VOL. CXXXIV. No. 10. Whole Number 3493.

#### DETROIT MICH., SATURDAY, MARCH 5, 1910.

75 CENTS A YEAR \$1.50 THREE YEARS

#### FARM NOTES,

Forage Crops for the Hogs,

animal becomes of more than ordinary importance, but the hog is always of more farmers in Michigan than any other kind of live stock. Yet a good many farmers have gotten the idea that with at the high range of values which have prevailed for hogs. However, there are that there is not a good profit in hogs at nine cents or above on the farm and followed out in arrangements of this kind with hogs at this price now, with a pros- but, as above noted, the details of such do with a piece of sandy land, in fact, a limited pig crop next spring and an agreement are often varied materially hill of quite light sand; have had best a limited extent in various parts of this country for the purpose at nine cents or above on the farm and

at an unusually low point, there is no question that pork values will continue high thruout the coming year and probably for several seasons to come. But grains will also continue at a high average price and in order to get the most from the hogs grown upon farm, preparation should made for adequate forage crops to help in growing them. Where a field of clover is conveniently located, it will pay to divide a portion of it into small lots with wire fencing and house the pigs in portable houses in these lots so that the greatest possible growth can be secured from this clover. Then every farmer has, or should have. some small lots about the barn for a convenient run for the hog and other live stock. Too often these are not utilized to the best advantage and, under present conditions, it would certainly be the part of wisdom to get them into some forage crop that would make a maximum of feed for the pigs during the summer Two crops that are particularly adapted to this purpose are rape and peas. If two small lots located near the farm buildings are sown to these crops early in the

spring, they will make an abundance of profitable abundance of profitable
forage for the hogs during the summer in individual cases, since no general rule
season when pasturage is generally poor,
especially for this kind of stock. Experiments and practical experience of hog
breeders and feeders shows that the cost
breeders and feeders shows that the cost
to use is the size that went thru a 1% to use is the size that went thru a 1% to use is the size that went thru a 1% to use is the size that went thru a 1% to use is the size that went thru a 1% to use is the size that went thru a 1% to use is the size that went thru a 1% to use is the size that went thru a 1% to use is the size that went thru a 1% to use is the size that went thru a 1% to use is the size that went thru a 1% the size columns.

Concrete as Building Material.

Label in these columns. where plenty of good forage is provided for the pigs, and this is a factor in pig production which should not be neglected upon any farm the coming season.

A Basis for Renting Farms.

A Basis for Renting Farms.

Is it customary in renting a farm at halves, for the owner to furnish half of ail stock, sheep, swine, etc.? Also, to furnish half of all seed used, pay half of the threshing bill, in fact, furnish half of everything, like all farming implements and everything else, and then receive half of the income from everything raised and sold off of the farm after enough has been kept on the farm to feed all stock? If feed has to be bot to winter such stock is it the duty of the owner to pay half of that? If there is anything else to do, to enter into such an agreement will you

With hogs selling around the 10 cent According to time-honored custom, in However, when potatoes are cheap as a good crep to sow in an orchard on this mark in the markets of the country, this an arrangement of this kind the land is they are the present year, it is doubtful kind of land as it makes an excellent hog supposed to draw one-third of its product, the labor required in conducting the importance upon the farm and, from an farming operations, another third, and the ably more potatoes than the market will not as easily started and established as economic standpoint, is of interest to capital invested in equipment, seed and take at a fair price and it would seem to the clover crop upon many farms. fixed incidental expenses such as threshhas ever been a general basis for renting the extremely high values for grain which land, all kinds of arrangements have been have prevailed in recent years, there is made as between landlord and tenant, de-not much money in pork production even pending upon local conditions affecting each individual case and the desire of few, if any, farmers who would contend ship. Generally speaking, the conditions would be suffered by the growers as a named in this inquiry are quite generally followed out in arrangements of this kind

if in the long run it will pay to use these little potatoes for seed. There are probbe the season when every potato grower ing, etc., another third. But while this ought to use large, or at least fair sized potatoes for seed, and feed the little ones to their live stock. This would eliminate a large amount of potatoes from the market in the aggregate, and it is quite likely that the balance would be taken at a either or both to perpetuate the relation- sufficiently better price so that no loss whole, from this method of procedure.

Alfalfa Questions.

please outline the correct plan and then off the seed end of seed potatoes, as even the soil, it would undoubtedly be much publish in your valued paper at your ear- when planted whole only the most vigor- easier to get a stand of alfalfa and better Montcalm Co.

J. H. H. ous sprouts will grow and make stalks. crops would be secured. Alfalfa would be pasture and would be fairly permanent when once established. It is, however,

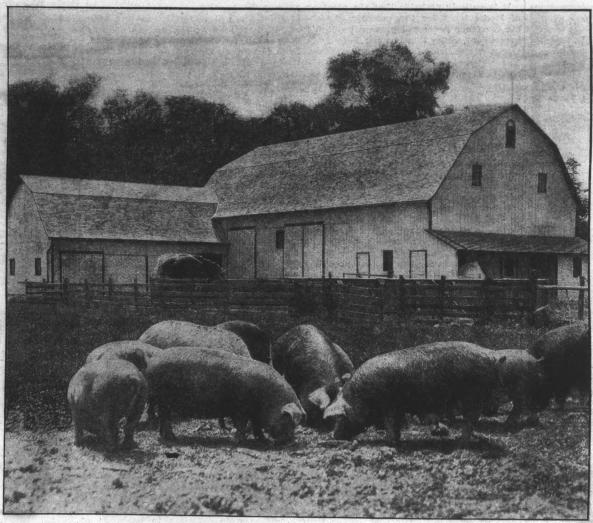
Sand Vetch.

Would like to have you advise me thru Michigan Farmer in regard to sowing sand vetch. If I sow it this spring can I cut a crop of hay from it this summer or does it have to be sowed in the fall? If cut for hay will it make fall pasture? Perhaps you can suggest some other crop for hav. Soil is sandy loam, but badly run. I expect to sow to oats and seed it following spring and so bring it into a three-year rotation.

Newaygo Co.

Sand or hairy vetch is grown extensions.

country for the purpose of renovating poor soils. It is a legume and will thrive on poor soils, but has some disadvantages. one of which is that it is inclined to become a weed where it goes to seed and the seeds are scattered upon the ground. It may be sown either in the spring or fall at the rate of about one bushel per acre. If to be cut for hay, oats or other grain should be sown with it to support the vines, which are difficult to harvest when sown alone on account of their trailing habits of growth. land where this legume has never been grown, it may be necessary to inoculate the seed or soil with the proper bacteria, as is sometimes the case with alfalfa. The seed is somewhat expensive and, everything considered, it has not found much favor where tried among Michigan farmers, except in a few localities. For a main dependence where some crop is to be sown for hay, probably oats and peas are better than some crop new to the locality and the farmer who grows them. Cowpeas and soy beans may serve a useful purpose in this connection, but one should experiment with them on a small scale at first, which is a safe plan to follow with any new



The Hog Looms Up Big in the Farmyard where Provision has Been Made for a Good Pig Crop.

How would you advise preparing small potatoes for seed? The seed I am going to use is the size that went thru a 1% inch mesh, and over a 1½ inch mesh. They were grown from large potatoes last year, and will be planted on a new piece of ground this year, the soil being a heavy loam. Some say cut in two; others say cut off seed end, and others say plant the potato whole.

Newaygo Co. W. G. A.

If potatoes of this size are to be planted

it would, under average conditions, be

As has been stated in these columns, alfalfa may be made a successful crop upon almost any kind of soil which is well drained as high sandy land is naturally well drained. Alfalfa can be grown Newaygo Co. W. G. A. upon it provided it is in a fertile condi-If potatoes of this size are to be planted tion. The fact that beans have grown well upon this land is an indication that better to plant them whole than to cut it is adapted to leguminous crops. By ferthem at all. If they are cut even once in tilizing liberally and sowing without a

I have in view the building of a cement of shed, cement clear to the rafters, I have in view the building of a cement tool shed, cement clear to the rafters, with a fire-proof roof and fire-proof doors. This building will be close to barn and other buildings. Now, I would like to know whether a cement tool shed will sweat and rust the tools.

