enamed of the desired color. Where an excep-tionally high finish is desired, complete the finish with one coat of auto finish-ing varnish. When the surface is in bad condition and paint has chipped or cracked, re-

move all loose particles and prime such spots with lead and oil primer, composed of lead in oil thinned with turpentine and a little Japan drier. Allow to dry twelve hours. Deep cracks and dents should be filled with filler and surfacer, prifed on as you would use nutty. Al knifed on as you would use putty. Al-low to dry eight hours and sandpaper level. To thoroughly even up the sur-face, apply one or two brush coats of the filler and surfacer, eight hours apart, sandpapering each coat with fine sandpaper.

Next apply one or two coats of good Next apply one or two coats of good auto enamel of the desired color, using the color recommended by the dealer as the proper ground coat for the color of enamel selected. Sandpaper lightly be-

enamel selected. Sandpaper lightly be-tween coats. Then apply one or two coats of good auto enamel. This will complete the job. If, however, an exceptionally high finish is desired, complete the work by applying a final coat of auto finishing varnish varnish.

These various treatments, under pro-per conditions, will give your car a fac-tory newness. In appearance you will have a new car quickly and economically.

Overhauling Threshers

Uverhauling Threshers Enormous waste of grain and much loss of time and labor occurs in the midst of the threshing season because threshing machines have not been thor-oughly repaired and put in working or-der before the beginning of the working season. Defective parts are overlooked or neglected in the hope that they will last through the season. When they fail in the midst of the threshing sea-son, serious losses often result before repairs can be made. In or just before son, serious losses often result before repairs can be made. In or just before the threshing season new parts are diffi-cult to get promptly because of the rush of orders from many who have procras-tingted

of orders from many who have procras-tinated. Repairs should have been made last fall, but if not already done the sep-arator should be overhauled as soon as possible, necessary repairs and adjust-ments made, and needed parts ordered. This not only will prevent loss of time and money during the next working season but will lengthen the life of the machine.

season but will lengthen the life of the machine. A bulletin has just been issued by the U.S. Department of Agriculture, as No. 5 in the series of "Care and Repair of Farm Implements," giving detailed in-struction on how to "lay by" grain sep-arators. The discussion of every part of the machine is minute, constituting a handbook for the overheaviling and rampin of the machine is minute, constituting a handbook for the overhauling and repair of grain separators between seasons. It is a contribution from the Bureau of Public Roads and is issued as Farmers' Bulletin 1036. Taken in connection with Farmers' Bulletin 991, which treats of operating adjustments, it is believed to constitute a complete thresherman's guide. guide.

Ignition of Airplane Engine

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Ten farmers in one community near Goddard will build silos this summer. They are securing bids on this number, which is to be built of the same ma-terial. This is a good type of com-munity co-operation.

May 10, 1919



ECONOMICAL CATTLE FEEDING

ECONOMICAL CATTLE FEEDING War rations for steers in preparation for market are likely to become per-manent. The old-time cattle feeder who fed courd with a scoop shovel and re-garded roughage simply as filling is out of the running in these days of high-pried feeds. The present plan is to finish cattle with a minimum of corn. Experiment Stations in all the states where cattle feeding is followed have been testing the cheaper system of feed-ing, and the results are almost unani-mous in favor of making beef more largely from roughage.

ing, and the results are atmost dinam-mous in favor of making beef more largely from roughage. At the Pennsylvania Experiment Sta-tion the results of the past season's feeding, recently made public, have shown that the most profitable system was to use roughage to the fullest extent pos-sible in the form of silage balanced with high protein concentrates. Heavier grain feeding gives higher finish and the cat-tile are valued a little higher on the market, but when the experiment sta-tion results from the standpoint of profit year after year show the economy of the policy of making beef from rough-age, we can hardly hold longer to the old ideas. The silo must become an in-dispensable part of the equipment on the beef-making farm. At Ames last week, where a big cattle feeders' meeting was held to study the results of the year's converted a bunch of staars fed on beer-making farm. At Ames last week, where a big cattle feeders' meeting was held to study the results of the year's experiments, a bunch of steers fed on war ration of silage, alfalfa hay and three pounds of linseed oilmeal dairy per steer, but no other grain, made a profit on the five steers in the lot of \$23.11, excluding the profit from the hogs and \$27.32 with the hogs figured in. These steers were valued by Chi-cago buyers at \$15.30 a hundred. The highest valuation placed on any lot in the test—the lot fed the standard ra-tion of shelled corn, oilmeal, silage and alfalfa—was \$16.50 a hundred. We can look forward to similar results at the Manhattan experiment station, where the cattlemen will meet next Tuesday, May 13, to inspect the experimental feeding work of the year and receive the details of the tests.

details of the tests. HIGH PRICES WORK BOTH WAYS Most urgent demands are being made for a reduction in prices of foodstuffs. Recently an appeal was made to the President by women's organizations for a five-cent loaf of bread, the claim being made that it was in the interest of a considerable majority of the housewives of the whole country. It was asked that the price of wheat be forced down to \$1.25 a bushel and the billion dollar ap-propriation be used by the Grain Cor-poration to make good the guarantee to the producer. The bigh price of foods of all hinds is

the producer. The high price of foods of all kinds is a serious matter to people generally, but consumers should not overlook the fact that a number of factors are involved in the high price of the loaf of bread or any other food product. The high price of wheat is only one and the low-eting of the wheat price as suggested would not make possible the five-cent loaf unless other factors of cost were lowered in proportion. It cannot be assumed that because farmers are re-eting high prices for their products that they are the ones responsible for high food costs. High prices work both ways. While farmers are getting higher prices for the products they sell than they received in 1914 or at the beginning of the war, they are also paying higher prices for the things they buy, and it is of special concern to them to know just how they have fared in the general price movement of things sold in relation to that of things bought. This comparison-tion of the Bureau of Crop Estimates, United States Department of Agricul-ites in the interval of a per cent The high price of foods of all kinds is

ture. In 1915 farmers received 3 per cent less than in 1914 for crops and live stock in their composite price, but they paid 9 per cent more in the composite price of the many articles that they bought. The list of articles bought used for this

purpose contains eighty-five items of purpose contains eighty-five items of textiles and garments, lumber, wood products, agricultural implements and machinery, metal products, coal, petro-leum products, foods, fertilizers, house-hold furnishings, and other farm and family supplies. Relative loss in the second year of the war also was suf-fered by farmers. What they sold in crops and live stock advanced in joint price, while what they bought advanced 21 per cent. In the next year, 1917, the relative

price, while what they bought advanced 21 per cent. In the next year, 1917, the relative character of these price movements was reversed, and the farmer faced pros-perity instead of disaster, since the price that he received for crops and live stock gained 74 per cent upon 1914, while he paid 49 per cent more in the composite price of his purchases. War time is a period of rapid changes in prices and of sudden and often of pain-ful maladjustments. Although the farmer lost ground in 1915 and 1916 in comparison with 1914, and regained the lost ground in 1917 and gained much more, he lost his relative lead in 1918 and found himself where he started in 1914 in the comparison of price of crops and live stock with that of things bought. The advance of price received in 1918 above 1914 was 97 per cent, and that of price paid was 96 per cent, or substantially the same.

substantially the same. WHEN TO PLANT KAFIR AND MILO The sorghums will not germinate in cold soil. For that reason the seeding of kafir, milo and others of these crops must be delayed until the ground warms up. The exact date for planting these crops will be governed by the season and soil conditions. No positive date can be fixed upon, for even on the same farm the proper date may vary a week or ten days in different fields. Probably as safe a rule as any is to delay the planting of kafir or milo in the various sections until the corn plant-ing is well under way. The cultivation of the land in advance of seeding aids in warming the soil and the crops can be planted earlier on land that has been given considerable of this early prepar-ation. Freedom from weeds is also a factor.

factor.

given considerable of this early prepar-ation. Freedom from weeds is also a factor. It is of course important to get these crops started as early in the season as possible in order that they may mature before frost. In this connection it is also important to have improved strains such as have been developed by our ex-periment station and farmers over the state who have paid some attention to seed selection. The pink kafir requires from 100 to 105 days to come to ma-turity. The dwarf blackhulled kafir re-quires about the same period. The white milo will mature in from ninety to ninety-five days, the standard yellow milo in from ninety to a hundred days, feterita—one of the earliest of the grain sorghums—will mature in from eighty-five to ninety-five days. The growing season, figuring from the average latest killing frost in the spring to the aver-age first killing frost in the fall, ranges from 140 days in the extreme northwest corner of the state to 190 days in the southeast corner. The ideal stand of kafir or milo in sections where it is grown for grain is at the rate of one plant to every ten or twelve inches in the row, and thinner stands will give better results in dry seasons. At this rate of seeding two or three pounds of good seed is enough to plant an acre. Where planted for grain and forage combined, which is the more general practice, the rate of seed-ing is considerably thicker. **TIME TO KILL WEEDS** The time to kill weeds is when they

TIME TO KILL WEEDS The time to kill weeds is when they are "babies"—just in the germination stage or only barely out of the ground. This is always a good policy. The pres-ent season has been wet over most of Kansas, and weeds will probably give more than the usual amount of trouble and particularly in the West where weeds are perhaps not as hard to con-

trol as in the more humid section. Mois-ture is so abundant this year that weeds will be pushed forward rapidly and their control will become difficult unless they are destroyed early to the fullest extent possible. A practice followed regularly at the Hays Experiment Station is to disk or harrow all land in preparation for the sorghums or corn just in ad-vance of planting. This kills all the weeds in the germinating stage and gives the crop a chance to get started before a new crop can germinate. This extra work will pay for itself in a weedy year, for weeds can be killed much more rapidly and cheaply before the crop is planted than afterwards. Early cultivation of crops is always

rapidly and cheaply before the crop is planted than afterwards. Early cultivation of crops is always important. Every farmer knows that if he can keep his intertilled crops clean of weeds during May and June there is far less danger of the crop being choked by heavy weed growth later. This is not always easy to do and particularly where a considerable acreage of wheat must be handled, for the wheat harvest must be taken care of, even though the cultivation be neglected. This makes it doubly important to get at the weeds early and kill them as rapidly as possi-ble.¹ Nothing will accomplish more in cleaning land than the use of the har-row and weeder while the weeds are in the germinating stage. The harrow is one of the most useful implements on the farm at this stage of crop cultiva-tion. If you wish to destroy weeds at least expense, use the harrow and weeder freely while the crop is small.

SUDAN GRASS FOR PASTURE

SUDAN GRASS FOR PASTURE Sudan grass is giving most promising results as a supplemental pasture crop. No similar crop grown in Kansas is giv-ing as large pasture returns in so short a time as Sudan grass. The seed of Sudan grass germinates readily, it makes quick growth, produces well with lim-ited moisture, stands heavy grazing and its productive period extends from spring to the first killing frost of the fall. Here are some important features of the crop as enumerated by Ralph Kenney of the agricultural college extension ser-vice: Sudan grass if given a fair seed bed rarely fails to make a stand in Cen-tral or Eastern Kansas. Seeding at the rate of fifteen to twenty-five pounds of seed to the acre is satisfactory, the seed to the acre is satisfactory, the heavier rate tending to form a sod more quickly and smother the weeds. A wheat drill set to sow two peeks of flax

quickly and smother the weeds. A wheat drill set to sow two pecks of flax to the acre will usually plant Sudan seed at about the proper rate. It is some-times broadcasted and disked lightly. In Western Kansas an equally good yield is usually produced by seeding it in rows and cultivating. Stock should not be turned on Sudan grass pasture until it is about a foot high, or from twenty to thirty days after planting. Mr. Kenney states that it will support an average of a thousand pounds live weight to the acre until killed by frost, and that this rate has even been doubled on fertile soils for thirty days or more at a time during favorable growing weather. If the crop is growing more rapidly than the stock will keep it down, the extra growth can be mowed and cured as hay. Men who have tried Sudan grass as pasture on small fields during the past three years report that as an emer-gency supplement to native grass pas-ture it cannot be excelled.

POSSIBLE STORAGE CONGESTION With the possibility of a billion bushel wheat crop in this country, the largest ever produced, it is a safe guess to look forward to storage congestion following harvest. Last year, with a 900,000,000 bushel crop, the rushing of grain to market caused a congestion all the way from the farms to the ter-minal markets. Wheat "backed up" after the terminal elevators were full and congested the railroads and the country elevators. We are probably in no better condition to handle the crop this year than last. The remedy last

year was to place embargos on further shipments until terminals could be cleared. The Bureau of Markets calls attention to a situation which prevailed in North Dakota the winter of 1915 and 1916 following a production of 150,000,-000 bushels in that state. Owing to the congestion of elevators at the country stations and the inability of railroads to carry the wheat, hundreds of thou-sands of bushels of the grain were piled up in the open. About the only precaution the pro-ducer can make is to get in shape to hold his wheat for a time if it becomes necessary to do so. In sections where wheat is bound, stacking is a feature of crop handling that furnishes a partial solution to the grain congestion prob-lem. Properly stacked wheat will be protected against the weather and can be threshed later and it is generally rec-ognized that wheat which sweats in the stack is of better quality than wheat threshed direct from the shock. It would seem that there should be more than the usual effort made to stack wheat this year as soon as it is dry enough after harvest. Provision can also be made to store grain in buildings already constructed or portable bins such as are on the market. The United States De-partment of Agriculture is now issuing specifications for a portable farm granon the market. The Onicel States be-partment of Agriculture is now issuing specifications for a portable farm gran-ary in the form of a circular entitled Market Document No. 11.

HANDLING THE WHEAT CROP The 1919 wheat crop is to be handled by Julius H. Barnes, who headed the United States Grain Corporation during the war. The statement made by Mr. Barnes recently, indicates that, in his judgment wheat should be traded in by the government at the guaranteed price only as it was necessary to keep up the

Barnes recently indicates that in his judgment wheat should be traded in by the government at the guaranteed price only as it was necessary to keep up the market price to that level. His opinion seems to be that the regular open market price on the basis of supply and demand may remain above the government fixed price. It is evidently his intention to use every effort possible to protect producers and consumers and at the same time spare the United States treasury. He lays down three fundamental principles, as follows: Tirst, the guarantee is clearly intended for the producer, and the license power may be used to control trade practices so as to assure the proper reflection of the guaranteed price reaching all producers. Third, the national treasury should be protected by the realization of the world price as far as it can be determined, and any governmental policy of artificial subsidizing is unsound. Mr. Barnes' statement leaves the matter of exact methods to be followed in handling the crop still open. He calls attention to the cleanup of last year's crop and the fact that this country must still continue to supply European needs, as proof that the price will remain high. Some definite policy will have to be adopted soon, for it is no small task to manage the details of marketing such a crop as will be produced in the United States this year under the requirements of the congressional act for carrying out the government's guarantee.

There are now more than 4,000 co-operative creameries in Siberia, and it must be recognized as one of the lead-ing butter manufacturing countries of the world.

Ma Ma Ma

Put quarters which might be spent foolishly into War Savings Stamps; back up yourself with cash and back up your government in cleaning up the war.

Ma Ma Ma

It makes no difference how big your feet are if they are pointed in the right direction and on the move.

KANSAS FARMER May 10, 199 **DEFECTIVE FLUES CAUSE FIRES** Chimney Can Be Made Safe at Cost of \$6.00 to \$8.00

IRE losses in Kansas for the year 1918 amounted to \$4,701,653, and almost 40 per cent of this is rural loss. It is also significant that rural losses amount to 60.39 per cent of

the value of the property involved, while the losses in town for the year are but 17.69 per cent of the value of the property. Of the 3,235 fires reported by L. T.

Hussey, state fire marshal, in his an-nual report for 1918, almost half are dwelling house fires. Considerable over dwelling house fires. Considerable over 10 per cent of the fires for the year are directly traceable to faulty flues, and practically all of the flue fires are dwell-ing house fires. Sparks are given as the cause of over 400 fires, and these in almost every case could be traced to defective flues in which soot and dirt have accumulated. When these burn out, as they frequently do, showers of sparks fall on the roof and start a blaze.