Huron Co. G. M. C.
There seems to be a rather general

misunderstanding regarding the characteristics of concrete and its fitness for a building material for farm use. There two the pieces will be so small that in a nurse crop, you might get a good stand will be no more moisture in a concrete dry season there will be danger that they of alfalfa. If it is not in a fertile condition shed than in one made of lumber. will not grow and, in any event, they will tion at present, probably the cowpeas The concrete will not "sweat," as sugnot push the plant along vigorously from might be a better crop to grow upon it gested by this inquirer. Doubtless this the start. Experience has demonstrated If a crop of cowpeas were grown for idea that concrete attracts moisture is the fact that nothing is gained by cutting green manure to add to the fertility of due to the fact that where stock is con-

### THE MICHIGAN FARMER.

### Big Profits from Cheap Lands in Eastern Colorado

Eastern Colorado-the wonderful cattle country, great because of great crops of nutritious grasses and fine water. Better results are obtained in the feed-lots of Eastern Colorado than from any other district.

The best and strongest horses are raised solely on native grasses without prepared food, and bring fancy prices for cavalry purposes and general use.

Conditions are ideal for sheep raising. Mild winters—plenty of sunshine—abundant pure water, rich grasses, alfalfa, cow peas, kaffir corn, broom corn, milo

maize and cane through all the year.

Hogs thrive—no cholera or other diseases that attack swine in lower altitudes.

Hogs raised on alfalfa, fattened on corn raised on the same farm, cost \$4 per head (including first cost of parent stock) and sell readily at top prices.

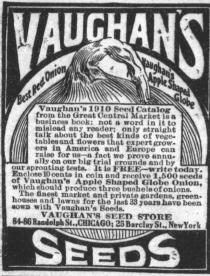
The climate of Eastern Colorado is the healthiest in the world for man and beast. Good churches, good schools and splendid markets.

Let me tell you more about Colorado and other sections along the Rock Island. I want to point you to success. Send me your address, tell me the kind of farming you prefer, and I will tell you about others who have quit paying rent and now are living in Rock

healthy happy homes of their own. Write today. Low rate Success Seekers' Excursions first and third Tuesdays of each month L. M. ALLEN, Passenger Traffic Manager 231 La Salle Station, Chicago

Island







fined in a poorly ventilated stable there Prof. Shaw's bulletin, when he probably will be either moisture or frost gathering wanted it to prove something else, viz. due to the fermentation of other mate- than that grade of cattle are worth torials, which sometimes occurs in a cellar day, either in Chicago or Detroit. grain is dry when put in. There need they can be raised in Michigan, and that be no hesitation on the part of any the same feed returns more money from farmer with regard to using concrete as the dairy cow. The actual facts as noted propensity to gathering moisture. Conimpervious to moisture, but may be made the whole state had-made its answer, as no such precaution would be necessary in the case of a tool shed. It is needed only in a silo, where it is necessary to be justifiable at the then range of prices exclude the air, or in a granary where it would be now is a wrong conclusion. is desirable to keep out any moisture which will not be likely to occur to a damaging extent in our climate, even 1909, several years afterward, must be where the walls are not water-proofed, read in the light of present costs and The fire-proof character of the construc- prices. tion proposed by this inquirer is certainly a strong argument for the use of concrete for this purpose.

Planting Locust Trees for Fence Posts. Planting Locust Trees for Fence Posts. Please let me know thru the columns of your valuable paper whether you think it a good plan to plant black locust trees for future use as fence posts, or not. A great number of farmers in this locality ordered some of the trees last fall, and now we hear so many bad things about them that we are a little afraid of planting them. We are told that they will spread from the roots and seed and that it is impossible to ever get rid of them where they have once started. Please write as much about them as you possibly can as I believe it will be of great interest to many farmers.

Tuscola Co.

Subscriber.

It is entirely probable that the planting

closely, as they will be under forest con- prices of 1909-10 are extortion, ditions, this tendency will not be so noticeable. Of course, they can be de- ing stock is offset by the manure is not stroyed the same as any other grubs only gratuitously offensive but also a repafter the crop is harvested, if that course etition of those who find it easier to echo is desirable. However, this tendency to than to analyze. When an animal is prosprout and produce a vigorous second duced on the farm there is abstracted

#### than less value for the purpose named. THE BUSINESS SIDE OF FARMING.

use of figures from College Bulletin ..o. soil and a credit item to the manure and 257, in the issue of February 19, I would the ,balance, representing the animal, say that there was no intention to criti- should be returned from the packing cise the bulletin. The matter in mind houses in the shape of commercial ferwas that high prices for farm products tilizer to maintain the balance with the were justifiable, under existing conditions debit side. This is actually what the given weight of animal at one year was Then the proposition to offset the farm-\$4.27 per hundred, as determined by care- er's labor by the manure, which has alful experiments at the Agricultural Col- ready been hypothecated to pay for ferlege. of cattle of similar weight was \$3.50@4 be called, in the language of the market per hundred. Farmers who sold in De- place, "flim-flamming" the farmer. As troit could get no more. Now, could long as there are range cattle to compete farmers produce calves at that price if with native cattle the price of the native it cost the Michigan Agricultural College animal cannot be advanced to cover soil \$4.27 per cwt. to produce an animal of losses since the government land is used similar weight when at the present time and soil depletion is not considered. cost of feeds is 25 per cent higher than the prices named in the bulletin. To have the bulletin. If experiments always regone farther into the bulletin would have sulted in what was preconceived they been irrelevant to the point at issue, would not be experiments, merely verifi-There are two schools of cow keepers, cations. Experiments are merely asking viz., those who keep the dairy cow and questions, and the answers received the others who raise beef. There were should be treated courteously. The peo-891,000 milch cows in Michigan Jan. 1, ple of Michigan have made experiments 1909, and 849,000 in 1908, while the aver- in beef cattle raising and set an excellent age price was \$1.00 per head more in example by accepting the answers re-1909. All other cattle, except milch cows, ceived gracefully. numbered, in 1909, 993,000 and in 1908, 1,003,000 head with no increase in price.

In the breeders' directory in the Michigan Farmer are 19 advertisements of ers' directory, was incidentally proven by paper.

upon the walls, depending upon tempera- that the farmer could profitably produce ture of the stable. The source of the beef. To further analyze the bulletin moisture, however, is not the concrete or would be to bring it to date and add 25 stone wall, but rather the condensation of per cent to the cost on account of the the moisture in the atmosphere resulting advanced cost of food, which would make from the breath of animals or the vapor the cost \$5.33 per cwt., which is more or a granary. But, as noted in a recent point, after passing the yearling stage issue, a concrete granary is a perfectly is that if there is a profit to be made in safe place to store grain, provided the feeding, stockers can be bot cheaper than a building material on account of any before have confirmed the view that calf raising for beef has not been profitable. crete, as ordinarily made, is not wholly If one were inclined to be critical after so by a cement wash where desired. But noted before, would be that to correlate a bulletin after the general advance of feed prices and expect that what might

Take lot 1 in the bulletin for example which might penetrate the walls, but Their finish in May, 1907, and the date of their doings in a bulletin of October,

The cost of western range cattle in Chicago feeding steers (see p. 46, year book of figures, Drovers' Journal), ranged as follows: 1905, \$2.70 to \$4.35; 1906, \$2.75 to \$4.60; 1907, \$2.75 to \$4.80; 1908 \$2.75 to \$4.70. During the same periods the average farm prices of corn went from 41.2 cents in 1905 to 60.6 cents in 1908. Oats during the same period went from 29.1 to 47.2 cents. Flaxseed, from which oil meal is made, went from 95 cents to 118.4 cents. Hay, as it happens, was lower in 1905 and 1908 than any of the periods intervening and was respectively \$8.52 and \$8.98 per ton.

The prices given of feed charged for It is entirely probable that the planting raising these calves is reported, and if of locust trees for the growing of tim- any farmer will undertake to buy bran ber for fence posts will prove a profitable at \$18, beet pulp at \$15, and oil cake at investment, altho this has not been posi- \$28 per ton, he will be sorely disappointed. tively demonstrated in a practical way. Prof. Shaw says that prices are now, with The writer has seen a considerable ac- the possible exception of two or three reage of locust trees planted on poor land, items, with'n the profitable range of of not much value for agricultural pur- farm production. It is such unfortunate poses, which have made a surprisingly expressions as this that leads to the logigood growth and promise well for the cal deduction that the present range of future. It is true that where planted in farm prices is excessively profitable, and the open these locusts will spread both that the farmers were making reasonable from the root and the seed which are profits at the range of prices (with two plentifully scattered, but where planted or three exceptions), of 1905, and the

The idea that a farmer's labor in raisgrowth from the stump is one which from the fertility of the soil all the anishould make this timber of greater rather mal has consumed. In selling the animal the price does not include this item. If there was absolutely no waste, the manure plus the animal would equal the abstracted soil elements. The actual Regarding Prof. Shaw's criticism of the book-keeping would be a debit item to the The cost of producing a farmer has to do to maintain fertility. Now, the selling price at Detroit tility-and then not quite enough, might

There is no criticism to be made of

Shiawassee Co. JAS. N. MCBRIDE.

FREE BOOK ABOUT CANCER.

The Leach Sanatorium, of Indianapolis, dairy animals and two of beef breeds. Ind., has published a book on cancer, The facts are that the farmers of Mich. which gives interesting facts about the igan have not found beef raising profit- cause of cancer; tells what to do in case able, or at least as profitable as dairying, of pain, bleeding, odor, etc., instructs in and instead of raising calves have pro- the care of the patient, and is in fact a duced milk and veal. The statistics valuable guide in the management of any above quoted and the relative prominence case. The book is sent free to those inof the dairy animal as seen in the breed- terested who write for it, mentioning this

### A Good Coat of White Lead Paint

wonders for your buildings and implements - protects them from the weather, makes them endure longer and gives them a higher selling value. When you paint with

### CARTER Strictly Pure

White Lead "The Lead With the Spread"

you have the satisfaction of knowing you are using the highest grade paint on the market.

Carter forms a tough, elastic and durable film, which contracts and ex-pands with the weather changes. Wears down gradually—only years of wear will remove it.

The superior whiteness of Carter proves its perfection. This whiteness indicates fineness of grain, which means beauty of finish, great spreading qualities and extreme durability.

Engage a good painter, request him to use Carter and you will be certain of durable painting—no cracking or peeling when Carter is used.

Send today for our valuable free book which tells how to test any paint for purity— how to choose a harmonious color scheme. A set of scheme. A set of beautiful color plates accompany the book. (7)

Carter White Lead Co. 12087 So. Peoria St., Chicago, Ill. Factories: Chicago-Omaha

"To Be Sure It's Pure, Lookfor **CARTER** on the Keg."



A great trial collection of farm seeds, composed of 18 pelize, a cereal and hay wonder. I stitute to Barley, capturing the world prize 7 Barley, capturing the world prize 7 Bus, per A. I ket. Bonanza Cats, a by Jour fine farms for biggest J. Bidion Dollar Grass, the Ten Ton

\$500.00 IN GOLD JOHN A. SALZER SEED CO. 12550. 8th St. La Crosso, Wis. Nome contest ends May 10th.

## SEED CORN

New Prosperity and all the best varieties of choice, selected, thoroughly tested seed corn, which have yielded immense crops. Costs only 40 cts. per acre for Seed. Large descriptive catalog of Seed Corn and all kinds of Farm and Garden Seed malled free. IOWA SEED COMPANY, Dept. 48, Des Moines, Iowa.

Grass Seeds

FOR ALL KINDS OF Clover and Field Seeds, ALSO A FULL LINE OF Garden Seeds & Implements. Write this old Reliable House Catalog Free and Price List of Grass and Field Seeds mailed

THE HENRY PHILIPPS SEED & IMPLEMENT CO., TOLEDO, OHIO,

Regenerated Sweedish Select Oats. at has no competitor. It is in a class by itself, ed is perfect, never wet. CURED UNDER CAPS. Write for samples and prices, COLON C. LILLIE, Coopersville, Mich.

Seed for Sale Swedish Select Oats, Pedigreed Manchuria and Oderbrucker Barley, Golden Glow Corn. Rural New Yorker and White Victor Potatoes. Clover and Timothy Seed. Write for prices.

J. P. BONZELET, Eden, Wis., Fond du Lac Co.

E. H. Hutchins, -Cholce pure bred seeds: corn, etc. Commercial Fertilizers, high grade goods, shipped direct from factory. Fertilizer drills and planters. Box 108, Clayton, Lenawee Co., Mich.

ALFALFA SEED \$18.00 per cwt. on board cars at Dietz, Wyo. Bank ref. given. TOM ROGERS, Pearl, Mont,

SEED OATS—Swiss, Giant and White Tartar. Early Learning Corn ear orishelled and graded Sold on the money back plan. Price the lowest con sidering quality. E. C. DETMER, Napoleon, Ohio

BUY, THE BEST for Seed-Oderbucker Barley, Sweedish select oats Wis. No. 7, Regenerated Sweedish select oats and high grade seed corn. Write for prices, R. I. Vandercook, Linden Mich.

ALWAYS mention the MICHIGAN FARMER when you are writing to advertisers.

#### HIGH PRICES AND THE FARMER.

The farmer is coming in for a good deal of criticism from a few sources, esthe farmer is difficult to say, but there is no question but that it is producing an effect, or rather, a combination of effects classes, especially the city laborer. It is be a detriment to the producer. also questionable whether all this agitation is a benefit to the farmer and possibly will not produce the benefits for the consumer that it is intended to produce. If, however, it leads to the investigation of the methods and profits of the middlemen, or class of handlers between the producer and consumer, and leads to a more economical system of distribution not fear any investigation. it will not have been in vain. I wish, however, to suggest a few phases of the question that may work out favorably to STONE LIME VS. HYDRATED LIME the farmer, and some that may not.

1. The agitation will no doubt lead to more or less migration from the city to the farm, which will make farm labor more plentiful, and should cause less land to lie idle.

It will, if carried far enough, show that the high price paid by most of the consumers is due in part to a scarcity of the produce, and in part to high cost of distributing these products to the consumer. This excessive cost of distribution may be due either to excessive profits change or distribute these produces, or to largely overcome by careful investigation ing the production, or both. The former eating pledges sweeping over the country or because of a substitution of one product for another due to improved methods of preparing the latter, but as a whole, we do not expect a great change in the total products consumed. The consumer who cuts down expenses at one point will increase it at another. The latter factor, the increase of production by conditions over which we have little farm, a better knowledge of our business, and more persons taking up farming will all tend to increase production, but they are factors which do not work rapidly, and all violent changes will be due to

sult to the farmer from the present agitation are:

work of the fakir and extortioner. To farmers' institutes can not be conducted ground fine so that it can be readily as economically as formerly. Those with used. That is, they burn the lime stone whom business dealings are necessary and get the regular lump lime, then take reason from the cartoons in their daily this and run it thru a grinder, grinding paper that the farmer is able to pay for it up fine and sacking it and shipping it all he gets, and a little more, and tucks in this form. The only trouble with this on a little extra for hall rent, the use of lime will be that it will readily air-slake a piano, or music. Heretofore, farmers, and lose part of its caustic properties, but as a class, have been entitled to some I think this probably will be in as good concessions in a financial way by shape as you could get lime for agriculchurches, hotels, hacks, drays, and the tural purposes. public in general. Now this is changing and the farmer pays the same for his accommodations as the traveling man, manufacturer, or merchant. Possibly this will be an advantage rather than a disadvantage as it will raise the farmer in his on alfalfa, and I will give you our expeown estimation and the estimation of oth- rience with it. Last summer we plowed ers and create an air of independence that is needed by the tiller of the soil in last week in June, after the clover had his business and social relations.

from the sentimental wave which is resulting in a decreased consumption of certain farm products, such as meats, eggs and butter. This will likely be but temporary, but it creates an uncertainty in the markets that is undesirable.

agricultural work by persons who are in- poor, and there the alfalfa did not seem experienced and unfitted for it, either on to catch. But of the 20 acres sowed over their own farms, on rented farms, or as farm laborers. In either case this would cut the buckwheat some of the alfalfa be an undesirable condition, and production might not increase in the proportion

that farm labor increased. It would create dissatisfaction and an ebb tide toward the city later.