A summary of the various causes of fires as given by fire marshals of the different states show that from 10 to different states snow that from 10 to 26 per cent of all fires are attributed to flues, and during the winter season the percentage has reached as high as 50. This is a fire risk which can be almost entirely eliminated by proper care in construction and at an expense care in construction and at an expense so slight as to be negligible.

so slight as to be negligible. It seems rather remarkable that so little attention should be given to this matter of properly constructing flues and particularly on the farms and in the small towns. When a fire gets started in the country or small town it almost invariably results in the total loss of the building and its contents. There are no facilities to fight fire and the owners can only stand by and see their property go up in smoke. and their property go up in smoke, and sometimes it is not only a matter of property but lives that are at stake. The city resident not only has the procity resident not only has the proaddition local laws compelling the adoption of protective measures. There are some fires in the country, of course, that cannot be prevented, such as the occasional blaze due to lightning, but there is little excuse for the faultily constructed, sooty, dirt catching flue. It is from this that the principal danger comes, and this risk could be absolutely eliminated by the simple precaution of building flues and chimneys in such a manner that no neighboring woodwork could become overheated nor soot, birds' nests or other rubbish accumulate in-side the flue.

During the war there was an almost entire cessation of residence construc-tion. The statement was recently made that we are two million residences short in the United States at the present time. With the establishment of peace, the building of residences will undoubtedly receive a considerable stimulus. Building will be speeded up to the limit and carelessness is certain to creep in unless those who are building take special pains to see that proper precautions are taken. Guarding against fire haz-ards in chimney construction is an im-

portant point in residence building. In the ordinary brick and mortar flue the time is almost sure to come when it will be a source of danger, since the constant heat from the fire causes the mortar to crumble and fall out, leaving holes in the chimney. These are usually in out of the way places and too often wood construction comes in direct contact with the chimney and is a constant source of fire danger. Chimneys in wooden buildings should be built straight up from the ground and never placed on a bracket, as is so often the practice. They should extend two feet or more above the peak when the chimney is in the center of the roof and three feet or more above the surface on flat or slanting roofs. In order to have proper draft the medium sized opening for a flue should not be less than sixty-four square inches. At the base of each flue a clean-out door should be provided if possible. Cement mortar and good quality brick should be used for chimney building. Flue holes should always be covered in a secure manner with metal flue stops. The joists used to support floors

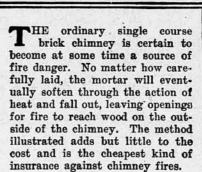
The joists used to support floors should never have their ends supported in the brick of a chimney. This is a very common practice. The chimney is almost sure to settle, leaving at these points cracks through which fire may creep to the joists. The time will come when the various states will have laws compelling these precautions in building. Ohio now has such a statute and similar measures are being considered and adopted in other

being considered and adopted in other states. The Ohio law requires that all flues and chimneys must be lined with fire clay flue lining set inside the bricks of the chimney so as to make a smooth, tight conduit for the escape of the

smoke without affording lodging place for soot or rubbish. If all the flues in farmhouses were constructed in this way the number of fires in rural districts would in all probability be reduced by at least half. The fire-clay flue lining is not expensive and can be purchased from practically every dealer in build-ing materials in the country. In view of its small cost, it would hardly seem necessary to legislate to compel builders to use such a simple measure as a

the Union to voluntarily observe a fire prevention day each year, the day ap-pointed each spring being proclaimed by the governor. It is to be hoped that the people of this progressive state will not wait until they are compelled by law to adopt effective means of making flues absolutely safe. While this pre-cautionary building measure may in-volve a little extra initial expense, this would soon be overcome by the saving which would later be effected in reduced insurance rates. Insurance rates are al-ways based on the risks involved. The greater the risk of destructive fires, the higher the rate must necessarily be. With the general use of flue linings such as are by law now required in Ohio, one of the greatest risks of fire in both town and country would be eliminated. This would mean fewer fires and consequently a less heavy drain upon the insurance companies in payment of claims. A very small reduction in in-surance rates would soon return to the builder the small extra expense of prop-erly lining flues, and flue linings can be considered as insurance in themselves, and they have to be paid for but once

in a lifetime. It would seem that the householder in the country or small town could not possibly overlook this matter of making flues safe. The figures quoted from our fire marshal's report show that even though the rural builder is no more careless in his chimney construction than the



city builder, he most assuredly suffer more when a fire visits him. In the country, where the women and childre are alone in the house the greater part of the day, there is little hope of such are alone in the house the greater part of the day, there is little hope of suc-cessful fire fighting. The fire menass is ever present in the minds of every man and woman both day and night. The exclamation, "I smell smoke! what burning?" will quickly rouse to alertness the most drowsy group of people. The tragic possibilities suggested by this ery are instantly presented to those whe realize how helpless they are when fin occurs. occurs.

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Where the dwelling house has the ordinary unlined brick chimney a close inspection should be given at frequent intervals to insure safety. The point of greatest danger is where the chimney passes through the roof and if the morpasses through the roof and if the mot-tar has fallen out so as to leave open-ings the only safe plan is to tear the chimney down through the roof and re-build it. It is also a good plan to clean the chimney occasionally, thus removing the soot. This can be done with a wire or rope to which is fastened any object suitable for the purpose. A pair of old automobile tire chain has been used very satisfactorily.

very satisfactorily. It is to be hoped that the campaign for fire prevention which is being wagd by our state fire marshal will effectually stimulate those who are building to take the necessary precautions to make their buildings safe, and no one thing can be done which will add more to the safety from fire than the careful lining of a flues with a specially prepared fire lining.

What Ripened the Wheat?

While visiting with Nelson Drenze, who owns a farm near Mound Valley, is told me that his wheat ripened last year several days before the same mriety of wheat ripened on the neighbor-ing farms. I asked him if the land was alike. He replied, "When the land was alike. He replied, "When the land was who settled, it-was alike. But, the man who settled on my farm kcpt a bed of dairy cows all the time he lived that. And he put the manure on the land. Since I cot the farm I have both bed And he put the manure on the lad. Since I got the farm I have kept bed cattle all the time and have fed some cattle for market nearly every year. The manure has been put on the fields. I also used some fertilizer containing phosphorus on the field of wheat. The wheat on my form and the real of the source of t wheat on my farm gave a better yield than the neighbors' because of the phor phorus put on. The neighboring fields have been farmed fifty years, and m fertilizers or manure have been put of them.—J. E. PAYNE, Parsons, Kansas.

Smut-free kafir seed will produce i smut-free crop regardless of weather conditions.

Function of Lime in Soil

O MUCH is being said about the value of lime that many have formed an erroneous idea as to its) function and look upon it as a fertilizer. While lime in some form is indispensable, its action is as an indirect rather than a direct fertilizer. It has two principal effects, namely, the cor-rection of soil acidity and the control of bacterial activity. Its most important effect is in the promotion of the growth of the various legume crops. Where legumes cannot be successfully grown the soil cannot be built up in fertility and it is in this indirect way that lime brings about the enrichment of the soil brings about the enrichment of the soil. A mere application of lime in itself cannot materially enrich the soil. The action of lime upon the organic

material of the soil is destructive in character. It increases the availability of plant food in the soil and especially the nitrogen and as a result tends to more rapid soil exhaustion. Lime without the addition of manures and with-out the growing of leguminous crops, while it may produce larger immediate crops, will soon bring about a shortage of available plant food. The promotion of the growth of legumes, then, is the one effect which above all others justi-

fies the use of lime. To be successfully grown the legumes must have soil conditions favorable to their respective forms of associated bacterial life. Lime furnishes the favorable bacterial environment and in the luxuriant growing of legumes there are always possibilities in soil enrichment.

Lime acts mechanically on certain types of soil in a beneficial way. Its application to heavy clay soils makes them mellow and friable. Sticky, heavy loams are made fine, light and mellow in character. This improvement of the physical character of such soils is of considerable importance since soils of this nature, no matter how fertile, can not be made to produce at their best because of this lack of mellowness and lightness.

Where ordinary ground limestone is used no immediate results can be ex-pected except in the case of leguminous crops. All nitrogenous organic material must go through a process of bacterial decomposition before its plant food becomes available. In order to have these processes go forward there must be at all times a sufficient amount of lime

in the soil to neutralize all acids as they are formed. Unless these acids are neutralized the bacterial action will cease and the organic material in the soil will not be converted into available form. Fermentations of a destructive nature are liable to take place and as a result sour acid soil develops in which very few crops will grow to the best advantage.

The user of lime, then, should recognize that its function is mainly to hasten the decomposition of organic materials in the soil and thus render available the plant food they contain. The system of cropping should provide for the supply-ing of an abundance of such organic material. The legume crop must be

grown and barnyard manure applied. The determination of the presence of acid in soil can be easily carried out through the use of the litmus paper test. One way of applying this test is to take a few ounces of soil and add water to it until it is thin mud. Now take a piece of the blue litmus paper, such as can be obtained at any drug store, and place one end of the piece in this mixture. If the soil is acid the paper will be turned reddish or pink.

A test for the presence of lime may be made by taking a ball of moist earth and making a depression in one side into which is poured a little muriate acid. If lime exists in any quantity little bubbles will begin to appear as little bubbles will begin to appear as soon as the acid touches the soil.

Paint Is Good Investment

Here and there in the country one see farms where all the buildings are kep freshly painted. What a difference it makes! How fresh and new and cheer ful the farm looks. These are the places strangers atom to hole of and many strangers stop to look times \$20 worth of paint adds \$500 to

the value of the farm. In the United States there are thou-In the United States there are thou-sands of paint manufacturers. and yet not over six or eight are known to farm folks. These are the ones who are proud of their paint, who know they make a good paint and who want the people, everywhere, to know about it.

Give your boy a pig or a calf. Make him a partner in the business, and the chances are that he will not want to leave the form leave the farm.

May 10, 1919

The Grange and National Legislation

HE National Grange of the Patrons of Husbandry is using its Wash-ington office to inaugurate a prac-tical, if not a radical, legislative program. It is asking Congress that the farmers of this country have a hear-

the farmers of this country have a hear-ing, and a place on important commis-sions and in administration. It is ask-ing Congress for legislation which will be of benefit to all the farmers of the country. Thomas C. Atkeson, Master of the

West Virginia State Grange, is in charge of the Washington office. He has prepared and is sending out a booklet for the information of members of Congress as to the Grange position on matters of legislation.

The Grange representatives are not The Grange representatives are not "lobbyists" in the usually accepted meaning of that term, and there are no nuclean dollars paying the expenses of the Grange representatives. They are in Washington in a spirit of helpful co-operation in the effort to place before Congress and the various departments the true formers' viewmoint of the food Congress and the various departments the true farmers' viewpoint of the food production problems which are now re-ceiving so much attention and upon which the welfare of all our people so largely depends.

Under the head, What the Grange Stands For," this booklet contains the following statement of the Grange national legislative program. A prosperous and progressive agricul-

ture with an independent, self-respecting citizenship in the open country is the surest guarantee of an enduring national life. Farming must be made as profitable as any other occupation in-volving the same amount of investment, business ability and hard work, or our democracy must fail and our people go hungry.

Economy-We insist that the most rigid economy be exercised in govern-ment expenditures. Boards and com-missions created to handle war emer-gency work, and others masquerading as such but which are non-essential, must be discontinued without delay. Orderly Government—The Grange be-

lieves in orderly government and de-nounces the methods and tactics of any agency or organization that uses violence to serve its ends.

Price Fixing-The Grange is opposed to all price fixing, but if prices are to be fixed on farm products or stabilized by artificial methods, then the price of all the items which enter into the cost of production of farm products should

also he fixed. Education—We insist that our state and national legislators shall provide a system of education that will turn the farm youth toward the farm and not

farm youth toward the farm and not away from it. Marketing — The present system of distribution and marketing is clumsy, costly, incflicient and wasteful. The cost of production plus a fair profit should establish the price of farm prod-ucts. Unnecessary middlemen must be eliminated. Direct co-operative buying and selling should be encouraged. Food and feed must be sold without substitu-tion or adulteration. tion or adulteration.

Collective Bargaining-The Grange demands legislation wherever necessary in state or nation to establish beyond ques-tion the right of producers of farm products to bargain collectively for their sale

Packers' Monopoly-The Grange commends the exposure of the packing mon-opoly made by the Federal Trade Commission, and expresses the hope that this valuable information will assist in the solution of the important problems of food distribution. The Grange insists food distribution. that the strictest control of the packing plants be continued by the Trade Com-mission or otherwise by the trade Commission or otherwise, and that the gov-ernment exercise such control as may against injustice.

gressive road construction policy by nathe Grange stands for an agtional, state and local governments. Highways connecting the farms with market centers for the transportation of farm proposition and form products

farm necessities and farm products should be given first consideration. Better Farm Credit — Every possible means should be provided to assist men of character and training to secure farm homes and to establish a system of perhomes and to establish a system of personal credit for the purpose of increas-ing farm ownership. To this end we favor such ownership. favor such amendment of the land bank law as will extend its benefits more

Land Tenancy - Land tenancy is in-

creasing. Farm ownership is concen-trating in the hands of wealthy landtrating in the hands of wealthy land-holders, and abandoned farms are be-coming too common. Legislation should be devised to encourage farm home own-ing and to discourage land speculation and tenancy. Farms for Soldiers — We oppose the proposed plan of reclaiming swamp and arid lands for returning soldiers as un-sound, impractical and detrimental to the interests of the nation and agricul-

sound, impractical and detrimental to the interests of the nation and agricul-ture. There are enough of untenanted farms near market centers to supply all soldiers who may wish farm land. The government should meet this need in this way so that they may become self-

KANSAS FARMER

supporting and useful without waste

and delay. Fertilizer Supply-The Grange favors the enactment of laws to secure to farmers of this country a supply of es-sential fertilizers, including lime, at the lowest possible cost delivered to the farm.

farm. Daylight Saving—The Grange opposes changes in standard time which injuri-ously affect conditions of farm work, and demands the repeal of the so-called

and demands the repeat of the so-called Daylight-Saving law. Oleomargarine—The Grange demands the enactment of laws that will effec-tively prohibit the sale of oleomargarine as a substitute for butter. Public Office—Every place of state and national authority which concerns agriculture should be filled by a person

who is qualified by agricultural training and experience and so identified by voca-tion, ideas and effort that farmers will recognize him as one of themselves. It is essential that such public official be so identified in the public official be and workers will rally and work with confidence in his leadership. Matural Resources — The Grange op-poses any law or regulation that will take from the government the control of the natural resources still in its posses sion, and demands such control of the natural resources which have already passed into the hands of private owners

passed into the hands of private owners as will protect the public against extor-tion and exploitation. Public Utilities — The Grange stands (Continued on Page Eight)



GENERAL FARMAND STOCK ITEMS Something of Interest for All-Overflow from Other Departments

HE ordinary washing of dairy utensils does not destroy germs. The organisms causing milk to spoil and at times germs of dangerous diseases are lurking in milk cans, buckets and other utensils used in handling milk and other dairy products.

gerous diseases are lurking in milk cans, buckets and other utensils used in handling milk and other dairy products. Sterilization of some sort is necessary in addition to the usual washing, and the application of live steam is the simplest method to use. On the small farm, however, steam is seldom available. Most outfits on the market consist of small boilers and this equipment is too expensive for the farm where only a few cows are milked. Of course by using enough scalding water, utensils can be sterilized, but this involves the expenditure of considerable labor and time and too often it is neglected.