4. If thru government investigation or pecially from the pens of daily editors public sentiment distributors, wholesalers, and cartoonists. Just what the effect of or retailers are compelled to cut prices this agitation will have upon farming and to the consumer, there will be a strong attempt to cut prices paid for produce by these middlemen in order to keep their profits the same. Whatever success upon not only the farmer but upon all they might attain along this line would

> There are many results which might arise from the present agitation, some good, some bad; but as a whole, I do not think the farmer has anything to fear. He is not holding up the consumer for prices set by a trust, he is in no illegal combine, he is not getting exorbitant prices for his products, and hence he need

Calhoun Co.

I saw by the Michigan Farmer that Mr. Lillie had been using lime on his land with good results. I have used some but I had stone lime instead of commercial lime. Please let me know which you think is best.

Huron Co.

G. W.

It is true that I purchased a car load that it is not the farmer who is getting of lime last spring and used the largest the large profits from the produce, but portion of it on different fields on differ-I am not ready as yet to ent crops. report on the value of this lime. As I stated in the Farmstead Notes one time, I believe I can see that the lime benefited some fields that were into oats and peas and some that were into oats. taken by some of the middlemen who also stated that I was sure it was a benefit on the field that I put into sugar the fact that they pass thru too many beets, but I did not expect to get quick hands, or to other extravagancies in the results out of lime. My idea is that I can handling. The excessive cost due to a see more benefit from the lime I put on see more benefit from the lime I put on faulty system of distribution, or to ex- last spring, this coming year than I did cessive profits of the middlemen, may be last year, consequently I am not anxious to make any statement about the use of and strict legislation and law enforce- lime. I used a ton of lime to the acre on ment, but the high prices due to a scar- my field that I sowed to alfalfa the midcity of the product can be remedied only dle of last August. I got a good stand, by reducing the consumption or increas- but I cannot tell the value of this lime upon this land until I have more time. I may fluctuate violently on account of left a strip thru the field where no lime waves of sentiment, like the non-meat- was used and I will be able to report next summer whether the lime seems to be of any particular benefit to the alfalfa or not. I have faith enough, however, in the use of lime on sugar beets so that I shall put about a ton to the acre on the field that I intend to put into sugar beets this year, leaving a small strip thru it as a

The lime that I used was hydrated is not easily or rapidly changed except lime. Hydrated lime, as I understand it, is water slaked lime. In the slaking of control. More profit from the labor of the lump lime, or lime after the rock has producing the crop, more help on the been burned, water is used to slake it, which makes it hydrated lime, the lime absorbing a considerable per cent of the water. The lump lime you used was undrubtedly just burned lime stone and was more valuable, pound for pound, than the lime I used because it did not contain Some of the disadvantages that may re- this water which is absorbed in slaking the lime. However, your lime will more readily air-slake and is more caustic and 1. He is beginning to be considered will not keep as long, but otherwise I more wealthy and extravagant as a class, believe it to be more valuable than the and hence more desirable ground for the hydrated lime. I understand that some of the lime companies in Michigan are illustrate, it may already be noticed that preparing now to furnish this lump lime

COLON C. LILLIE

#### SEEDING ALFALFA.

I have been interested in your articles under an extra good stand of clover, the started blossoming. We worked the 2. He is a loser, temporarily, at least, ground thoroly, and on the 3rd and 5th of July we sowed the alfalfa with buckwheat as a cover crop. We sowed 20 lbs. of alfalfa and half a bushel of buckwheat to the acre, with a disk drill.

Where the clover was good there we have a first-class catch of alfalfa. But It may result in the taking up of in one corner of the field the clover was 17 acres was a good stand, and when we was 24 inches high.

Tuscola Co. M. I. LEWIS.



## If You Can Afford to Spend \$3.98 a Week to Run this Big 4 Cylinder 30 H. P. Touring Car, Then Write Me

I want to get in personal touch with every reader of this paper because I can show you that at last, here is an automobile you can afford to own-a big, roomy, family touring car, that the wealthiest man is proud to own, and the one of moderate means can afford to maintain.

Perhaps you have said to yourself that "automobiles cost too much to keep." If so, you are just the man I want to talk with, for I can show you that you can afford to own a Maxwell. My partner, Mr. J. D. Maxwell, Vice-President of this Company, has for eight years devoted his time to improving and simplifying the Maxwell.

Now I know that we have the "Great Economy Car," and in proof I want to give you the actual figures showing for just how little this big car can be kept.

I do not ask you to buy anything. I simply want to put all the facts before you. You are to be the only judge. I have prepared specially to send you, a beautifully illustrated folder in natural colors, to give you an exact picture of the car, and to show you that it can be run one hundred miles for the astonishingly low figure of \$3.98 a week.

### Send for these Valuable Books, Free

Besides the folder, printed in true-to-life colors, (suitable for framing) I want you to have these books.

Harrell.

OUR LATEST CATALOG

Completely describing the "Great Economy Car" at \$1500. Also our new 4 cylinder, 22 H.P. 4 passenger touring car, for \$1000; as well as our two passenger business runabout at \$600.

THE "CO-OPERATOR"

A bright, newsy magazine that we publish regularly, twice a month. Written to teach

Maxwell owners to run their cars as economically as possible.

HOW TO JUDGE AN AUTOMOBILE A practical treatise on automobiles. Written for the farmer who wants to be better posted on this subject.

Write me-a postal will do. Just say "Mail folder and books." I promise you, that never will one cent be invested to greater advantage.

SALE OF MAXWELL CARS TO DATE SOLD TO JANUARY 31 . 21,869 SOLD DURING FEBRUARY 10 1,360 MAXWELLS IN USE TO-DAY 23,229

Yours truly,

Bery Briscae Pres's. WATCH THE FIGURES GROW

## Maxwell-Briscoe Motor Co.

Main Office and Factory

New Castle, Ind.

Fig Street, Tarrytown, N. Y. Providence, R. I. Kingsland Point, N. Y. Pawtucket, R. I. Licensed under Selden Patent. Members A. L. A. W.

THE COW AND THE FARMER.

A discussion has occurred in recent issues of The Farmer, relative to the comparative profits of the dairy cow and the beef steer. At the beginning of this discussion, Mr. McBride, of Shiawassee Co., referred to Bulletin No. 257 of the Michigan Experiment Station as a basis for giving the cost of producing a choice yearling feeder and took the price quoted at the Detroit stock yards as a selling basis, to prove that raising feeders at current prices was an unprofitable industry upon Michigan farms. Prof. Shaw replied in defense of the bulletin in the issue of September 19, giving the price at which the cattle mentioned in the bulletin were sold, as finished baby beef, and charging that Mr. McBride's reference to the bulletin was wholly unfair. The discussion is closed by an article in this issue from Mr. McBride's pen, which is self explanatory. This reference to the discussion is made to the end that the readers may not misconstrue the arguments which have been presented to prove two entirely different points. The question as it presents itself to the average reader does not largely concern the comparative profit between the dairy cow and the beef steer. The average farmer is not a specialist either in dairying or beef production, but he must keep some cows upon the farm and unquestionably he had better keep them for the double purpose of supplying dairy products for the home and raising a quality of young cattle which will be an added source of profit when sold for beef, thus combining the economic force of the arguments presented by the two parties to this discus-

Naturally, the law of supply and demand and the good sense of the American farmer will cause a satisfactory working out of this problem in individual cases and the pointed discussion above referred to will prove helpful in the solution of this problem only in so far as it may aid the admiration of those who seek a gen the practical farmer in applying better business methods to this department of his agricultural effort. Not all farmers can well be dairy specialists, and few will care to follow the other specialty, but most farmers will engage in both lines of production to at least a limited extent. The future would seem to promise well esting lecture by Dr. C. E. Marshall, of for the making of a fair profit from both M. A. C., at the State Round-Up Instiof these lines of production to the extent tute last week. Dr. Marshall spoke of which they are now employed upon the the great mortality resulting from this average farm, provided proper attention disease in the human family and further is given to economic breeding and feeding spoke of the necessity of eradicating it in for the purpose in mind. The business our domestic animals if we would conduct farmer will adjust his operations in these departments of production in accord with human family, since it has been proven his own local conditions and experience so as to insure a maximum of profit from that it can be transmitted from bovines the combination, while the unbusinesslike to humans or vice versa. Dr. Marshall farmer will continue to keep cows at a loss, both from the standpoint of dairy products and beef produced.

#### STORY OF THE BREEDS.

Red Polled Cattle.

Will you kindly give a history of the Red Polled cattle in the columns of the Michigan Farmer? Are they good dairy cattle and how are they for beef?

Subscriber.

The Red Polled cattle are the result of the amalgamation of two types of English cattle which were native to the counties of Norfolk and Suffolk, England. According to the best authorities, the native cattle of the county of Norfolk were the smaller of these two types, usually of a deep red color with the exception of the head, which was generally mottled. This breed or type was possessed of fair milking and beef-making qualities. The native cattle of the county of Suffolk had more of the dairy form and were generally of a dun or mouse color. Both types were polled and there was a free admixture of their blood for more than a century before they were recognize as a distinct breed, which recognition dates from about 1846. This may be considered the foundation of the Red Polled breed altho it is generally admitted that other breeds used to some extent in crossing upon these native cattle for the establishment of the Red Polled breed. But such crosses were introduced many years ago and probably have played a very unimportant part in the establishment and improvement of the Red Polled breed.

Such improvement was chiefly brot about by careful selection and breeding toward a fixed standard, as well as good care and

liberal feeding. This improvement began more than a century ago, but has, of course, been more rapid since the recognition of the breed as such at the date above noted.

In England the breeding of Red Polls is still largely confined to the counties noted as being the scene of the origin of the breed. However, this strain of cattle was early recognized by the settlers of this country as adapted to the needs of the farmers who desired a general purpose animal, and it is stated upon good authority that polled cattle from the county of Suffolk was introduced into Virginia, and probably some other states, fully 200 years ago. However, the first mportation of Red Polled cattle proper was brot to New York in 1873, and the Red Polled Cattle Club of America was formed in 1883, since which time it has served as a medium for the recording of pure-bred cattle of this breed owned or bred in America. The English Red Polled herd book was established at a considerably earlier date, the first volume appearing in 1874.

Considering the comparatively recent establishment of this breed, they are now widely distributed, being registered in this country from nearly all states in the union, and exportations have been made from England to many other countries, including Ireland, Canada, Australia and New Zaland. This breed is quite popular in Michigan, our state being about third in the union in the number of Red Polled cattle registered. The Red Polls have been developed with the idea in view of producing a dual purpose animal and, if numbers in proportion to their recent introduction, be taken as an index, they are perhaps the most popular of the dual purpose types in this country. Of medium size and reasonable uniformity, with fair beef carcass and good milking qualities, they seem to have well earned this reputation. As a breed, they can not compete in beef making with special beef breeds or in the dairy with special dairy breeds, altho the breed has individuals which excel in the latter respect and the steers fatten easily and smoothly and make excellent beef, thus uniting in a fair degree the qualities which have won eral purpose type of cattle.

#### TUBERCULOSIS, IT'S NATURE AND MANAGEMENT.

This was the subject of a most interan effective campaign against it in the beyond a question of reasonable doubt also declared that tuberculosis is unquestionably on the increase and gave figures to support his contention, showing that even in the cattle maintained upon the open range it had increased from 1 per cent to nearly 10 per cent in some localities, and gave the Bureau of Animal Industry and Minnesota figures to show that from 10 per cent to 20 per cent of our cattle and hogs, particularly in dairy districts, are affected with this disease He referred to the experience of foreign countries; Belgium, for instance, having 1,000,000 milch cows, of which 400,000 were estimated to have tuberculosis, notwithstanding the fact that Belgium had expended 15,000,000 francs in three years in efforts to eradicate it. In Denmark statistics also show the disease to be on the increase, from 40 to 45 per cent of the cows of that country having the disease. Dr. Marshall further referred to cases in which active found in the milk supply of large cities, and spoke of the danger resulting to children therefrom. His idea seemed to be rather to impress his hearers with the importance of the problem in comparison with "wet or dry" or other public problems which confront our people, and inspire a general interest among farmers and stockmen as well as physicians and scientists, looking toward its control and eradication.

Michigan Farmer Sells Swine.



### The Only Tackle Block that Will **Lock Without Fail at Any Angle**

Hang it up straight, upside down, lay it flat, or at any angle—you will always find the Burr Automatic Tackle Block ready to work. Holds the load at any point without fastening the rope. There are no teeth, wedges or eccentrics to

Burr Automatic Safety Tackle Block

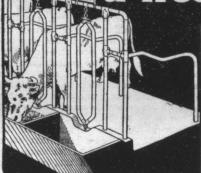
It is the only rope block that does not wear or tear the rope. It preserves rope—keeping it smooth. Wet or greasy rope is held just as tight as dry, and you can depend upon this block at all times and under all circumstances. One man can do the work of four with a Burr Block. It is the most powerful rope block on the market, doing all that any expensive chain block will do. Will lift from 600 up to 5000 pounds, according to size you buy. Useful in handling freight, heavy merchandise, stretching wire fence, unloading crops, lifting disabled animals, moving furniture or constructing buildings.

The Burr pays for itself in extra hired help saved on one job. No farmer should be without one. Prices only 70c up to \$4.25, according to capacity.

Write for catalog and other information today and let us show you how many uses and advantages it has over all other blocks. You'll never be without one after you try it. One block lasts a lifetime. Write us now.

BURR MFG. CO., 133 Viaduct, CLEVELAND, O.

### Does the Cows Heap of Good



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

LOUDEN STALLS AND STANCHIONS

are actually cheaper. Louden stalls of beavy tubular steel, with malleable fittings, have no flat surfaces for dust to accumulate—easy to keep clean and almost indestructible,

Louden stanchions give cows more comfort than other makes, yet keep them perfectly lined up. Throat chains prevent cows from lying down when milking. Simple and very durable, Latch easily opened or closed with gloved hand, but can't be opened by animal. Send today for free catalogue of sanitary, money-saving barn equipment.

LOUDEN MACHINERY CO., 603 Broadway, Fairfield, Ia.

## FRESH IMPORTATION ARRIVED SEPT 8, 1909. **BLACK PERCHERONS** ENGLISH HACKNEYS

These Horses are all Prize-Winners

from the leading shows in Europe; ages from two to four years old; terms to suit the purchaser. Byron is located on the Toledo & Ann Arbor R. R., 44 miles north of Ann Arbor and seven miles south of Durand, immediate connections off the Grand Trunk R. R.

Every horse guaranteed, and all at low prices. CALKINS & AUGSBURY Props., BYRON, MICH.

## 50 Imported Stallions & Mares

AT SPECIAL PRICES FOR 60 DAYS.

ke room for a new importation, I will make special prices for those on hand. All young, sound thest class SHIRES, line style and best of breeding. Ages 3 and 4 years. Weight 1775 to 1950.

Also WELSH MOUNTAIN PONIES OF BEST TYPE, Write for particulars. GEORGE E. BROWN, Aurora, Illinois.
Thirty-seven miles from Chicago by C., B. & Q. and C. & N. W.; also trolley trains every hour.