A very simple and inexpensive homemade steam sterilizer has been worked out by dairy specialists in the Department of Agriculture. It can be provided at a cost of not to exceed \$10 or \$15, and in spite of this low cost the outfit is thoroughly efficient, as has been demonstrated experimentally and on hundreds of farms where it has been used. We described this sterilizer in some detail in KANSAS FARMER a couple of years ago. The cut on this page shows the different parts, which can be made in any tinshop. The saving effected in one season will be enough to pay the cost of the sterilizer.

pay the cost of the sterilizer. This simple sterilizing outfit can be used on any stove or on a two-hole oil or gasoline stove and in a very few minutes will generate steam enough to kill all the bacteria in the cans, milk pails, strainer cloths and separator parts. The apparatus consists of a farge roasting pan to which a specially insulated cover is fitted having a small steam pipe projecting through it. The various utensils can be inverted over the steam pipe and in a very few minutes they, will be sufficiently scalded to be safe.

Growing Broom Corn

A reader in Clark County asks for methods of planting and cultivating broom corn, time to plant, rate of seeding, etc. Broom corn is planted and cared for in about the same manner as corn or, the sorghums. There are two types, the standard and the dwarf. The dwarf variety is that grown almost exclusively in the southwestern part of Kansas. It produces the best brush on light sandy soils. It can be considered as a drouth-resistant crop, since it will mature brush on a very limited rainfall if given proper care and cultivation. The standard type broom corn is grown in regions adapted to corn production. A great deal of broom corn of the standard type is produced in Illinois. Kansas produced over 9,000 tons of brush in 1918 and about the same amount the year before.

To grow good broom corn it is very important to have good seed. Too little attention has been given to the selection and improvement of this crop. In every field there will be found many poor heads, having long central stems or coarse twisted fibers. Seed which has been threshed from some old dry brush just as it came from the field cannot be expected to produce a crop of uniformly high quality. The value of the brush produced in Kansas could probably be doubled in four or five years by paying a reasonable amount of attention to seed selection. This improvement would almost necessitate having seed patches planted from selected heads. A few broom corn growers are doing this work on their own farms.

The dwarf type of broom corn is usually planted in three-foot rows with the plants from two to four inches apart in the row. A bushel of good seed can be made to plant twenty-five acres. This is a rather thin planting, but if uniform will result in a good quality of brush. Like the sorghums, the time for planting is a week or two later than the usual corn planting time. The young plants grow very slowly at first. The harrow and weeder are good tools to use in the early cultivation. Later cultivators with small shovels can be used and such other machinery as is used in cultivating cane or kafir planted in rows. The crop matures in about ninety days, the proper time for harvesting the

brush being when it is in about the blooming stage.

blooming stage. Considerable hand labor is involved in handling a broom corn crop. The brush of the dwarf type is harvested by pulling, the heads being piled on the ground to dry. Later the seed is removed by a special machine, or in some cases where only a small amount is grown, by hand. The curing has considerable to do with the market value of the crop. The ideal brush is of bright green color free from discoloration due to weathering. Considerable care is necessary in handling the crop in order to produce this ideal brush. From 400 to 500 pounds to the acre is a fair yield of dwarf brush and the market price has varied in recent years all the way from \$50 a ton up to \$200.

No License to Buy Powder

During the war it was impossible to buy powder or dynamite for agricultural purposes without obtaining a proper license which was issued through an officer in each county appointed for that purpose. One of the recent acts of the Bureau of Mines was to revoke this provision requiring a license to use explosives for farming purposes. Many did not attempt to buy explosives during the war because of the license requirement. Farm powder may now be bought with no more trouble than before the war. Any dealer may supply it without requiring anything more than a simple request on the part of the purchaser.

Tall Fescue

G. M., Johnson County, asks about the

grass known as tall fescue. This is an upright perennial grasshaving some advantages over the much more commonly grown meadow fescue or English bluegrass, as it is quite often called. Tests made by the Department of Agriculture indicate that this tall fescue will produce more feed than the meadow fescue and in general is more hardy and robust. It seems coarser, but appears equally palatable and nutritious. The principal objection to it is its seeding habit. The seed is scarce and expensive and is frequently poor in quality, and this perhaps explains why it is difficult to get a good stand from sowing tall fescue

ing tall fescue. Tall fescue has the habit of ripening its seed very unevenly, and it sends up a very few seed-producing stems. In Northeastern Kansas where meadow fescue will ordinarily yield twelve to eighteen bushels of seed to the acre, the tall fescue will produce only three to seven bushels to the acre. Tests made by the experiment station of Washington indicate that seed can be much more

successfully grown in the eastern part of that state than in Eastern Kansas. In Eastern Kansas and in Missouri the best results seem to come from

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the best. results seem to come from seeding this grass in the fall, sowing it on ground which had been in oats or wheat and plowed in July or early August. It is also sown successfully in wheat or rye in the fall. Under favorable conditions a stand is sometimes secured with only fifteen pounds of seed to the acre, but it would be better to sow twenty to twenty-five pounds.

Sudan Grass in Kansas

We have been asked if the use of Sudan grass is increasing in Kansas. We have no positive information on this subject. For a few years there seemed to be an unusual demand for Sudan grass seed and many extremely favorable reports were made on the crop. It has seemed to fill a real need on the farms of the state. We would welcome letters from our readers telling of the status of this new forage crop. As a hay crop it is by many considered superior to others of the sorghums, which were often sowed or planted thickly in order to produce a fine quality of forage. It has another feature to commend it and that is its value for pasture. It does not seem to be anywhere near as dangerous as cane or kafir. In fact there are very few instances on record where animals have been poisoned by grazing Sudan grass.

There is hardly a farm in Kansas where some annual pasture crop cannot be used to advantage, and Sudan is well adapted to this purpose. In Eastern Kansas it would seem that this crop should entirely supplant millet as a catch crop. In western sections its ability to produce a good yield on a minimum of moisture makes it a superior forage to use to supplement failing pastures.

If you have any observations to make about Sudan grass as a Kansas crop, write us about it. The information will be valuable to many of our readers.

Top Dressing Meadows

KANSAS FARMER has many times called attention to the necessity of feeding the grass. Too often little thought is given to supplying fertility to either pastures or meadows. J. E. Payne, of Parsons, tells of some observations he made on the farm of J. A. Hush, who came to Crawford County from Iowa about twenty years ago. Mr. Hush has grown timothy hay on his farm most of the time he has lived in Kansas. "I asked him how much hay he got to the acre," said Mr. Payne. "He replied that when a field was new the yield was about a ton to the acre, but it grad-

ually decreased until in about four yean he would be getting only about half a ton to the acre. He went on to say, however, that whenever he top-dressed an old meadow with well rotted manure, the yield was practically doubled. Usually these meadows are plowed up as soon as the yield gets low. By topdressing once in two years a meadow could probably be kept up to maximum production."

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Mr. Payne tells of the many meadows of native grass he has noticed which are producing very light yields of hay and he is wondering if these could not be improved in the same way Mr. Hush has improved and maintained his timothy meadows. It is impossible to get land into native hay after it has once been plowed, and it might pay to topdress some of our native prairie meadows with well rotted stable manure.

Water for Milk Cow

A correspondent asks how much water a milk cow will drink in a day. This may seem like a foolish question,

but a good many people have rather vague ideas as to the exact quantity of water a heavy milking cow requires. If you have ever had to carry water to a cow, you probably realize how much water it takes to keep a good milk cow going. It is not good form to put water in the milk you sell, but you cannot neglect to supply your milk cows with plenty of water and expect them to keep up the milk flow. A shortage of water will cut down the milk even more quickly than a shortage of feed. Every pound of milk you draw from a cor contains about eighty-seven parts wate. It has been found that a 750-pound milk cow on grass will drink sixt

It has been found that a 750-pound milk cow on grass will drink sixty pounds of water a day, and the same cow on dry feed will drink over a hundred pounds of water daily. The cow giving milk requires more water that the dry cow. The dairyman cannot afford to stint his cows on water. As abundant supply of pure fresh water is a very important consideration of a dairy farm.

Feeding Work Horses

T. R., Nemaha County, asks about feeding work horses. He wishes especially to know how much grain is necessary to keep a horse in good condition for hard work.

Feeding horses with the best results is not as simple a matter as some may suppose. Probably closer observation is needed in feeding horses than any other class of stock. A horse at hard work uses a considerable portion of his feed for the production of energy. This means that a working horse requires considerably more feed than would be enough to keep him up in condition when he is not working. If he is worked hard on an insufficient ration, the stored-up energy in the form of body fat and tissue will be used and the horse will get thin and finally become so run down as to be of little use for hard work and

also be much more subject to disease. A work horse ration must be concentrated and well balanced, or contain protein, carbohydrates and fats in the right proportion. Corn alone as a grain feed is lacking in protein and must be supplemented with bran or alfalfa of clover hay. Oats as a grain feed has long been recognized as ideal for work horses. Horses cannot perform hard work on rough feed alone. Heavy work horses can use a larger proportion of bulky feed than light horses used for driving, but even the heavy draft horse cannot eat and digest enough hay when doing hard work to keep up in good condition.

There used to be a decided prejudie against the use of alfalfa or clover hay for feeding work horses, but it has been found that alfalfa or clover if clean and bright can be used very successfully. But the mistake should not be made of alfalfa or clover hay and letting the work horses help themselves. The work horse is not likely to eat too much alfalfa or clover hay. Feeding the access to it, but he will eat too much alfalfa or clover hay. Feeding the prairie hay had formerly been feed is responsible for much of the trouble at

The parts of the home-made sterilizer described in the first article on this page are here shown. A is the roasting pan, B the insulated cover consisting of sheets of asbestos board between sheets of galvanized iron. It is fitted with a steam pipe one and one-half inches in diameter, and the top has flanges or ridges to raise the cans, and the upturned edges catch the condensed steam. C is the galvanized iron bottomless box. D is the cover to this box. A few wires are arranged across the top of this box from which can be hung strainer cloths. To use the box it is placed over the steam pipe with the cover on and the cloths will be thoroughly steamed. To use the sterilizer, all that is necessary is to put some water in the pan, place it over the fire or oil burners and fit the lid. When live steam is escaping from the steam pipe, invert pails or cans over it and leave them for five minutes. Replenish the water as often as necessary. Farmers' Bulletin 748 describes in detail how to make and use this simple sterilizer. Copies of the bulletin will be furnished free as long as they last. Address the Department of Agriculture, Washington, D. C. yean alf a essed nure, Usu-

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ributed to the feeding of alfalfa or eloder the supervision of Dr. C. W. Mc-Campbell with artillery horses at Fort Campbell with articley houses at Fore Riley some years ago, army officers were convinced almost against their wills that alfalfa could be used to good advantage alialia could be used to good advantage in feeding artillery horses and at no time were the horses more subject to disease or shorter in wind and less effidisease or shorter in wind and less effi-cient than when fed on prairie hay. It was simply a matter of being careful to feed hay free from dust and mold and limiting the quantity allowed each horse, instead of permitting them to eat at will.

at will. It is a good rule to allow about eleven pounds of grain and twelve pounds of hay to a thousand pounds of weight for horses at moderate work. This means that a 1,200-pound horse would require about thirteen pounds of grain and four-teen and a half pounds of hay as a daily ration. If the horses are at hard work, the grain should be increased to twelve or fourteen pounds to the thousand pounds of weight and the hay somewhat reduced, or not more than about twelve and a half pounds to the thousand pounds of weight. Most of the hay should be fed at night.

Milk Strainers Compared

Cleanliness is of the greatest impor-tance in producing milk. Milk is a hu-man food and no other food product is man tood and no other tood product is so easily contaminated and rendered un-fit for use or dangerous to the con-sumer. Dairymen who wish to use ev-ery precaution possible to keep milk clean will be interested in the report of heir concelligits of the United States dairy specialists of the United States dairy specialists of the United States Department of Agriculture on the rela-tive merits of different methods of straining milk. It is pointed out in this report that certain kinds of strainers cause milk to appear clean but fail to remove all impurities. Of all the milk filters in use out the appear parts remove all impurities. Or all the mink filters in use only two-absorbent cot^{*} ton and filter cloth—are reasonably effi-cient, according to the department, in actually improving the commercial quality of milk. Even these filters must be kept clean and changed frequently to insure satisfactory results.

insure satisfactory results. According to reports from about 40,-000 farms, wine gauze strainers are in more general use than any other kind, but studies with the microscope show plainly that the meshes are much too large to hold back any but the very coarse impurities. One thickness of cheesecloth or other cotton cloth is only slightly more effective than a wire-gauze strainer, but when the cloth is folded to about eight thicknesses its ability to remove dirt in milk increases somewhat, but is still inefficient as com-pared to absorbent cotton or filter cloth. pared to absorbent cotton or filter cloth. Filter cloth, a specially made cotton cloth, smooth on one side and fuzzy on the other, was found reasonably effec-tive. This cloth can be obtained from heading doing the milks tive. This cloth can be obtained from leading dairy supply houses. The milk should be poured on the fuzzy side, the fibers of which stand up like the nap of a carpet and remove all but a small percentage of the solid impurities. The most effective strainer of all, however, seconding to the convincents was a according to the experiments, was a layer of absorbent cotton placed between two thicknesses of cheesecloth.

At best, straining milk is a practice that makes milk appear clean and there-fore more easily salable, but no strainer removes either the bacteria and objec-tionable flavors or the very fine dirt. As a consequence straining milk fails to improve its wholesomeness to any no-ticeable degree. Clean milk is hest ob-Improve its wholesomeness to any no-ticeable degree. Clean milk is best ob-tained by sanitary methods which pre-vent, so far as possible, the entrance of dirt into the milk. This can be done best by having clean cows in a clean stable and milking with clean hands into sterilized small-top pails. Detailed information on the proper care and use of strainers is given in

Farmers' Bulletin No. 1019, "Straining Milk." This bulletin can be obtained on request from the Description of Agrirequest from the Department of Agrl-culture, Washington, D. C.

The Ocean Shipping Situation

The latest official statement on the The latest official statement on the world's ocean shipping situation is very reassuring and clearly indicates that be-fore the present year is far advanced the world's merchant fleet may be as large as prior to the war. This will not mean an abundant supply of tonnage for all needs, because a number of ships still will be required for military pur-poses, and a larger proportion of the moved longer distances, owing to the shortage in Eastern Europe. However,

KANSAS the general position will be greatly im-proved and is expected to grow better. The United States Shipping Board now has under contract 1,33 steel cargo ships which will be completed in 1920, and there will then be under the Amer-ican flag a total steel cargo and passen-ger fleet of 16,732,700 dead-weight tons; 788 vessels with a dead-weight tons; 780 to verseas trade. The United States Shipping Board estimates that from December 1, 1918, to March 1, 1919, there were carried overseas 1,200,000 tons of foodstuffs, 80 per cent of which was loaded in American bottoms. These facts would appear to assure exporters facts would appear to assure exporters and importers that ample tonnage for the expansion of American sea-borne trade will soon be available and that lower rates and more favorable shipping conditions will prevail in the near future.