NICORN DAIRY RATION palatable, bulky need they, and safe Contains ample protein and produces milk at lowest cost. UNICORN RATION has increased the milk yield or our entire herd over 2 lbs. of milk per day, with a gain in weight and looks.—
W. E. FERGUSON, Merrill, Wis.

CHAPIN & CO., Inc., Milwaukee, Wis. Send for booklet and particulars.

PROFIT IN SHEEP.

LIVE STOCK NOTES.

## Lump In Your Stomach

Stuart's Dyspepsia Tablets will dissolve it at

Enjoyevery meal. Eatyourfoodwith zest. Don't kill your stomach. Keep it alive and properly working.

> Send for the free trial package. F. A. Stuart Co., 150 Stuart Bldg., Marshall, Mich.

Sold by druggists every-where. 50 cts. full sized pkg.

### **EFFECTUAL**

The most effectual remedy in use for the cure of ailments of horses and cattle is

### **GOMBAULT'S** CAUSTIC BALSAM



This preferred remedy is prepared ex-clusively by J. E. Gombault, ex-Veterinary Surgeon to the French Government Stud.

As a HUMAN REMEDY for Rheu-natism, Sprains, Sore Throat, etc., it invaluable of Caustic Balsam sold Every bottle of Caustic Balsam sold arranted to give satisfaction. Price \$1.50 er bottle. Sold by druggists, or sent by ex-ress, charges paid, with full directions for its se. Send for descriptive circulars, testimo-lals, etc. Address THE LAWRENCE-WILLIAMS COMPANY, Cleveland, Ohio.



JACKS AND MULES. JACKS AND MULES.

Raise mules and get rich.
300 fine, large Jacks, Jennies and mules, 14 to 17
hands high, weigh from 700
to 1500 lbs. Good ones, I
pay a part of shipping.

Mules in teams or carload lots. Stock guaranteed,
Write for prices today.

KREKLER'S JACK FARM

West Elkton, Ohio.

## UCKY MAMMOTH JACKS.

Jacks, Jennets and Saddle Horses. 260 head to select from. Tamworth Swine, all ages. Catalogues now ready. J. F. COOK & Co., Lexington, Ky.

FOR SALE HORSES—Auction Sale of Horses
Private Sales dally. A number of draft and farm
horses always on hand including some city marge horses always on hand including some city mares a little pavement sore suitable for farm work. All horses sold are as represented or money refunded, Jos. Gerou, Horse Market, 475 Gratlot Ave., Detroit, Mich.

PERCHERON STALLIONS. One 4 and one 2 years, record ed. Shorthorn cattle, both sex es, reasonable prices. T. M. Southworth & Son, R.13, Allen, Mich

Morgan, Belgian and Shire Stallions for sale or exchange. H. H. JUMP, Munith, Mich.

For Sale Cheap—Brilliant bred registered Perch black 1634 hands high. Weight 1600 lbs. Sound and sure. Bell phone. J. C. BUTLER, Portland, Mich.

FOR SALE or EXCHANGE.—A registered Allerton Stallion five years old for a heavy farm team or draft stallion colt. This horse can be driven by a lady. Address J. J. DOWNER. Deuton, Mich.

HEAVES CURED PERMANENT-DR. FRANKS REMEDY CO., Detroit, Mich., tel 8 how, FREE

HORSES Going Blind, BARRY Co., Iowa City, Iowa.

THE MICHIGAN FARMER.

LIVE TOCK NOTES.

The a recess article are then railent, which, but the way, was full of some points, your correspondent said that Michigan farmers are 'short on sheep' and the state of the s

## PREVENTS GALLS



### Young's UNO SELF-CONFORMING HORSE COLLARS

UNO collars have a heavy facing of self-conforming mixture, which adjusts itself to every peculiarity of the shoulders—an absolutely perfect fit, not to be secured in any other way, or by any other collar. They prevent galls, save you time and money.

This self-conforming mixture is backed up by selected long rye straw—the throats have triple strength, giving extra durability where other collars quickly give out—only bark tanned leather used throughout—top-pads heavy, smooth sole leather—strong rims—perfect hame room.

#### BRIDLE ROSETTES FREE

Send us the name of a dealer who does not handle "Uno" collars, and we will send you a pair of beautiful, nickel-em-bossed bridle rosettes free.

BENJAMIN YOUNG MILWAUKEE, WIS.

## KEKIONGA STOCK FARM

DECATUR, IND.,

### Belgian & Percheron Stallions and Mares.



Our last importation arrived last November, and are in a very good condition and of the VERY BEST TYPICAL DRAFT QUALITY. We have over 60 head of Stallions and Mares from two to five years for sale, and we invite prospective buyers to come to our barns where he will find THE IDEAL DRAFT HORSE, of both breeds above mentioned. Our terms are liberal, and every sale is backed up with the best of guarantees.

Write, or better—come and see us. Address FRISINGER AS DEPLINGER December, Indiana.

FRISINGER & SPRUNCER, Decatur, Indiana.



#### **Prairie Stock Farm**

That Leading Horse importers in the State Of Michigan, We have opened the eyes of all Michigan horsemen by our large exhibit at the State Fair. In the previous issue of the Michigan Farmer they gave the startling news of our wonderful success, not alone over our Michigan exhibitors, but over all exhibitors of the several States that were represented in competition. We won avery prize in the stallion and mare classes except the 4th prize in the 2-year-old stallion class. All our horses are now at our Barns ready for sale for less money than a good horse can be bought elsewhere with a guarantee that has stood the test for the past 33 years. Come and be convinced. Terms to suit purchaser.

E. Metz Horse Importing Co., Niles, Mich.

## **DUNHAMS' PERCHERONS**

Next large importation stallions and mares here FEBRUARY 10th, which, added to our present stock, offers intending purchasers the finest collection in America. If you want the besthorses, horses with bone, quality, size, action and best breeding, stallions or mares; if you want fair and liberal treatment; if you want lowest prices consistent with good merchandise, visit Oaklawn. Catalog shows the place and the horses.

W.S.-I. B. & B. Dunham. Wayne. Ill.

W.S., J. B. & B. Dunham, Wayne, Ill.

## 100 Percheron Stallions 100

Imported and pure bred registered Stallions from ......\$400 to \$1200. Mares from .......\$250 to \$600.

Write for Art Blotter. BURTON & CO., Kenton, Ohio.

## Million Farmers Back Buy

The verdict of a million farmers—the men "on the other side of the fence"—unanimously concedes supremacy to "PAGE." The Pioneer of Woven Wire Fences has been tested by a quarter of a century of field service. It has the backing of a vast army of fence users, whose opinions are summed up in thousands of letters like these:

Page Woven Wire Fence Co., Adrian, Mich.

Dear Sirs:—I thought I would send for your price list of Page Fence. I have had 100 rods of the Page Fence up for ten years and it is good yet, and would like to get some more and want you to send the price list as soon as possible.

Yours truly, JOHN MARZOLF.

Page Woven Wire Fence Co., Adrian, Mich.

Dear Sirs:—Please send me price list of 1258 stock fence. I have the first Page Fence put up in Union township. It was about 24 years ago that it was built, and is a good fence today. I have built about a mile of Page Fence since, 1258 and 2058 heft.

There is no agent here at present, and I believe there could be a large sale in this locality if it was worked just a little, for it is the best fence on earth.

Lock Box 11. Yours truly, GEORGE E. ROE.

Page Woven Wire Fence Co., Adrian, Mich.

Gentlemen:—Some five years ago I bought of you some woven wire fence. This was sent to me at Wilder, Vt. The fence has given excellent satisfaction, and to the best of my knowledge nothing bigger than a cat has ever gone through it. Where can I get more, and can I be sure of prompt shipments?

Will you send me prices and descriptions? I am especially interested in a hog fence.

Yours truly, GEORGE E. ROB.

## Cut Out and Mail This Coupon Today for FREE SAMPLE OF PAGE FENCE! Let us send you an actual sample of Page Woven Wire Fence and our valuable Quarter Centennial Catalog Free. See the real Page Wire! Examine the method of weaving the wonderful Page Knot—the Knot that can't come off! Study the many styles of Page Fence and the Panorama of Pictures showing extreme tests which this splendid fence withstands. Read how, in our great mills and factories, we put elasticity, tensile strength and durability into High-Carbon, Basic Open Hearth Steel Wire. Learn what this means in economy and protection to stock and crops. The tremendous success of Page Woven Wire Fence, which is now in its Quarter Centennial Year, is due to the fact that its makers have always given full measure of honest value. It is the old reliable, time-tried wire fence that outlasts them all. Specified by the United States Government as the standard of quality by which all other wire fences are judged. "Show Me" Coupon

R.F.D.

Page Woven Wire Fence Co. Box 254T, Adrian, Mich. Please send Free Sample of Page Woven Wire Fence and "Jubilee" Edition of Page Fence Catalog.

\_acres and am interested in Stock Hay Fruit Grain Poultry

ark in proper

the big catalog will be sent you promptly. PAGE WOVEN WIRE FENCE CO.

Box 254T, Adrian, Michigan

VERYWHERE ARE GETTING READY FOR SPRING. ARE YOU READY?

the standard of quality by which all other wire fences are judged.

Fill out and mail the "Show Me" coupon today, and both the free sample of Page Fence and

was so much manure piled around the barns and feed lots as there is this year, in 15 years has there been such a need for manure spreaders as there will spring? I say again, are you ready?

e been seeing my ads this year, last year and the year before, Never wrote me yet, did you? Just because I advertise you have often wondered if Galloway was really giving the value—the quality.

Say! Do you know that that is the reason I sell so many, just because I tell the people about them. All there is to selling the Galloway is simply telling the people about them. That's how I have got the biggest spreader factory making wagon box and complete spreaders, 100 a laformation about them, of the people about them. That's how I have got the biggest spreader factory making wagon box and complete spreaders, 100 a laformation about the properties of the people about them. That's how I have got the biggest them. Ask gest spreader factory making wagon box and complete spreader and the properties of the properties of the people about them. That's how I have got the biggest them. Ask gest spreader and the properties of the properti

NOW GET your letter, postal card, telephone or wire into my office. Ask me to send you my Book of Facts on the manure spreader. Today, right now, is the besttime. Do it before some other thing comes up. Write me now for my Manure Spreader Catalog. Write me the kind of trial proposition you'd like to have.

WM. GALLOWAY, President, THE WILLIAM GALLOWAY COMPANY, 847 Galloway Sta.



There is going to be the hottest rush for manure spreaders this spring that ever happened in Manure Spreader History, and I am prepared for it. I had the hunch 6 months ago. It's not too late now for you to write me and it isn't a moment too soon. Do it then while you have it in mind, today. Get my special prices and proposition Now.

Impregnators for Mares and Cows 2.50 up. Artificial Impregnation is fully ained in our Vetrinary Instrument Catalog SHARP & SMITH, 98 WabashAve., Chicago.

Having Rented Our Farm we will sell at Public Mar. 22nd, 1910, our entire herd of registered Holsteins, consisting of 18 cows, 8 heliers, and three yearing bulls. RIPLEY BROS., Dimondale, Mich

For Sale-- 2 Black Percheron Stud Colts coming two. Registered in the Percheron Society of America. J. C. TEDROW, Forest Hill, Michigan

POR SALE, an 1800 lb. unregistered Percheron Draft Stallion, a number one stock horse, a sure breeder and an extra good individual, free from any blemishes; kind and gentle to handle. Will be priced for quick sale. Address Wm. Purdy, New London, O.

For Sale—Horses, Cattle, Sheep, Hogs, Dogs or Poultry, nearly all breeds. Sires exchanged. Southwest Michigan Pedigreed Stock Association, R. E. Jennings, Sec., Paw Paw, Mich

#### BREEDERS' DIRECTORY.

#### CATTLE.

Ayrshire Bull Calves. Berkshire swine. Eggs for setting. High bred stock, White & Buff Orpingtons, White & Barred Rocks, Light Brahmas, White Leghorns and White Wyandottes \$1 per 15. Mich. School for the Deaf, Flint.

### ABERDEEN-ANGUS.

Herd headed by UNDULATA BLACKBIRD 1TO 83836, one of the best sons of PRINCE ITO 50006, and Grand Champion Bull at the Detroit and Grand Rapide Fairs of 1997, 1908 and 1909. Herd consists of Ericas, Blackbirds, Prides, etc. woodcote Stock FARM. Ionia. Mich.

Maple Ridge Farm Breeders and Importers of high class Guernseys. Write us your wants. E. & J. T. MILLER, Birmingham, Mich.

FOUR lice young registered HOLSTEIN COWS for sale. Bred to one of the best bulls in the state, Hobert W. Fay, Eden, Mich

For Sale-Three Holstein Bull Calves. De-to WILLIAMS & WHITACRE, Allegan, Mich.

Holsteins—Bull calves for sale from A R. O.dams, at \$25 to \$50 each E. COLLIER, R. F. D. 5, Fowlerville, Mich

BOARDMAN STOCK FARM, Holstein Cattle. JACKSON, MICH.

Has more imported Holstein-Friesian Cows
than any farm in the Middle West. Registered
BULL CALVES of the most fashionable breeding.

#### LONG BEACH FARM. 40 HOLSTEINS All Registered.

YOUNG BULLS, all A. R. O. stock, \$50 and \$60 F. S. KENFIELD, Augusta, (Kalamazoo Co.) Mich

TOP NOTCH HOLSTEINS.

Top Notch registered young Holstein Bulls combining in themselves the blood of cows which now hold and have in the past held World's Records for milk and butter-fat at fair prices.

McPHERSON FARMS CO.. Howell, Mich. HOLSTEINS—Bull calves, sired by grand-son of World's Champion 4-yr, old at \$25 to \$50. E. R. Cornell, Howell, Mich.

Holstein Service Bulls. Bull Calves, Yearling, two-year-old Heffers, bre and cows, due to freshen in spring for sale. 50 hes in herd. L. E. CONNELL, Fayette, Ohio,

HOLSTEIN FRIESIANS—Bull calves, Her Mercedes Boyal King, W. B. Jones, Oak Grove, Mich

HOLSTEIN BULL CALF from two

HEREFORDS:—Both sexes and all age for sale. Also Poland China hogs. R. E. ALLEN, Paw Paw, Mich

TERSEY BULL CALF born May 12, '09. Dam gave 10,950 lbs, milk, last year test 5#, Sire's Dam's record 10.060 lbs. In 10½ months, test 5.2#. The MURRAY-WATERMAN CO., R. 6, Ann Arbor, Mich

Northern Grown Jerseys.
ROYCROFT FARM, Sidnaw, Mich.

BUTTER BRED JERSEY BULLS FOR SALE. CRYSTAL SPRING STOCK FARM, Silver Creek, Allegan County, Michigan,

Pure St. Lambert JERSEYS and some nearly pure CLARENCE BRISTOL, Fenton, Mich. R.F.D.No. 5.



Register of Merit Jerseys. Official yearly T. F. MARSTON, Bay City, Michigan.

Jersey Bulls, Cows and Heifers

Island and St. Lambert breeding. Also some choice grade heifers.

DUROC JERSEY SOWS
Choice individuals and popular blood lines. Inspection invited. Full information cheerfully furnished.
If you cannot visit our farm at once write

BROOKWATER FARM, Ann Arbor, Mich. A. W. MUMFORD, Manager.

We have some splendid young bulls for sale. Some of them are old enough for service. They are from cows with records of 300 to 425 pounds of butter last year. Write for description and prices.

COLON C. LILLLIE, Coopersville, Mich.