The Girl and Her Call

It is always interesting to learn of the accomplishments of boys or girls in handling improved live stock. It has often been said that the true live stock man is born, not made, and young people cannot begin too early to practice along the lines of their natural inclinations. Ruth Lindley, of Indiana, who made a rather remarkable record in the show-

ing of an Angus calf last year, writes as follows of feeding and showing this

as follows of the second prize winner: "I began feeding my calf, George Washington, April 1, when he was a little over one year old, being calved February 22, 1917, weighing at this time 700 pounds. "For the first three months I fed 7

"For the first three months I fed 7 pounds chopped soft corn and 2½ pounds alfalfa hay twice a day. The second month I began to add bran and cotton-seed meal occasionally, sprinkling it over the corn, but he didn't seem to care for either and left most of it. I tried feed-ing the bran for two months and the cottonesed meal for three months cottonseed meal for three months.

cottonseed meal for three months. "By the last of the third month, as he was wasting the corn by spitting out the cobs, I began shelling the corn, feed-ing five pounds three times a day, leav-ing out the bran. He had eaten good up until now, not missing a meal, but the last two months he would miss a meal or part of one now and then. Permeal or part of one now and then. Perhaps I had tried to increase his rations too much. He has never been on pasture, too much. He has never been on pasture, but for the last two months, when I thought he wasn't eating enough, I would turn him in the yard for ten or fifteen minutes, give a handful of oats or bran or cracked corn or chopped corn instead of the shelled, so as to sharpen his ap-

of the shelled, so as to snarpen his ap-petite. "During the last four months, or as soon as the flies began to bother, I kept him in a large darkened stable, 36 by 12 and bedded with sawdust, during the day, but turn him out in the barn lot at night to rest close by the other cat-tle, so as to keep him contented. "His mother was a grade cow, fully three-quarters Angus—and his sire was a pure-bred Aberdeen-Angus. "I curried and led him for exercise twice a week, or whenever I happened

twice a week, or whenever I happened to have time, but as much as possible. to have time, but as much as possible. The first of every month I weighed him. He weighed, on April 1, 700 pounds; May 1, 860 pounds; June 1, 960 pounds; July 1, 1,040 pounds; August 1, 1,120 pounds, and September 1, 1,200 pounds. "I fed him 153 days and he made a daily gain of 3.26. The calf cost me \$90, the feed \$42.61, and trucking to fairs \$10. I sold him at the I. & I. fair at Danville. Illinois, for \$250, making a at Danville, Illinois, for \$250, making a

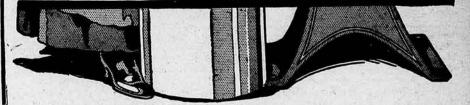
profit of \$107.39. "The premiums received at the Foun-"The premiums received at the Foun-tain County Fair were sweepstakes in county, a trip to the International at Chicago; first in township, a trip to Purdue University, and the Aberdeen-Angus gold medal and \$10. Winning first at the I. & I. fair at Danville, Illi-nois, I received \$50 from Fair Associa-tion for first on individual and \$20 and tion for first on individual and \$30 and trophy cup from J. Ogden Armour, the

Chicago packer. "I found much enjoyment in the feeding, brushing and taking care of my calf and I believe he liked it as well as I. I learned many things new to me and hope they will be useful and that I will profit by them."

Among the vegetable oils, that made from cottonseed stands in a class by itself with respect to its production in this country. In 1912 it constituted 73 per cent, and in 1917, when the cotton crop was unusually short, 61 per cent of the total production.



YOU S can't afford to use a second or third grade CREAM SEPARATOR



Get a DE LAVAL

Many users make the mistake of "saving" \$10 or \$15 in the first cost of a cream separator. More of them continue the use of an inferior or half-worn-out machine simply because it still operates.

These users fail to consider what it means if the separation is not complete; if the capacity of their separator is so small that it needs to be run longer; if it is out of order a good part of the time, or if the quality of the product is not the very best it could be.

They fail to realize what a very little difference means in the use of a cream separator twice a day every day in the year, and what a difference it makes in first cost whether a machine lasts three years or fifteen years.

All these differences led to the great majority of experienced users buying De Laval machines when butter was worth 20c a pound, and they mean just three times as much when it is worth 60c a pound and when every minute of time saved is worth so much more than it was a few years ago.

De Laval superiority over other cream separators is no uncertain quantity that cannot be seen or measured. On the contrary, it is capable of demonstration to every separator user, and every De Laval agent is anxious for the opportunity to demonstrate it.

If you don't know the local De Laval agent, write to the nearest De Laval office as below and we shall be glad to put him into prompt communication with you.

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Well-fed Crops, like Well-fed Stock, pay Best

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Feed your crops as you feed your stockgenerously but wisely. Apply a liberal amount of high-grade commercial fertilizer. Then guard your investment by prompt and thorough tillage. There is no better way of mul-tiplying the fruits of your labor than by using

Empire Fertilizers

They furnish quickly available plant food and, unlike manure, are free from weeds. They start the crops off vigorously, carry them through, and hasten maturity. With the demand for food so urgent, they should pay better this year than ever before.

We have fertilizers with or without potash. The potash is soluble in water.

Our Agricultural Service Bureau will gladly aid you, without charge, in selecting the right fertilizers or by testing your soil as to its need of lime. Our book "How to Make Money with Fertilizers" points the way to bigger crops of better quality. It will be sent free with our crop books and bulletins if you will mention the crops you intend to grow intend to grow.

If we have no agent in your town, we want one. Write for our nearest agent's address or ask for an agency for yourself.

The American Agricultural Chemical Company

EMPIRE CARBON WORKS 504 B Commonwealth Trust Building, St. Louis, Mo.

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155 ACRES, part creek bottom and second bottom, cultivated to alfalfa for fifteen years, soil very productive. 105 acres in wheat in choicest condition; on macadam road, four miles from center of Topeka, Kansas, 11 miles from Washburn College grounds. Two large hay barns 60 tons capacity each, barn for six or eight horses and three cows, large corn crib and granary, implement sheds, wash house, sixroom dwelling with large yard and plenty of shade trees, buildings newly painted, well and wind mill of never failing finest drinking water.

Price, \$200.00 per acre without crop, or \$225.00 per acre with wheat crop. Terms: One-half or more cash, balance mortgage at 6 per cent. Absolutely no trader J. C. HARMON, Drawer 639, Topeka, Kansas. Address owner,

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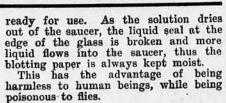
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> THE WESTERN AGENCY, Topeka, Kansas will send you full particulars without cost obligation.

A Harmless Fly Poison

A solution of sodium salicylate sweetened with a pinch of brown sugar is recommended by the Kansas Board of Health as a safe and effective poison for flies. Dissolve one and a half tea-spoonfuls of salicylate of sodium in a half pint of water, adding a little brown sugar. Partially fill a tumbler with the solution, place a piece of blotting paper the size of a saucer over the top, and on top of the blotting paper set a saucer. The whole is then quickly inverted, a toothpick or match placed under the edge of the glass, and the container is



QUICK BESULTS!

"Sold for cash in 10 days. Recommend your methods."—W. H., Medford, Iowa. "Your method sold my farm for cash." —Mrs. L. A., Childs, Minn. "Sold my prop-erty. Your plan the quickest I ever saw." —Johnson, Niles, Ks.

Andrew Carnegie says: "Keep expenditures always below income; save something. The fundamental difference between the civilized man and the savage is thrift." Buy W. S. S.

Young Dairymen Make Record

WO young men on a farm in Riley County have made five official records with pure-bred dairy cows on their father's farm. Three of these are yearly records which have just been completed. These boys have con-ducted this official testing work while attending college, carrying full assign-ments, and during the past year both have performed military service. Fred Young, the older of the two, who is a senior in the agricultural college, was called to Camp Funston last September. His younger brother, Clemens, was a member of the Students' Army Training Corps. Corps.

The Youngs began building up this dairy herd two years ago and have rea-son to be proud of the official records made in so short a period of time. The first cow to complete the yearly

made in so short a period of time. The first cow to complete the yearly record was Lady Volga Colanthus 3d, a pure-bred Holstein. She has broken the state record in the junior two-year-old division by producing 18,565 pounds of milk and 685.5 pounds of butter in one year. In doing this she displaced Leah Campbell Mutual Jess, owned by the agricultural college, whose record of 15,-170.3 pounds of milk and 667.2 pounds of butter now takes second place. Another cow, also a pure-bred Hol-stein, Lady Volga Colanthus 2d, has broken the state yearly record in the senior three-year-old division. She pro-duced 21,200 pounds of milk and 822 pounds of butter in a year. She is the first cow in the state to produce over 20,000 pounds of milk in a year. Besides holding the state record in the yearly division, she also holds the three-year-old record in the seven-day division. She produced 24.5 pounds of butter and 564 pounds of milk in seven days. She has milked as high as 91 pounds or 11½ gallons of milk in a day. These cows were milked four times a day for the entire year, with the excep-

These cows were milked four times a day for the entire year, with the excep-tion of two months and a half, while the boys were in the army. During this time the cows were milked but three times a day, as Mr. Young, the owner of the herd, was unable to hire help to do what the boys had done.

But the cows received as good care as could be given them under the cir-cumstances, and the return of the boys enabled them to go on with their testing.

Cost of Keeping Dairy Bull

A KANSAS FARMER reader who owns a dairy-bred bull with the best of pro-duction records in his ancestry was told by a breeder who wrote to ask what his service fee would be that fifty dollars was "beyond all reason." The owner of this bull has six carefully selected purebred cows, and was determined that the bull he selected should be good enough to bring about improvement in the herd. Seven of the cows in this bull's ancestry had yearly records averaging 1,040 pounds of butter and 25,448 pounds of milk. The twelve nearest dams aver-aged twenty-six pounds of butter in seven days. Seven of them have held world records. A careful study of the bull's pedigree showed that all of his female ancestry had unusually consistto bring about improvement in the herd. female ancestry had unusually consist-ent records of production and he felt that he could confidently look forward to this bull's transmitting high produc-tion to his female offspring. But put-ting scide all consideration as to what ting aside all consideration as to what the bull might transmit, he figures that the fee suggested is not unreasonable on the basis of what it is costing him to

breed-his own six cows. The bull cost as a calf \$600, and the express charges amounted to \$35, or a total cost delivered of \$635. He has an individual barn 16 x 16 and the run of a small pasture of three acres. He feeds some oats, oilmeal, bran and chop twice a day the year round and hay in addition to the pasture a good share of the time. He considers that under the head of feed and care he should charge at least \$100 a year, as he could not hire anyone to feed and care for him in this manner for less. He figures interest at 8 per cent, as that is what it would cost him at the bank if he should have to borrow money to replace the animal. Adding interest and \$100 for cost of feed and care brings the cost of this bull at the end of the first year, when he first began using him, to \$785, cs \$130 cs the cost of breeding each of or \$130 as the cost of breeding each of the six cows. For the next year he adds \$60 interest and \$100 for feed and care, making the bull represent a total cost at that time of \$945. Dividing by twelve gives \$78, which he considers as

the cost of breeding each of his six cows twice if the bull had died at the end of the second season. He adds \$75 interest for the second season. the second season. He adds \$75 interest for the next season, and \$100 for feed and care, making a total of \$1,120. Di-viding by eighteen gives \$62 as the av-erage cost of breeding his cows the first second and third season. In the same manner he figures his bull will repre-sent a cost of \$1,309 at the end of the formation of the season of a cost of \$51.500 at the season at \$51.500 at the season \$51.500 at the season \$51.500 at the season fourth breeding season, or a cost of \$54 a cow each year for the four seasons, a cow each year for the four seasons. These are suggestive figures, but of course the animal could be used in a much larger herd, which would reduce the cost per cow. It is expensive to keep a bull of such breeding at the head of a herd of only six cows. There is a lack of appreciation of what it means to have such an animal in a neighbor-hood and available for use in breeding a few cows. The man who goes to the expense of buying and keeping a high class bull frequently has reason to be discouraged because his neighbors are so unappreciative of the opportunity brought to their doors.

Germans Should Restore Cows

"For four years," said Herbert Hoover to the Anglo-Franco-American Club in Paris recently, "we have maintained a stream of condensed milk and other children's food into Belgium and Northern France. There is no cruelty to the

ern France. There is no eruelty to the European population greater than to rob them of their dairy stock, for on that depends the feeding of their young. "There is one reparation that the Ger-mans should be compelled to make, abre all others, to the devastated countris they have pillaged, namely the restitu-tion, cow for cow, of the herds they have taken. Money is not sufficient; children cannot be nursed on money."

Grange and National Legislation

(Continued from Page Five)

for the strictest government control of the railroads and other public utilities with an insistent demand that the pub-lic be adequately protected from every form of exploitation, discrimination and injustice injustice.

Control of Trusts-The Grange stands today, as it has stood at all times, for the strictest control of trusts and busi-ness combinations to the end that the exploitation of the public and extortion and discrimination may be prevented. Tariff—In the readjustment of tariff schedules we demand that agricultural products be given the same protection

Equal Suffrage—The Grange unquali-fieldy favors equal suffrage and cit-zenship rights to be guaranteed to women by federal constitutional amendment.

Taxation-The Grange stands for just and equitable income and inheritance taxes, and insists that all property shall be taxed equally according to its true and actual value. Militarism — We oppose the building up of a militarism in this country which

will become a menace to the peace, prosperity and contentment of our people. Prohibition—The Grange favors such strong and positive legislation as is necessary to enforce and make effective the

federal prohibition amendment. Postal Zone System—We are opposed to the postal zone system — we are opposed turn to the system of a single rate of postage for all publications, regardless of distance availed of distance carried.

Postal Betterments—The Grange de-mands that rural delivery of mail, the parcels post and postal savings service be extended and improved with a view

to the greatest possible efficiency. League of Nations—The Grange favors a League of Nations to conserve peace, and will support a league, the covenant of which of a league, the covenant of which adequately upholds and pro-tects the sovereignty and interests of the United States."

European dairy herds are sadly de-pleted. One ordinary milk cow sells for over \$600 in Sweden at the present time. Outlook for cattle raising and dairy in-dustry appears good dustry appears good.

BINDER TWINE—Get our low price shipped from western warehouse. Farmer agents wanted. Free sample. Theo. F. Burt & Sons, Melrose, Ohio.

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KANSAS FARMER

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Shall The Packers Rule?

NDER the above head F. C. Crocker, a prominent Nebraska breeder and president of the state federa-tion of farm bureaus, expresses his views in the Nebraska Farmer on the question of the proposed co-operation be-tween producers and packers. We have tween producers and packers. We have endeavored to keep our readers informed of the efforts being made to get a bet-ter understanding between the packers and producers. Mr. Crocker takes the stand that producers should watch packer representatives most closely in any negotiations which may take place. Wis letter is as follows: His letter is as follows:

"Do the American people within ten years' time care to have the packers years' time care to have the packers control the greater lines of commerce and industry of our country? If the people continue to sleep on this propo-sition as they have the ten years just past, this may come true. It might be considered legitimate that they should gain this mighty control if it were not for the recent findings of the Federal Trade Commission which would prove them to be a monopoly. One of the most timely needs of our government is to then to be a monopoly. Uncontrolled it most control this monopoly. Uncontrolled it will be the chief agency that will bring the unwelcome bolshevik spirit to our country in some form. The recent find-ings of the Federal Trade Commission afford ample basis for action. The findings would indicate that the packers are operating in restraint of trade and dividing the spoils. "Two bills, known as the Kenyon and

Kendrick bills, were offered at the last session of Congress, each purporting to regulate the packers. Under the Ken-yon bill the government would simply take over the stock yards and packerowned transportation facilities and thereby prevent discrimination either in buying or selling and permit fair ship-ping facilities for all. The Kendrick bill would license the packer to operate his own transportation lines fairly, with light fines for violation, made lighter still by amendment to this bill. The Kindrick bill seemed to get much far-kendrick bill seemed to get much far-ther along than the Kenyon bill, but they were both lost by the premature adjournment of Congress. "The findings of the Federal Trade Commission score to have driven the

"The findings of the rederat trade Commission seem to have driven the packers to the use of open methods of defending their business. This highly capitalized, well organized, mutually op-erated trust is expending lavishly great sums of money, not alone to mould pub-lie sontinent in its favor through the lie sentiment in its favor through the press, but to keep down the righteous and deserving criticism which a free and just press should give them. By these very methods the packers have thrown themselves before the spotlight of public opinion.

"The packers are hastening to seek the co-operation and good will of organ-izations representing the meat producing industries of our country. They appear to be desirous of making any concesto be desirous of making any conces-sions. Two apparently semi-official meetings of live stock organizations have been called, at which the packer influence was quite dominant. One meeting was held at Chicago on March 10 and 11, and one at Kansas City on April 12 last. At the Chicago meeting tentative recommendations were indorsed which if put into execution with the which if put into execution with the live stock organizations co-operating, would have had the moral effect of ty-ing the hands of the live stock organizalive tions and forbidding their promoting fur-ther effective legislation to control the packer. They would have been expected to investigate a subleme and to investigate the packer problems and arbitrate their differences.

"The purpose of the Kansas City meet-ing seemed primarily to be a demand upon the western live stock organiza-tions the western live stock organiza-While the western live stock organiza-tions to indorse this Chicago platform. While the western producers' interests seem to lack the firmness needed on thereast seem to lack the firmness needed on thorough organization to make their purpose most effective, yet they were strong enough to break the packers' game of a proposed joint committee. An independent committee to counsel from time to time with the packers was inindependent committee to counsel from time to time with the packers was in-dorsed. The complete organization of this independent committee will be ef-fected in Chicago May 15. Even with this committee the packers will no doubt be able to divide and divert the atten-tion of producers who are striving to control them. Personal grievances of shippers and minor issues will be han-operating with the packers. operating with the packers. "Are the producers of our land going to fall for the openly flagrant and rot-

ten game? Are they to be bribed by temporary alluring promises and join hands with the common enemy we have

today a chance to fight and to conquer? "If laws are not now made to controlthe packer and our country shall meet with some form of socialistic uprising, shall the consuming public be permitted to point to producers who have then reaped our whirlwind as a party to a combination which has violated a trust, made more served to us heaving of the made more sacred to us because of the God-given soil that we produced from? Shall we permit ourselves to be con-fused upon the cleancut fight that is before us?

"Let the producers of our land organ-ize and demand of Congress that food products be distributed fairly to feed humanity."

Economic Farm Power

(Continued from Page One)

numbers. I need only to call your at-tention to the fact that the Liberty tention to the fact that the Liberty motor—now generally acknowledged by all unprejudiced persons to be the greatest motor ever turned out—was being manufactured in four different plants at the close of the war. In fact, the production during October reached more than 5,000 such motors, which was more than the total production of aero-plane motors of France and England during the entire four years of the war. Type of Horse Required The horse which is to meet our farm requirements must have weight; first,

requirements must have weight; first, because the unit of man labor which now goes with the unit of horse power, as goes with the unit of horse power, as well as the machinery used, is adapted to anywhere from five or six to eight or ten horses. In the case of the tractor the unit of power which goes with one man may be even larger. On the basis of our methods in modern farming and the size of the farm, the unit of horse power must be large, if it is to be best adapted to the utilization of man power. I have already pointed out the impor-tance of using economically, both man and horse power. and horse power. The horse must not only have weigh

The horse must not only have weight, but he must combine with this weight correct conformation, if we are to get the greatest amount of power for a given amount of weight. He must have the right conformation if he is to be able to develop satisfactory speed. That is, he must be able not only to walk at a good rate but else to trat when nec a good rate, but also to trot when necessary, regardless of whether he weighs

1,600 pounds or a ton. The horse must have the right quality and temperament, if he is to wear and perform his work intelligently. Quality and temperament will, no doubt, also be

and temperament will, no doubt, also be of importance from the standpoint of developing a given amount of horse power per unit of weight. Unfortunately we know practically nothing regarding the horse from the standpoint of his efficiency as a motor. If we are to deal intelligently with the problem of economical horse power, whether furnished by the horse or by whether furnished by the horse or by a machine, we must know much more about the efficiency of these various types of motors. Unquestionably, howtypes of motors. Unquestionably, how-ever, the horse with size, right confor-mation, quality and temperament — as these terms are understood at the present time—will prove to be the most economical producer of power as com-pared with other animals which do not meet our standard requirements. In the competition for the most economic sources for farm power, the man who cannot produce a horse which meets the best requirements will play a losing game. And this is as it should be. The horse, as well as everyone else, must make good on the basis of what he can

EDITOR'S NOTE .- The above discussion power is from an address at the annual meeting of the Illinois Draft Horse Breeders' Association. Mr. Handschin is professor of farm organization and man-agement at the Illinois University. This institution has been conducting exhaustive studied in the cost of farm opera-tions and the profit resulting from various systems of management. Professor Handschin has had direct charge of this work, which has been under way for the past seven years. In the course of his address he also spoke of the farm tractor as a source of farm power. His remarks on this we will give in a later issue.



May 10, 1919



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BLACK AMBER CANE SEED, \$1.50 BU. C. Robinson, Montezuma, Kansas.

CHOICE BLACK AMBER CANE SEED, \$3,75 per hundred. Gus Herfert, Julesburg, Colorado.

CHOICE BLACK CANE, \$1.60 BUSHEL; ten bushels, \$1.45 bushel. White cane, \$1.80; ten bushels, \$1.75. Emerick Cutter, Hugo-ton, Kansas,

BLACK HULLED WHITE KAFIR, THE kind that has always matured. High ger-mination test. \$3 bushel in two-bushel lots. Sacks must be furnished. R. W. Chestnut, Eincald, Kansas.

BLACK HULLED WHITE DWARF kafir and yellow dwarf maize seed, grown especially for seed of big yielding types, 55 per hundred pounds, graded and sacked f.o.b. Bik City, Okia. Chas. C. Miller.

FOR SALE — TOMATO, CABBAGE AND he famous Nancy Hall sweet potato plants. Tice, 500, \$2; 1,000, \$3. Postage paid. Vrite for price in large lots. S. & H. Plant Truck Farm, North Enid, Oklahoma.

DWARF AND STANDARD BROOM CORN Seed, Ted Top cane, feterita and common millet, \$6; Fodder Orange and Amber cane, Cream and Red Dwarf maize, and Dwarf kaft, \$5:50. All per hundred pounds, freight prepaid; prepaid express, \$1 more. Clay-comb Seed Store, Guymon, Oklahoma.

HARDY OPEN-GROWN PLANTS-NOW shipping leading varieties sweet potatoes, tomatoes, postpaid, 600, \$2.00; 1.000, \$3.50; hot and sweet peppers, eggplant, beets, 500, \$2.50; 1.000, \$4.75. Cabbage, Bermuda on-fons, 500, \$1.25; 1.000, \$2.00. Write or wire for catalog and wholesale prices. Order early and notify us when the ship. Liberty Plant Company, Crystal City, Texas.

MISCELLANEOUS.

HAY RACK SLINGS-ONE MAN EASILY changes heaviest hay racks and wagon boxes. F. Lovering, Fremont, Neb.

CABBAGE CUTTER, SIX KNIVES — Slices all vegetables rapidly. Excellent for potato chips. Prepaid, \$1; three for \$2. Lusher Brothers, Elkhart, Indiana.

DEHORNING.

BLACK DIAMOND DEHORNING PENCIL dehorns fifty head. Guaranteed. Write or phone J. C. Shimer, 1815 Kansas Ave., To-peka. Phone 471.

CATTLE.

REGISTERED SHORTHORN BULLS -Reds, from 12 to 18 months old, at farm-ers' prices. W. T. Hammond, Portis, Kan. REGISTERED HOLSTEIN BULLS FROM one to six months old, \$50 to \$100 delivered anywhere in Kansas. G. E. Berry, Garnett, Kansas.

HIGHLY BRED HOLSTEIN CALVES, either sex, 15-16th pure, from heavy milk-ers, five to seven weeks old, beautifully marked, \$25, crated and delivered to any station, express charges paid here. Send orders or write. Lake View Holstein Place,-Whitewater, Wisconsin.

FARMS WANTED. WANTED-TO HEAR FROM OWNER of good farm for sale. State cash price, full particulars. D. F. Bush, Minneapolis, Minn.

HONEY.

REGARDING THE LAST WORD IN FINE honey, write to Drexel; the Bee Man, Craw-ford, Colorado.

HONEY—CHOICE WHITE ALFALFA, 120 Ibs., \$24; 60 lbs., \$12.50. Amber honey, 120 lbs., \$22; 60 lbs., \$12. Bert W. Hopper, Rocky Ford, Colorado.

PATENTS.

JAMES N. LYLES — PATENTS, TRADE-marks and copyrights, 734 Eighth Street N. W., Washington, D. C.

REAL ESTATE.

LANDLESS MEN-LET US HELP YOU to a farm home. Farms to meet all requireents. I-206 Andrus Bidg., Minneapolis, Bros., Minn.

FOR SALE — EASTERN COLORADO land. A good half section, improved, part in crop. Buy direct from owner and pay one man's price in place of two. O. F. Lovelace, Stratton, Colorado.

Lovelace, Stratton, Colorado. SOUTHWEST KANSAS IS DEVELOPING fast. Farmers are making good profits on small investments. It is the best place to-day for the man of moderate means. You can get 160 acres for \$200 to \$300 down, and no further payment on principal for two years, then balance one-eighth of purchase price annually, interest only 6%—price \$10 to \$15 an acre. Write for our book of letters from farmers who are making good there now, also illustrated folder with particulars of our easy purchase contract. Address W. T. Cliver, Santa Fe Land Improvement Com-pany, 405 Santa Fe Bidg., Topeka, Kansas.

GOATS

TWO FINE MILK GOAT BUCKS. J. R. Davis, Columbus, Kansas, KODAK FINISHING.

KODAKERS—AN ENLARGEMENT FROM your film for a few minutes of your spare time. Your name and address brings full information. Williams Studio, Beatrice, Nep.

DOGS.

AIREDALES, COLLIES AND OLD ENG-lish Shepherds. Pups, grown dogs and brood matrons. Large instructive list, 5c. W. R. Watson, Box 128, Oakland, Iowa.

Real Estate For Sale

80 Acres, Southeastern Kansas 80 Acres, Southeastern Kansas 14 miles from sood country store, church and school; about 6 miles from nearest rail-road town, in a good neighborhood, on rural nouse, outside cellar, weil, right good barn; half in cultivation, half meadow and pas-ture. Fractically every acre tillable. Good rich limestone soil, practically no stone. A splendid proposition, make some man a good home. Price, \$3,750; \$500 to \$700 down and balance on time. Why rent? Why not own a home of your own? Land will advance \$20 an acre be-fore January 1. Come and see this farm at once. It will not be on the market long. One or two crops of wheat will pay for it. Send for further information. Address Allan County Investment Co.

Allen County Investment Co., Iola, Kansas

HOME FARM, 320 ACRES Out 6½ miles. Good buildings. Fine water, 160 wheat, half with sale; some alfalfa. Only 08,500, with \$2,500 cash, bal-ance long time. One good 160, out 9 miles, small house, 100 smooth, 60 wheat, 40 spring crops, one-fourth with sale; shallow to water; only \$2,500, with \$500 cash, balance terms. Have other farms and ranches on small payments now, another payment after harvest. harvest. B. C. BUXTON, Utica, Ness County, Kansas

Northeast Kansas Bargain

Forty miles Kansas City, 200 acres, 5 miles ood town. Fair improvements. 150 acres liable, balance bluegrass, timber, pasture. his is a real bargain. Price, \$50 per acre. Wm. Pennington McLouth, Jefferson County, Kansas tillable, This is

EIGHTY AORES Near Emporia; alfalfa land, well improved, good orchard, possession at once. \$115 per acre. Write for list of farms. T. B. GODSEY - EMPORIA, KANSAS

SOUTHEASTERN KANSAS — Farms, all sizes; lowest prices. Terms, \$1,000 and up. Send for booklet. THE ALLEN COUNTY INVESTMENT CO., Iola, Kansas.



Lincoln on Farming

No other occupation opens so wide a field for profitable and agreeable com-bination of labor with cultivated thought

as agriculture. I know nothing so pleasant to the mind as the discovery of anything that is at once new and valuable—nothing that so lightens and sweetens toil as the hopeful pursuit of such discovery the hoperul pursuit of such discovery. The mind already trained to thought in the country school, or high school, can-not fail to find there an exhaustive source of enjoyment. Every blade of grass is a study; and to produce two where there was but one is both a profit and a pleasure.

And not grass alone, but soil, seeds and seasons-hedges, ditches and fences -draining, droughts and irrigationplowing, hoeing and harrowing-reaping, mowing and threshing-saving crops, pests of crops, disease of crops, and what pests of crops, disease of crops, and what will prevent or cure them—implements, utensils and machines, their relative merits and how to improve them—hogs, horses and cattle—sheep, goats and poultry—trees, shrubs, fruits, plants and flowers—the thousand things of which these are specimens—each a world of study within itself.

Rats and mice have been found to be carriers of bovine tuberculosis. Clean them out.

THE HOME-MAKER'S FORUM ETHEL WHIPPLE, Editor

Letters from readers are always welcome. You are urged to send in helpful suggestions, to give your experiences, or to ask questions, Address the Editor of this Department,

Fruits and Vegetables in Diet

HE eating of fruits and vegetables The special function served by this group of foods is fourfold, according to Miss Inga M. K. Allison of the Colorado

Agricultural College. Within the last half dozen years fruits and vegetables have come to be known as an important source of the food essentials known as vitamines, which are regarded as necessary to growth. The cellulose which serves as the framework of fruits and vegetables also very desirable, its bulkiness assisting the digestive processes and giv-ing a laxative tendency. The organic acids contained in these foods give them their pleasing flavors, exert a laxative effect and serve other useful purposes. The fourth function is that of supplying to the body the essential mineral salts -iron, calcium, phosphorus, potassium, sodium, sulphur and chlorine. The first three elements named are particularly important and their presence in the diet

If each day's ration contained two medium-sized potatoes, a serving of some other vegetable and the equivalent of a medium-sized apple in fresh fruit, Miss Allison believes the needs of the body for this class of foods would prob-

ably be supplied. "Special care should be exercised," she says, "to make sure that the dietary includes a generous supply of foods in which iron, phosphorus, and calcium do occur. Foods rich in iron are egg yolk, lean meat, spinach, fruits, and cereal grains. Generous use of milk, legumes, celery, cabbage and cereals will insure an adequate supply of calcium salts to the body. Phosphorus contained in egg is considered to be more completely utilized than that derived from any other source, but beans, wheat and oats also serve to supply that element."

The Fly

The housefly exists only through the toleration of man-a toleration which,

were it not ignorant, would be criminal. The housefly is the most terrible single enemy that mankind has among living creatures. Beasts of the jungle have slain their thousands, but this prowler in the household has slain his tens of thousands. Of all vermin he is the most filthy; of all purveyors of disease, the

most deadly. The housefly is born in offal-nowhere else. And his life is in keeping with his birth. He lives, to the day of his death, in filth. The manure pile, the cuspidor and the cesspool are his home. It is from those haunts that he comes to visit the kitchen, the din-ing room and the nursery. He drags his filthy feet across the bread, dips them in the butter, wipes them on the meat and bathes in the milk. He seeks out the sick room of the consumptive, the typhoid fever patient and the child with summer complaint. Then he flies to the kitchen and deposits the poison on the rim of the milk bottle, and to the nur-

sery, where he alights on baby's lips. Don't mind a rattlesnake or two about the house, but kill every housefly as you value your life and the lives of your children. Don't buy your groceries or your milk or bread or fruit of any dealer who is not as particular as your-self. There would be little typhoid fever without the housefly, and little

chance of cholera infantum. And there can be no flies where there is no filth. Keep your kitchen, cellar and yard clean; let no refuse accumulate. Put lime about the stable and keep the garbage pail tightly covered. Use fy traps, sticky paper and the wire paddle until the house is clear.—Fly Bulletin, State Board of Health.

Aids for House Cleaning

The following list of cleaning aids and The following list of cleaning aids and their uses is given by the extension service of the University of Nebraska: Naphtha scap for coarse boards and heavy kettles; white scap, woodwork; high grade white scap, woodwork; high grade white scap, glasses and china; scouring compound, porcelain and windows; steel wool, for removing war ing for painted or varnished surfaces; floor wax, floors and furniture; kerodrains, cleaning enamel sinks, tubs, etc.; ammonia, washing windows and lino-leum; borax, for softening water and washing glassware; chloride of lime, diswasning glassware; chloride of lime, dis-infectant for bathrooms; whiting, for cleaning enameled paint and nickel; lin-seed oil, for wiping woodwork and pol-ishing cast iron and ranges (burn clotä at once to avoid danger of spontaneous combustion); gasoline, cleaning enam-eled tubs, bowls and sinks; turpentine, disting was floors: washing soda for disting was floors; washing soda, for cleaning drains, traps, toilets, refriger-ators, and rough and painted surfaces; rottenstone, polishing brass and copper.

Renewing Shabby Furniture

Often a little of the right kind of finishing material will restore old fur-

finishing material will restore old fur-niture at a very small expenditure. To renovate old furniture, first dean the surface thoroughly, removing all grease and dirt. Use soap and water. If the varnished surface is merely scratched or marred, sandpaper lightly and apply one or two coats of furniture or interior versich. If however, it is and apply one or two coats of furnitue or interior varnish. If, however, it is desired to change the color of the fur-niture to a darker shade, apply one coat of varnish stain and when dry finish with one coat of varnish. If it is de-sired to change from a dark to a light color, apply one coat of ground coat and finish with two coats of varnish stain of the desired color. of the desired color.

Mother

Mother The noblest thoughts my soul can claim; The holiest words my tongue can frame; Unworthy are to praise the name More sacred than all other. An infant, when her love first came A man. I find it just the same; Reverently I breathe her name; The blessed name of mother. —George Griffith Fettër.

Mother's Day

Nother's Day Don't forget Mother's Day—May Il. Wear a carnation or other flower in honor of your mother. The usual cus-tom is to wear a pink flower in honor of a living mother or a white flower in memory of one who has gone from us. Thank God from the dorthe of your Thank God from the depths of your heart if you may wear the pink. Take time to think of what motherhood means time to think of what motherhood means —what it has meant in your life—and if your mother is still living, write her a letter expressing some of the things you have always felt but have probably kept to yourself, following the caveman instinct which prompts all of us to sup-press the fonder feelings and conceal our deeper thoughts. If you are a mother, the day will

If you are a mother, the day will

THE GREATEST LOVE

TO LANGUAGE can express the power and beauty and heroism and majesty of a mother's love. It shrinks not where man cowers and grows stronger where man faints and over the wastes of worldly fortune sends the radiance of quqenchless fidelity like a star in heaven.—E. H. CHAPIN.

fay 10, 1919

ave for you a double significance. ave for you a double significance. As ou think of what your mother has neant to you, you will also think of that you want your influence to be the lives of your children. So reat is the responsibility and so larger the opportunity of motherhood that very mother of little children must feel omathing of the sentiment: As mething of the sentiment:

"Oh, what am I that I should train An angel for the skies, Or make the potent draught that feeds The soul within those eyes?",

Canning Strawberries

Berries canned by this recipe will not ise to the top of the syrup. Use only resh, ripe, firm, sound berries. Clean, rash and stem the strawberries, add one resh, ripe, rinn, being being the strawberries, add one up of sugar and two tablespoons of water to each quart, boil slowly for fif-een minutes in an enamel or other acid-broof kettle. Allow them to cool and tand for several hours or over night in the covered kettle. Pack the cold berries in hot glass jars or enameled tin eans, filling them up to the top. Put ubbers and caps of jars in position oosely enough so that the edge of a nife blade can be inserted below the eap. If tin cans are used, cap and tip hem. Sterilize for eight minutes in hot water bath, or five minutes under five pounds steam pressure. Do not use more water bath, or rive minutes under rive pounds steam pressure. Do not use more han five pounds of steam for the pooked berries. Remove from canner, ighten covers, invert to cool and test oints, wrap in paper to prevent bleachng, and store.

Another satisfactory way of canning trawberries is to pack the fresh ber-ties in the jars, pour over them hot. yrup previously prepared, place rubber nd cap in position, not tight, and ster-lize in hot water bath twenty minutes pr under from two to five pounds of team pressure for fifteen minutes. Re-move and tighten covers. Cool and wrap is directed above. This latter method gives a good tasting product which keeps well, but berries canned in this way well, but berries canned in this way asually rise to the top of the jar.

Omelets

A wholesome, easily digested and at he same time attractive way of serv-og eggs is in an omelet. The secret of good omelet lies in thorough beating f the eggs and serving as soon as it is eady. The recipe for plain omelet may be varied by adding oysters or minced am or bacon to the mixture or spread-ng with jelly just before taking from he pan.

Plain Omelet

Plain Ometer ¹/₄ teaspoons sult ² teaspoons butter ³ eggs ³ tablespoons hot water ³ teaspoon white pepper Beat the yolks of the eggs until light and creamy. Add salt, pepper and hot water. Beat whites until stiff and fold them into the yolks. Heat a small frywater. Beat whites until stiff and fold them into the yolks. Heat a small fry-ing pan and put in enough butter to cover the bottom of the pan, turn in the omelet and spread it evenly. When the omelet is set, carefully fold and turn out onto a hot platter. Serve imme-diately.

French Omelet tablespoons hot water tablespoons butter

2 tablespoons butter 4 eggs ^{1/2} tablespoon salt 1-16 teaspoon pepper Beat the eggs slightly, just enough to mix yolks and whites, then add the hot water and seasoning. Put the but-ter in a small bet former pan and when ter in a small, hot frying pan and when melted turn mixture into the pan. While; this is cooking, mix slightly with a fork until the whole is of a creamy consist-ency. Place on a hotter part of the fire and allow to brown quickly under-neath. Bring all together at one side neath. Bring all together at one side of the pan and carefully slip it out on a hot platter. Garnish and serve while hot.

Spanish Omelet Mix and cook a French omelet. Serve with tomato sauce in the center and around the omelet.

Tomato Sauce 2 tablespoons butter 1½ tablespoons onion Cayenne 2 tablespoon capers 3 tablespoon salt 10 tablespoon salt 10 tablespoon salt

Brown onion-chopped fine-in the butter. Cook the tomatoes with the

Kill All Flies THEY SPREAD Proced anywhere, DAISY FLY KILLER attracts and this all line. Neat, clean, ornamental, convenient and chang, Last all sears, ornamental, convenient and chang, Convenient and anything, Cusaranteed, D ISY REY KILLER at your dealer or fu your dealer or

HAROLD 5 by EXPRESS, prepaid, \$1.25. SOMERS, 150 De Kalb Ave., Brooklyn, N. Y.

KANSAS' FARMER

onion for fifteen minutes. Add the capers, mushrooms and seasoning, If desired, substitute three tablespoons peas

A New Pattern Service

For the past few months KANSAS FARMER has been without a pattern service. We have taken some time to make satisfactory arrangements for an up to date, efficient and timely service, and are glad to announce that we have been fortunate in making provision to secure suitable and up-to-the-minute de-signs each week from New York.

In this issue we show a number of In this issue we show a number or new summer models, including dainty summer dresses, a neat, practical house dress, a work apron and a variety of garments for children and misses. In No. 2843 we have a charming summer dress which may be developed in either organdie, foulard, shantung, lawn, ba-ticto eith badkarchief linen grene or organdie, foulard, shantung, lawn, ba-tiste, silk, handkerchief linen, crepe or voile with trimming of lace net or em-broidery. The little boy's suit, No. 2330, has a new feature in the suspender por-tions, which could be omitted if desired. The busy house worker will readily ap-preciate the good features of No. 2359, or no piece house dress. The front close a one-piece house dress. The front clos-ing makes adjustment easy and is a convenience in ironing. The sleeve may be in either of the two lengths portrayed. In 2852 figured and plain voile may be combined to make a pretty frock for the little miss, while the "growing" girl will always look trim in Model 2836. Drill, linen, khaki or plain gingham would do for this blouse, with striped or plaid material for the skirt and trimming.

Material for the skirt and trimming. Any pattern will be sent for 10 cents. Order adult patterns by number of pat-tern, giving bust measure for waist pat-terns and waist measure for skirt pat-terns. For misses and children give number of pattern and age only.

Summer Style Book

Send 10 cents in silver or stamps for an up-to-date spring and summer style book, containing 550 designs of ladies', misses' and children's patterns, a concise and comprehensive article on dressmak-ing also some points for the needle illus ing, also some points for the needle illus-

trating thirty simple stitches, all valu-able hints to the home dressmaker. Ad-dress KANSAS FARMER, Topeka, Kansas.

Plan to always have some kind of flowers in bloom from the first violets and tulips to the fall chrysanthemums. And keep a bouquet on the dining table. The children will love to gather and ar-range them. Clean table linen, a few tastefully arranged flowers, good cheer and good appetites make the plainest fare taste good.

The best way to keep the hoes and cultivators polished this summer is by use.



2359—Ladies' House sizes, 34, 36, 38, 40, bust measure. Size of 36-inch material. 44 and 46 requires six skirt meas-Dr

ures about 2% yards at the foot. No. 2841-Ladies' Apron: Cut in four sizes; small, 32-34; medium. 36-35; inree, 40-42; and ex-tra large, 44-46 inches bust measure. Size medium requires 4% yards of 36-inch ma-terial, with 1% yards of banding, 2% inches wide, for meck and front. No. 2836-Girse Dress: Cut in four sizes, 8, 10, 12 and 14 years, Size 12 requires 3% yards of 44-inch material. No. 2852-Girl's Dress: Cut in four sizes, 6, 3, 10 and 12 years. Size 16 will require 3% yards of 36-inch material.

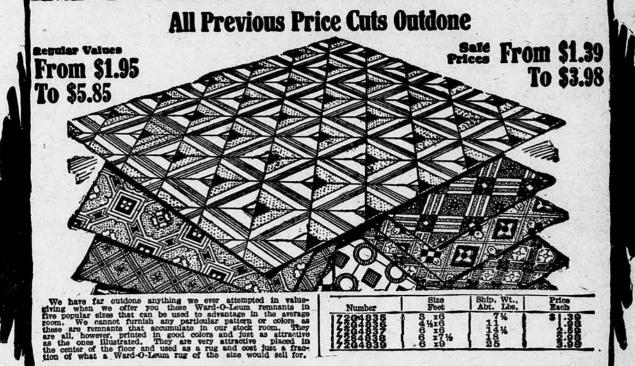


No. 2858 — Misses' Dress: Cut in three sizes, 16, 18 and 20 years. Size 18 requires 44, yards of 44-inch material. Width of skirt at lower edge with plaits extended is about 1% yards. No. 2843—Ladigs' Dress: Cut in six sizes, 34, 36, 38, 40, 42 and 44 inches bust measure. Size 38 requires 4% yards of 44-inch material. Width of skirt at lower edge is about two yards. No. 2416 —Child's Set of Short Clothes: Cut in five sizes, six months, one year, two, three and four years. The dress will require two yards of 36-inch material; the draw-ers 1% yards of 27 or 36-inch material; for a three-year size. No. 2830 — Boys' Suits Cut in four sizes, two, three, four and five years. Size 4 requires 1% yards of 44-inch material for the waist and 2% yards for the trousers.

When Market Prices Come Down Our Prices to You Come Down at Once

When market prices go down, our prices to you are reduced at once. That's a Montgomery Ward policy. No matter what catalog you order from, our price to you'is always the lowest possible. This advertisement, taken from our latest Price Cutting Bargain Catalog, shows just one of its hundreds of money-saving opportunities. You may order from this ad if you like, or from your regular catalog. Always you get our very lowest price.







By G. D. McClaskey

RGANIZING boycotts on eggs is the popular method being em-ployed by women's clubs in vari-ous parts of the country in their

opinion on egg prices: At a hotel in a town where a poultry show was being held the editor listened a while to the learned comments on the "high price of eggs" by those seated at the break-fast table. They touched on the price of feed, and laughed at the poultryman who claims that because feed is high, eggs should be high. "Hens don't eat so much," they said. One suggested that the hen farmer was a profiteer in asking 75 cents a dozen for his eggs, because his hens ran all over the farm and picked up a living. "He does not have to feed them," he in-sisted. And a shudder of horror went round the table when another traveler said. "Eggs were a dollar a dozen in Toronto this week." "Nearly 10 cents apiece," elaculated a mathematically-inclined person who had just ordered two. It was then we sprung our conundrum: "When eggs are selling at 10 cents each, what is the price of roses?" One or two eyes twinkled as we rose from the table, They had caught on. The others are still thinking. I had just finished reading this item when my attention was called to a news-

women's clubs in several cities in organizing boycotts on eggs. I was thinking about this when I chanced to see an item from a Southern Missouri newspaper, as follows:

follows: The Ozark hen is now being called upon to help the European food situation, and "laid in Missouri" eggs are being shipped te Glasgow and Liverpool, the Ozarks con-tributing largely to shipments. One St. Louis commission firm contracted for six million eggs the other day and local ship-pers have been asked to help fill the con-tract. This is the first time such a con-tract has been made so far inland, foreign trade depending on eastern markets here-tofore.

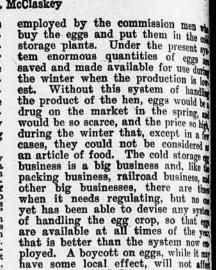
tract has been made so far inland, foreign trade depending on eastern markets here-tofore. In addition to the home demand for eggs, eggs are moving for export, shipments hav-ing been made the last month to Europe. It is definitely reported in the trade that one large house is storing for shipment on an order to Europe In the near future a total of 300,000 cases of eggs. Of this total, 100,000 cases are being put away in New York, 100,000 in Chicago, 50,000 in Detroit and 50,000 in Lincoin, Nebraska. This should serve to show that the demand for eggs is probably greater than it ever was before, while we do not have the source of supply that we have had

the source of supply that we have had in other years. There is a slight increase in the number of hens in the country over the number last year, but not as many as were on farms and in the poul-

mand exists for any product the price mand exists for any product the price will go up. Eggs are higher in price this spring than they have ever been at this time of year, but the demand for eggs is heavier than ever before. The price of eggs, however, is not out of proportion with the prices of every-thing else.

thing else. Not many persons accuse the produc-Not many persons accuse the produc-ers of getting too much for eggs, but the commission men and cold storage men are constantly being flaved for rob-bing the people. If a commission man or a cold storage man is successful and makes money, he is accused of robbing the farmer and of robbing the dear peo-pla-in other words he is accused of ple-in other words he is accused of working both ends from the middle, and is a crook and not fit to associate with decent people. But if a merchant who deals in women's wearing apparel and caters to the class of women-those same women who are most active in club affairs and boycotts--who wear expensive things that are not necessary for bodily comfort, amasses a fortune, he is much to be admired.

have been put forth by poultry breeders to produce better laying hens—hens that will be efficient winter egg producers it still remains that the great volume of eggs is produced during the spring months, and thus far no system of utilizing all of the spring output of eggs has been devised other than that now ************



May 10, 1

the price as a whole. The cost of distributing eggs is qui an item, often amounting to more the the producer receives for the product but no one yet has presented any pa whereby this distribution cost can be lowered. Some weeks ago Food Can missioner Ladd of North Dakota stat missioner Ladd of North Dakota state that 69 per cent of the final selling pra of a dozen eggs goes to the cost of de tribution. If a dozen eggs sold for a dollar, 69 cents would have been spat for distribution. Mr. Ladd found that the distributing cost of oranges is at 20.2 per cont 20.3 per cent.

"The orange growers of Florida a California are organized," he said. "To advertise extensively. They have but advertise extensively. They have but up a national demand for their fmi and it is having a bigger sale today the it ever had before. Experts have fr ured that distributing these oranges not half so expensive as distributing product that is not advertised at all." I gather from this that Mr. Lad thinks that if egg producers organized and advertised their product, greater consumption of eggs would real and the distribution cost would be lowered. I am in favor of some poultry organ. I am in favor of some poultry organ. ization putting on an advertising campaign for the purpose of educating the public as to the real food value of cgrpublic as to the real food value of eggs When the food value of eggs is known universally, consumption of the produc will take care of itself, and egg by cotts will be a thing of the past, re gardless of the price of eggs. But of producers cannot organize as have it organce growers for the mean that of orange growers, for the reason that a orange growers, for the reason that a anges are grown in quantities in an two states, whereas eggs are product in almost every nook and corner of a United States. Community product of one grade and color of eggs and com-munity marketing is the best solution advanced thus far in the interests of the producers. In the interests of the consumer, a shorter route from product to consumer by eliminating some of the to consumer by eliminating some of the handling under the present system of distribution distribution would give the consume better eggs, but it is doubtful whether it would mean a reduction in price. At the present time the present time many consumers poly more than the market price, and an glad to do it, for strictly fresh eggs that come to their homes direct from the producers.

profit that the producer may be getting if they will produce their own eggs. The following item, touching upon this ref thing, appeared in one of the big dy dailies not long ago.

WHITE ROCK EGGS, \$5 PER HUN-dred. Nora Lamaster, Hallowell, Kansas. 100 BUFF ROCK EGGS, \$6.50; FIFTY, \$3.75. Maggie E. Stevens, Humboldt, Kan. WHITE ROCK CHICKS, 15c; EGGS, 100, \$5. Mrs. J. W. Hoornbeck, Winfield, Kan.

PLYMOUTH ROCKS.

12

BEAUTIFULLY MARKED "RINGLET" Barred Rocks. Eggs, fifteen, \$1.75; hun-ired, \$8. S. R. Blackwelder, Isabel, Kan. BRED TO LAY BARRED ROCK EGGS, fifteen, \$3. Mrs. Mattie Gillespie, Elk City, Kansas.

PURE-BRED BARRED ROCK EGGS— Pens, \$3 a setting. Mrs. Schlosser, Steele Farm, Falls City, Nebraska.

SINGLE COMB WHITE ROCK EGGS-\$1.50, fifteen; \$5 hundred. Joseph Surdez, Route 2, Onaga, Kansas.

BUFF ROCKS — SEVENTEEN YEARS successful breeding. Eggs, \$3.50 per fifty, \$6.50 per hundred. Mrs. Homer Davis, Wal-ton, Kansas.

FINE BARRED ROCKS, HEN HATCHED, farm range. Eggs, fifteen, \$1; 100, \$6, pre-paid. Mary Rodgers, Route 1, Concordia, Kansas.

BRED-TO-LAY BARRED ROCK EGGS from the finest lot I ever raised. Setting, \$1.25; hundred, \$6. Guaranteed. Belmont Farm, Topeka, Kansas.

BUFF AND WHITE ROCKS-WON TWO first prizes at Topeka State Show. Eggs, \$1.50, fifteen; \$6 hundred. W. H. Beaver, St. John, Kansas.

BARRED ROCK EGGS FOR HATCHING -Light and dark matings. Good layers. Special matings, \$5 per fifteen; range, \$6 per hundred. C. C. Lindamood, Walton, Kansas.

IDEAL POULTRY FARM WILL SHIP ON day order is received 48 eggs postpaid from our famous barred to skin heavy laying strain Barred Rocks, for \$3, or \$7.50 for 144. Ideal Poultry Farm, Concordia, Kansas.

WHITE PLYMOUTH ROCKS, NO BET-ter anywhere. Have bred them exclusively for 26 years and are extra good layers. Eggs, \$3 per fifteen, from five pens; \$5 per fifteen from first pen. Expressage or parcels post prepaid. Thomas Owen, Route 7, Topeka, Kansas.

PURE-BRED BARRED PLYMOUTH Rock eggs from range-raised hens, fifteen years breeding, winter laying strain. Eggs guaranteed fresh and fertile, true to type, \$1.50 setting, \$7 hundred. Mrs. Jno. P. Reilly, Emmett, Kansas.

BIG BONED IVORY WHITE ROCKS, bred ten years, won five ribbons at 1918 state show and seventeen ribbons, including three firsts, in sweepstakes at Kansas State Fair. Farm range flock eggs, \$6 per hun-dred; select pens at \$2, \$3 and \$5 per fif-teen. Minnie Clark, Haven, Kansas.

TURKEYS.

NARRAGANSETT TURKEYS, STOCH and eggs for sale. Mrs. John Mitchell, La-fountain, Kansas.

ANCONAS.

SINGLE COMB ANCONAS, BEST STRAIN on earth, \$2 fifteen, \$3.50 thirty \$5 fifty. Delivered. C. W. Batten, Medford, Okla. WANTED-TO BUY.

RUNNER DUCKS WANTED—TOULOUSE goose eggs, 35c each. Emma Ahlstedt, Lindsborg, Kansas.

ORPINGTONS.

BUFF ORPINGTON EGGS — \$1.50, FIF-teen; \$6, 100, Toulouse geese eggs, 30c each, Ganders, \$4.50. No geese. Mrs. Frank Neel, Beverly, Kansas. SINGLE COMB BUFF ORPINGTONS, Martz strain. Eggs, \$1.50 fifteen, \$5 sixty, \$7 hundred. Mrs. Olive Carter, Mankato, Kansas.

LEGHORNS.

L. B. RICKETTS, BREEDER OF EXHI bition and utility Single Comb White Leg horns, Greensburg, Kansas. SINGLE COMB BROWN LEGHORNS — Winners at the big shows. Eggs, \$6.50 per hundred. Wm. Roof, Maize, Kansas.

PURE-BRED ROSE COMB BROWN .eghorns. Eggs, \$7 hundred, prepaid. C. H. Lessor, Lincoln, Kansas.

EGGS-S. C. WHITE AND BROWN LEG-horn, fifteen, \$1.50; fifty, \$3.50; hundred, \$6. H. N. Holdeman, Meade, Kansas.

S. C. BROWN LEGHORN EGGS FOR atching. Extra quality. \$6 per hundred. frs. L. H. Hastings, Thayer, Kansas. B WHITE LEGHORN Young Yesterlaid strain. Eggs, 108 for \$5; chicks, 15c. Mrs. C. C. Cole, Levant, Kan.

ROSE COMB BROWN LEGHORN EGGS-\$5 per hundred; baby chicks, \$15 per hun-dred, \$25 200. Mrs. Den Barry, Wallace, Neb.

C. BROWN LEGHORNS, BRED 23 years; 222 to 266 egg lines. Eggs, fifteen, \$2: thirty, \$3; fifty, \$4; hundred, \$7. Gor-such, Stilwell, Kansas.

SINGLE COMB WHITE LEGHORNS-Chicks, 100, \$16; eggs, 100, \$8. It will pay you to buy from us. You'll know what you get, as we furnish photos of our breeders with order. Express prepaid. Bellevue Poultry Farm, Route 1, Scammon, Kan.

IF YOU WANT BEAUTY AND UTILITY, buy my S. C. White Leghorn eggs. Heavy layers and prize winners. Pure Ferris, \$3 per fifteen. Ferris cockerel with Barron hens, \$2 per fifteen. Fertility guaranteed, Miss Bessie E. Morrison, 514 South Ninth Street, Salina, Kansas.

RHODE ISLAND REDS.

Reliable Poultry Breeders

SINGLE COMB REDS-WRITE FOR CIR-cular. P. H. Thiel, Renwick, Iowa. PURE-BRED R. C. R. I. RED EGGS FOR hatching, \$1 per fifteen, \$5 per hundred. L. F. Hinson, Stockdale, Kansas.

PURE-BRED DARK SINGLE COMB RED eggs, \$1.50 fifteen, \$6 hundred. Edna Knise-ly, Talmage, Kansas.

SCORED DARK RED ROSE COMB cockerels, \$5 and \$10 each. Eggs, \$5 for fifteen; \$15 for fifty. Highland Farm, Hed-rick, Iowa.

SINGLE COMB RED EGGS - REALLY red, big boned laying type. One-fifty, fif-teen; seven dollars hundred. Mrs. Geo. M. Long, St. John, Kansas.

HATCHING EGGS—S. C. R. I. REDS OF the famous C. P. Scott's strain direct. Win-ners at the World's Fair and 200 egg strain at the American Egg Laying Contest at Leavenworth, Kansas, Flock range as they run, \$2.50 per fifteen eggs, \$6 per fifty; \$10 per hundred. Address Mrs. M. W. Scott, Prop. Edgewood Farm, Rte. 5, Topeka, Kan.

MINORCAS.

S. C. BLACK MINORCA EGGS FOR SET-ting. Extra layers. Eggs from pen birds, \$2 per fifteen eggs. Mrs. E. G. Tharp, Pro-tection, Kansas.

LANGSHANS.

BLACK LANGSHAN EGGS, 10c; CHICKS, 0c. Mrs. G. W. King, Solomon, Kansas. SCORED BIG BLACK LANGSHANS, laying strain, guaranteed. Cockerels, pul-lets, eggs. H. Osterfoss, Hedrick, Iowa.

WYANDOTTES.

SILVER WYANDOTTE EGGS-FIFTEEN, \$1.75; fifty, \$4; hundred, \$7. Mrsr Edwin Shuff, Plevna, Kansas.

EGGS FROM MY PRIZE WINNING RE-gal White Wyandottes, \$1.50 per fifteen. Mrs. Gomer T. Davies, Concordia, Kansas.

ROSE COMB BUFF WYANDOTTE EGGS for hatching, \$1 for fifteen. G. G. Wright, Langdon, Kansas.

PURE-BRED WHITE WYANDOTTE eggs, fifteen, \$1.25; hundred, \$6. Effle Acheson, Palco, Kansas.

EGGS FROM CHOICE SILVER LACED Wyandottes, \$1.50 per fifteen, \$5 per fifty, \$7 per hundred. Mrs. C. D. Banks, York, Nebraska.

DUCKS AND GEESE.

EGGS—BUFF ORPINGTON DUCKS AND Quality White Rocks. Mrs. Chas. Snyder, Effingham, Kansas.

POULTRY WANTED.

BROILERS HIGHER NOW THAN later. Ship immediately. Good demand other poultry. Coops loaned free. The Copes, Topeka.

Poultry Culling Successful

That the experienced poultryman can readily determine which hens are lay-ing and which are the drones, is evident to hundreds of farmers who have witnessed culling demonstrations through-out Missouri this last winter. This dem-onstration is typical of results:

At the Greenwood farms, Jasper County, T. S. Townsley, poultry exten-sion specialist of the Missouri College of Agriculture, judged a flock of hens. Out of 133 hens, 43 were rejected as loafers. The pens were kept separated for seven days following the demonstration. No eggs were laid by the 43 hens culled out, and the 90 hens left laid 16 eggs more than the entire flock had laid during the seven days preceding the dem-

onstration. What Mr. Townsley did at that dem-onstration can be done by every poultryman if he will learn the simple methods these demonstrators are ready to teach. Reducing the poultry flock in the fall to include only the layers reduces the food cost of the eggs considerably.

Both eggs and poultry are higher than they were this time last year. More than 500,000 cases of eggs have been exported since January 1, against little more than 100,000 for all of last year. There is indication that eggs will continue high throughout the year.

The old hen sat in a leafless tree and said: "Nobody cares for me. My food is what I find about, I hunt for it till I'm frazzled out. My owner says I do not pay, and that I ought to sing and lay. I wish he had to sit out here and live on pickin's all the year. I'll bet a half a cent, by jing, he wouldn't lay from now till spring."

United States exports of condensed milk increased from sixteen million pounds in 1914 to 350 million in 1918. War had a good deal to do with this, of course, but indications point to a continued large demand in Europe for American dairy products.

blind and aimless efforts to reduce prices. Definite and painstaking inves-tigations into the conditions of production and marketing would be far more fruitful of permanent results. The fol-lowing item from a Canadian poultry journal is indicative of the prevailing opinion on egg prices:

when my attention was called to a newspaper report of the actions taken by

many as were on farms and in the poul-try breeders' yards prior to 1918. You cannot get away from the law of supply and demand as a factor in governing prices. You may disregard the cost of production as having any-thing to do with the selling price, but rest assured that when an unusual de-mand exists for any product the price

Notwithstanding all the efforts that



whatever the cost of distributing egs consumers who are now boycotting egs can save this cost and can also save and can be getting

dailies not long ago: The cost of living is high, for one result ecause so many of our people became at The cost of living is high, for because is because so many of our people because is hens' nests and too squeamient iely with hens with sorchead. If every family on in receipt of six eggs a day from its poultry yard, the cost of living would av like a deflated balloon. The cost of living is high because due general tendency of the world to let define do the work. With only 10 berd eard cant bidding for the surplus, and are industries and as it isn't so much a problem in industry-regular distance. The foregoing is rather significant but let us consider the price of eggs as



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DR. HESS nstant Louse Killer Kills Lice on Poultry and Stock

Use it on your lousy hens and chicks—your lousy colts, horses and cattle. You'll get better chicks-bigger, better fowls-more eggs-better contented stock.

Chicks are apt to be lousy now. Give them a chance. Sprinkle Louse Killer into the feathers, about the coops, on roosts, in nests of lay-ing and setting hens. Always keep Louse Killer in the dust bath. For lousy horses and cattle, colts and calves, stroke the hair the wrong way and sift in Louse Killer.

We authorize dealers to return your money if it does not do as claimed. 1 lb. 30c, 21/2 lbs. 60e (except in Canada)

Dr. HESS & CLARK Ashland, Ohio NSTANT NISE KILLE es th **HTLE ONES** Here it is-the one sure, safe, scientific chick feed. The feed that brings 'em through the first two weeks-the.critical period. Don't permit roup, dysentery and other diseases to kill off your chicks when for a few ceits you can keep them well. You will lose hardly more than 5 or 10 chicks out of every hundred - if - right from the start - you will feed TTO WEISS CHICK FEED chicks. A natural food, pre-ity raisers who know how to and grit. A pound feeds 50 chicks one week Ask your dealer for it. THE OTTO WEISS COMPANY Winhtte TO WEISS ICK FEED 691 Wichits, Kan. Pann Tangenta



STATIONERY AT FACTORY PRICES Forty-five double sheets of high grade offset Writing Paper with your Initial lithographed on Writing Paper with your Initial lithographed on act sheet and thirty envelopes to match. Just pt 25 cents in an envelope and four cents in tamps and we will mail you this beautiful pack-ge of stationery. State what Initial you want. One trial will convince you that this is the way o buy your stationery. Direct from the factory and save all profit.

Anderson Stationery Manufacturing Go. Anderson, Indiana

Farmers throughout the United States the for movers in 1918 prices that the 72 per cent above those of 1914, ten the way began and similarly above in the var began, and similarly above former prices for other articles as lows: Harrows, 126 per cent; plows, per cent: tedders, 81 per cent; axes, per cent: tedders, 81 per cent; corn ives, 97 per cent; cream separators, per cent; hoes, 78 per cent; ten-lon milk cans, 133 per cent; milk as, 104 per cent; pitchforks, 85 per t; seythes, 60 per cent; shovels, 92 per tent. So reports the Bureau of per test.

Power machinery for cutting firewood ers a practical solution of the fuel blem on farms where wood is avail-

compared with the prices of a few other articles of food. The average price of eggs for the year 1913 was 34.5 cents a dozen; the average price for 1918 was 56.9 cents. In 1913 round steak averaged 22.3 cents, bacon 27 cents, butter 38.3 cents, milk 8.9 cents a quart and flour 3.3 cents a pound, and so on. In 1918 the average price of these same articles was, round steak 36.9 cents, bacon 52.9 cents, butter 57.7 cents, milk 13.9 cents and flour 6.7 cents. The question naturally arises, why the boy-cott on eggs, when the price of eggs is not out of line with the price of every other article of food? Eggs always "get theirs" first, yet there is no substitute

GRANGE NOTES

for an egg.

The Grange asked that the farmer be represented on the different boards and commissions that the Governor appoints and sent a letter to him asking for such representation on each board. No names were suggested, but the State Master, Mr. Needham, asked that a real farmer be on each of the boards. Thus far we have 0.

In the appointment on the State High-way Commission the Grange fully ex-pected the farmers to be represented. The road from the farm home to town is a question very near to the farmer. just as anxious about it as the suburban dweller of the city is that his house be linked to town with a side-walk. Yet the farmer is ignored in this place and a city man appointed. The city man cannot appreciate the sit-uation of the farmer in the road mat-ter. He feels that we need good roads for the car, but the country dweller is just as anxious to have good roads so that he can get to town. The city is not included in the benefit district; the building of a country highway is not building of a country highway is not building a road for ingress and egress to and from the city man's premises; the burden of taxes is not on him; yet the full commission is composed of those whom the road will least benefit and who will pay the least part of building it.

In building roads-even hard-surfaced -grades should be established and built and allowed to settle at least two years before any hard surface material like concrete or brick should be applied. The settling of grades will cause concrete to crack and break. A new grade is a bad place on which to establish a perma-nent improvement, for the foundation is soft and spongy and will give way to moisture and freezing and thawing.

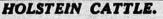
In the East, where the hard-surfaced roads are being built, the foundation has been laid for years. In Ohio and other states the old toll gate system, where tolls were paid at different stawhere tolls were paid at different sta-tions along the road, has furnished a fund which has paved the roads with rock and gravel. This process has been going on for over fifty years and now they can build miles and miles of road without the initial preparation of mak-ing a bed. Yet the concrete and expen-sive surfacing is unpopular with the farmers of the East. farmers of the East.

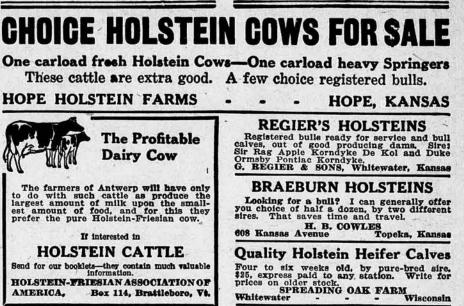
Bridges should be built and approaches made long before an unelastic surface is laid across it. The settling process is done best and cheapest by Nature, and it takes time. Approaches and fills should be built independent of a hard-surface contract and allowed plenty of time to settle.

Pour cement on a fresh approach and it will have to be renewed in a short time. All these preparations should be made before a hard-surface contract should be considered. The Grange pol-icy, to pay as you go, will build roads as fast as they should be built for service.

Organized labor was able to have nine points inserted in the League of Na-tions constitution. Where was the farmer? Lack of constructive organiza-tion and co-operative efforts prevented the farmers from being heard at the great event, and the demands of agri-culture will have to come later when the former realizes that he must occur the farmer realizes that he must organize. The Grange represents over a mil-lion farmers of this country and is es-tablished in thirty-three states, yet with this influential number the Grange was not able to make an impression that would allow American agriculture to have an influential hearing at Paris.







HOLSTEIN-FRIESIAN ASSOCIATION OF AMERICA. Box 114, Brattleboro, Vt.



We are offering a choice selection of both registered and high grade springer cows and heifers. Also pure-bred bulls and young females. All reasonably priced. Come and see them or write.

T. R. Maurer & Co. KANSAS EMPORIA

GOLDEN BELT HOLSTEIN HEED Herd headed by Sir Korndyke Bess 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

CHOICE HOLSTEIN CALVES 12 Heifers and 2 Bulls, highly bred, beau-tifully marked, and from heavy producing dams, at \$25 each, crated for shipment any-where. Safe delivery guaranteed. Write FERNWOOD FARM, WAUWATOSA, WIS.

BUTTER-BRED HOLSTEINS Three choice registered Holstein bulls, ady for light service, and some bred eifers to a 32-pound sire. **P. MAST.** - SCHANTON, KANSAS

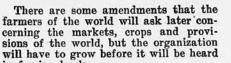
AUCTIONEERS.

LIVE STOCK AUCTIONEER Sales made anywhere. Price reasonable. I breed Duroc hogs and Jersey cattle. Write H. GRABLE - - AGENCY, MISSOURI LIVE STOCK AUCTIONEER — Fifteen years' experience. Wire for date. JOHN D. SNYDER, HUTCHINSON, KAN.

POLAND CHINAS

Faukner's Famous Spotted Polands **fhe World's Greatest Pork Hog** Now booking orders for spring pigs. Shipment when weaned. Pairs or trios, no kin.

H. L. FAULKNER, Box K, Jamesport, Missouri



in foreign lands. ERNEST MCCLURE, Greeley.

Prune Shrubs After Blooming Such shrubs as bridal wreath, golden bell, Japanese quince, lilac and syringa should be kept to a desirable height and habit of growth by judicious pruning. If pruned before blossoming time, however, many flower buds will be cut off. The best time for pruning is after they have bloomed, cutting out the oldest most branched shoots so as to retain the long, willowy growth. Pruning at this time prevents the plant from wasting its vitality in producing seed. It also gives time for the growth of long shoots which will bear flowers the fol-lowing year.

If necessary to prevent shrubs from growing taller than one wishes, they may be pruned at any time during the summer. This will produce a more bushy growth.

Benjamin Franklin said: "Waste neither time nor money, but make the best use of both." Buy W. S. S. **POLAND CHINAS.**

ERHART'S POLAND CHINAS Have a few bred sows and bred gilts priced reasonable. All immuned. Several fall boars ready for service. Write your wants.



CHOICE LOT OF POLAND CHINA BRED SOWS AND GILTS FOR SALE. A Few Fall Pigs. CHAS. E. GREENE Townview Farm Peabody, Kansas

POLAND CHINA PIGS 85 Spring Pigs, Pairs and Trios, \$35 each, three for \$100. Shipped at weaning time, pedigree furnished. Mostly by Captain Bob by Caldwell's Big Bob and Wonder King. Also three herd boars for sale. Write your wants or come and see my herd. Frank L. Downie

R. F. D. 4 Hutchinson, Kansas

THOMPSON'S POLAND CHINAS A few extra good boars, also a few open glits, well spotted, good length and plenty of bone, with quality. JAS. A. THOMPSON - HOLT, MISSOURI

LANGFORD'S SPOTTED POLANDS Bred gilts, tried sows, herd boar prospects. T. T. Langford & Sons, Jamesport, Missouri

ANGUS CATTLE

Dietrich's Aberdeen-Angus Aged bulls, fifteen choice spring bulls, Females, all ages, GEO. A. DISTRICH, CARBONDALE, KAN.

HOLSTEIN CATTLE.

Holstein Calves

Extra choice, beautifully marked, high-grade calves from heavy milking dams, either sex. Write us for prices and descrip-tion.

W. C. Kenyon & Sons Holstein Stock Farms, Box 33, Elgin, Illinois

SEGRIST & STEPHENSON, WOLTON, KANSAS Breeders exclusively of pure-bred prize-winning record-breaking Holsteins. Correspondence solicited.

AYRSHIRE CATTLE.

Ayrshire Calves Bull and heifer, pure bred, out of high-producing cows. Bull, \$75; heifer, \$50, for guick sale. H. L. Michaells, Kinsley, Kansas,

HAMPSHIRE HOGS

Registered Hampshire Hogs—Sows and Spring Gilts, bred or open. Choice spring boars. Dou-ble treated. Geo. W. Els, Valley Falls. Kansas

GUERNSEY CATTLE.

FOR SALE Guernsey Herd for Sale — All Registered, Some Imported A. R. 'All or any part of fifteen (15) head, con-sisting of six heifers ranging from six weeks to two years; five cows; four bulls from six months to six years old. Will make this especially attractive to parties desiring the whole herd.

whole herd. GUERNSEYDALE FARM, OTTAWA, KAN.

GALLOWAY CATTLE.

Registered Galloway Bulls

For Sale—Twelve head 2-year-old bulls, blg strong fellows, ready to use. Eight head yearlings. Write at once.

Shive Bros., Burrton, Kansas



CENTRAL KANSAS JERSEY CLUB SALE

At White City, Kansas, May 31, 1919

FORTY-FIVE HEAD OF HIGH CLASS JERSEYS, CONSIGNED BY THE WELL KNOWN JERSEY BREEDERS.

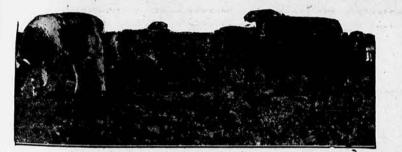
Twenty Head, J. A. Comp & Son, White City, Kansas; eight cows with Register of Merit records and real show type; six young heifers from high testing cows, and four young bulls five to six months old. Splendid prospects for herd bulls, sired by a double line bred Owl Interest bull and Torono Raleigh and Financial King bred bull. M. A. Tatlow's Consignment consists of fifteen head of young cows and heifers, one two-year-old bull and two young bull calves. The two-year-old bull is closely related to the cow that holds the S. R. record of Kansas for milk and butter fat.

and butter fat. Walter Tatlow and Gladys Tatlow are each consigning one young cow. Mr. Tatlow is selling his entire herd and will leave the farm. Mr. H. M. Pierce is consigning three splendid cows, one senior yearling heifer and one two-year-old, a double line-bred Owl Interest. Sale held under cover, rain or shine. Please write to B. C. Settles, Palmyra, Missouri, for catalog, and come to sale.

THE BEST LOT OF REAL PRODUCING JERSEYS it has been my pleasure to see catalogued for a sale in years. No one will be disap-pointed sale day.—(Signed) O. W. DEVINE.

The Central Kansas Jersey Breeders' Ass'n. J. A. COMP, PRESIDENT M. A. TATLOW, SECRETARY AUCTIONEER-JAS. T. McCULLOUGH

Jefferson County Improved Breeders' Sale of Shorthorns FORTY HEAD OF SHORTHORNS 25 Cows and Heifers and 15 Serviceable Bulls Valley Falls, Kansas, May 22, 1919



This offering will be consigned from the following herds of well bred Shorthorn cattle: Marks Lodge Herd, Valley Falls, Kansas;

Adam Becker & Son, Meriden, Kansas; Geo. Ely, Valley Falls, Kansas; Mitchell Bros., Valley Falls, Kansas; Frank Gragg, Denison, Kansas; R. B. Keys, Valley Falls, Kansas.

We are offering a useful lot of cows and heifers that any farmer or breeder can realize a nice profit on with a little care. The cattle are not fat, but in good condition.

Please Send for Catalog and Come to Our Sale

Jas. H. Mitchell, Manager Valley Falls, Kansas

Auctioneer-Frank Brake, Valley Falls, Kansas

Soll H: Sell film Now:

If you have a pure-bred bull, boar or other breeding animal that you cannot use in your own herd another season, why not sell him now? There are always buyers looking for pure-bred sires. Their trouble is to find a good animal. Your cue is to tell them where to find him, through the Classified Columns of



Diversified Farming Safe The records of O. S. Rayner, of the farm management department of the Colorado Agricultural College, show that the man who attempts to raise only wheat or nothing but beans or al-falfa is putting all his eggs in one basket.

The difference between this and a diversified type of farming is illustrated from records of farms in the same com-

from records of farms in the same com-munity of the state. Twelve farmers made an average la-bor income of \$1,921. Their average re-ceipts were: Alfalfa, \$1,546; beets, \$1,996; live stock, \$629; grain and beans, \$250. These men were all well protected because if alfalfa failed they had beets and live stock to fall back on The same can be said of other crons The same can be said of other crops on. and live stock.

and live stock. But a farmer in that community with practically the same acreage in crops made only \$750. He received \$3,075 from alfalfa, \$195 from grain and beans, and \$69 from live stock. He had only one main source of income. The other twelve men had three. What if his alfalfa had partly or entirely failed? Or suppose labor had been so scarce that he would have had to do all the work Or suppose labor had been so scarce that he would have had to do all the work himself? Last year in parts of Colo-rado, wheat was left in the field be-cause of a scarcity of labor at harvest time. Other men had to pay so much for labor that there was little or no profit left for the farmer

profit left for the farmer. The records from ninety-one farms in this community show that the average income of all that had only one source of income of over \$400 was \$437, comof income of over \$400 was \$437, com-pared with \$998 for those which had two sources of income, and \$1,302 for those with three. In other words, a cash re-ceipt of \$1,200 from one crop will not leave as much net profit to the farmer as will \$1,200 from three different sources of \$400 each. In the latter case the cash-expenses are much less. It is only a justification of the old

It is only a justification of the old saying, "Don't put all your eggs in one basket."

The Herd Bull

You often hear the expression, "The bull is half the herd," and pass it by without consideration. After a good many years of hard practical experience and close observation in my own case I want to fix your attention on this ex-pression and thereby add both profit and pleasure to your stock farming. Nothing in nature stands still; every-thing continuously goes forward or backward. Every herd of cattle is con-stantly building up or going down; not one is the same grade this generation it was the last and it will change again

it was the last and it will change again the next, and the principal factor in these changes is the herd bull. The simple, the easy, and the eco-nomical way to build up a herd is through the herd bull and the simple and easy way to run it down is through the herd bull; for while your bunch of related being of way calves have numerous mothers of vari-

ous dispositions and types, your herd bull is the father of all your caives and his type is permanently stamped on every one of them. You may accept the SEP following as axioms: That if your herd bull is better than your herd of cows your crop of calves will average better than their mothers, and if your herd bull is inferior to your herd of cows your crop of calves will average inferior to their mothers and that by whatever per cent your herd bull is better than or inferior to your herd of cows, by that much will your crop of calves be better than or inferior to their mothers. Now, if you would build up your herd

better than or inferior to their mothers. Now, if you would build up your herd rapidly and thereby accomplish some-thing that will pay you handsome divi-dends and at the same time be fasci-nating for you to watch from year to year, fix in your mind the type of herd you would like to own; then painstak-ingly select a herd bull of that type that is an outstanding individual him-self and that is sired by a high class bull also. The percentage of outstand-ing bulls produced in even the best herds is comparatively small and each one of them is worth in building up a herd more than all the mediocre bulls you could put on your farm and you should be pre-pared and willing to pay a living and reasonable price for the high class bull; but the first crop of calves from a herd of twenty five median but the first crop of calves from a herd of twenty-five medium cows and an outstanding bull will pay the total purchase price of this bull over and above what the same bunch of calves sired by a mediocre bull would be worth.

mediocre bull would be worth. No big success has ever been medie by a breeder who did not use outstand-ing herd bulls; the better the bull, the more rapid the success, all other things being equal. Stamp indelibly on your mind that your herd bull represents either eventual success or discourage-ment to you in cattle breeding.—E. H. HARBISON, Pilot Stock Farm, North Car-olina. olina.

Butter Shortage in Paris

In 1912 the daily average amount of butter reaching Paris was 121,000 pounds. During the first week of Feb-ruary, 1919, it was 55,000 pounds, or less than half the pre-war receipts. A French investigator sent to one of the large dairying provinces—Normandy— reported that the shortage was caused by the slaughter of cows for meat, which by the slaughter of cows for meat, which brings relatively higher prices than milk.

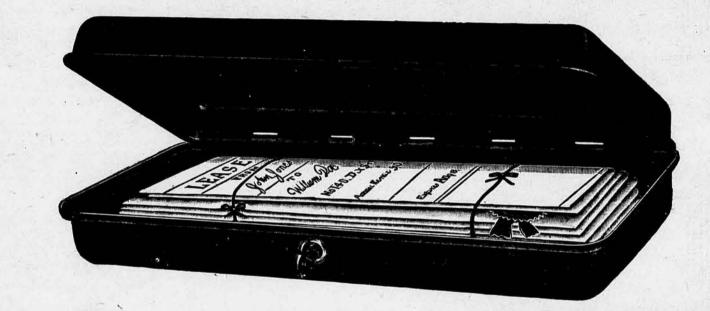
According to the investigator a quart of milk cost about 6 cents before the war and 17 cents at the time of the war and 17 cents at the time of the investigation. Before the war an eight-day-old calf brought about \$5.80 whereas now it will sell for \$29. The previous price of a eow was about \$58, but at present it is approximately \$232. These prices had led to the killing of dairy cows, thus lessening the milk supply. To counteract this tendency, it has been proposed to import a large supply of meat and probibit the slaughter of dairy. cattle.

lay 10, 1919

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