FOR SALE—FOUR registered SHORTHORN BUILLS, old enough for service, all red, by Northern Champion, a son of Imp. Lovat Champion, who was grand sire of champion carload lot of yearing Shorthorn steers at last International, JOHN SCHMIDT, R. F. D. 4, Reed City, Mich.

DAIRY BREDSHORTHORNS—No stock for sale at present. Visitors welcome. J. B. HUMMEL, Mason, Mich.

Shorthorn Cows and Heifers in calf. Also bulls and bull calves. Milk and butter strains. Prices low. ROBERT NEVE, Pierson, Mich.

#### SHEEP.

Delaine Ewes -20 registered Delaine ewes for sale bred to a \$100 ram to lamb in April cheap if taken soon. S. J. COWAN, Rockford, Mich

Oxford-Down Sheep and Polled Durham cattle for sale. A. D. &J. A. DEGARMO, Muír, Mich

## PARSONS OXFORDDOWNS

also registered Hornless National Delaines and Black top delaines. Romeyn C. Parsons, Grand Ledge, Mich

OXFORD DOWNS A few good field rams for sale. H. J. De GARMO, R. No. 1. Clyde, Mich.

ROCKLAND FARM DELAINES—A few ewes bred to choice rams for the 1910 trade. Prices right. D. E. TURNER & SONS, Mosherville, Mich.

#### SHROPSHIRE HALL STOCK FARM.

Will make special prices for thirty days, on ewes from 1 to 3 years old, all bred to Imported Cooper, and Mansell rams to lamb in March and April, also on very choice ewe lambs, this is to make room for an g to arrive this spr L. S. DUNHAM & SONS, Concord, Michigan,

130 Reg. Ramboillet Ewes for sale, descended from the best flocks and bred to a pure Van Homeyer and a ram sired by a Gilbert ram and imported dam. All in perfect health. In lots to suit buy ers—none reserved. J. Q. A. Cook, Morrice, Mich.

#### HOGS.

### LARGE ENGLISH BERKSHIRES.

Have a fine lot of spring pigs, both sexes. The type for profitable pork production. Vigorous and strong and of best blood lines. Satisfaction guaranteed. F. A. BYWATER, Memphis, Mich.

BERKSHIRES Unexcelled in breeding. Selected boars, sows and gitts. Choice fall pigs. T. V. HICKS, R. No. 11, Battle Creek, Mich.

FOR SALE-BERKSHIRES-Two choice Sept. boar pigs, and a few fall glits, sired by Handsome Prince. A. A. PATTULIO, Deckerville, Mich

#### LILLIE FARMSTEAD JERSEYS HUPP FARM BERKSHIRES!

WON 189 PRIZES IN 1909.
Stock of both sexes and all ages for sale. Breeders of Guernsey Cattle, M. B. Turkeys, Barred Rock Chickens, Pekin Ducks. GEO. C. HUPP, Mgr., Drawer A, Birmingham, Michigan.

BERKSHIRES of the most fashion a ble type and trains. C. S. BARTLETT, Pontiac, Mich.

### NORTHERN GROWN BERKSHIRES.

A DAMS BROS. Improved Chester Whites, Litch-field, Mich., won 125 premiums in '09. Booking orders for bred sows; boars ready for service. Buff Rock, W. Orpington, W. Leghorn cock'ls. Shorthorn bulls ready for service

IMPROVED CHESTERS. Choice young Boars ready open. Also choice Hoistein Bull Calves, of the best of breeding. W. O. Wilson, Okemos, Mich. Both phones.

PURITAN HERD CHESTER WHITES—None better. Sows all sold. Orders booked for March and April pigs. WILL W. FISHER, Watervilet, Mich.

Duroc Jerseys—Fall pigs of either sex for sale, also Buff Cochin chickens and eggs. M. A. BRAY, Okemos, (Ingham Co.) Mich.

## DUROC JERSEYS CARRY U. EDMONDS, Hastings, Mich.

DUROC JERSEY SWINE, Shepherd Dogs. B. for 15. J. H. BANGHART, Lansing, Mich.

DUROC-JERSEYS—50 bred and open sows, plenly of growth and quality. Boars ready for service. Prices right. Write J. C. Barney, Coldwater, Mich.

MULE FOOTED HOGS-All ages Largest herd in the U.S. Five big herd Boars. JOHN H. DUNLAP, Williamsport, Ohlo

0. I. C. bred sows all sold. Have a few boars still on WS, Dansville, Mich.

O. I. C. -Orders booked for spring pigs from State Fair winners. C. J. THOMPSON, Rockford, Mich.

30 P. C. Fall Pigs by two champion boars. Booking orders for weaned pigs by the different boars. WM. WAFFLE, Coldwater, Mich.

Prize Winning POLAND CHINAS. Japanese Pekin Ducks. Embden Geese and Buff Turkeys. Zach Kinne, Three Oaks, Mich.

P. C. SOWS Bred for spring farrow WOOD & SONS, Saline, Mich.

P. C. SOWS, bred—These sows are of great quality and breeding. A few choice S. C. B. Minorca cockerels. R. W. MILLS, Saline, Mich.

LARGE IMPROVED YORKSHIRES—September far-rowed pigs, either sex, each. Satisfaction guaranteed. If you want the most economical feeders possible, breed your sows to a Yorkshire boar. Yorkshires are sure to be the most popular breed of the future. COLON C. LILLIE, Coopersville, Mich.

CONDUCTED BY DR. W. C. FAIR, CLEVELAND, OHIO.

Advice thru this department is free to our subscribers. Each communication should state history and symptoms of the case in full; also name and address of writer. Initials only will be published. Many queries are answered that apply to the same allments. If this column is watched carefully you will probably find the desired information in a reply that has been made to some one else.

the desired information in a reply that has been made to some one else.

Nodular Disease.—Tell me what to do for my sheep that have lost their appetite and scour some. J. H., Sand Lake, Mich.—Mix equal parts gentian, ginger. catechu, prepared chalk and powdered charcoal; give each sheep a tablespoonful at a dose in feed three times a day.

Lymphangitis.—I have a horse that developed a case of lymphangitis some time ago, affecting one fore leg, which caused him to travel stiff. I have given hyposulphite of soda and applied vinegar and wormwood, but the leg is not well. G. H., Fairgrove, Mich.—Give I dr. iodide potassium and 2 drs. nitrate potash at a dose in feed three times a day for four or five days, then once a day for four or five days, then once a day for four or five days, then once a day for ten days. Feed no grain, but some well salted bran mashes and vegetables and apply one part alcohol and two parts warm water two or three times a day.

Barrenness in Cows.—For the past 12 Indigestion.—I am renewing my subscription on account of the help I get from reading the veterinary department, but am at a loss to know what to do for my three-year-old colt. From what I can tell he has indigestion and his bowels are too loose. What had I better give him? G. G., Marine City, Mich.—Your colt may be having a little trouble teething, which will soon disappear. However, you had better give him a tablespoonful of the following tonic and condition powder. Ground gentian, cinchona, fenugreek, prepared chalk and powdered charcoal; if a tablespoonful does not correct this trouble give him two at a dose twice a day.

Bots.—My yearling colt took sick. I called our local Vet. but he treated her

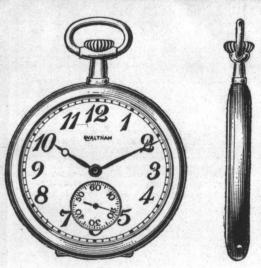
rect this trouble give nim two at a cose twice a day.

Bots,—My yearling colt took sick. I called our local Vet, but he treated her for acute indigestion but she died. Found iots of bots in stomach. J. L., Memphis, Mich.—I am inclined to believe that the bots caused the death of your colt. More can be done to prevent them than in line of medication, for powerful drugs fail to loosen them from the stomach. During May and June the bots usually loosen their hold and come away in large numbers and the animal gets rid of them. When bots are numerous in the stomach they sometimes interfere with digestion, but as a rule seldom do much harm. The self are the shoulders should be kept free from the shoulders should be kept the form and the shoulders with the shoulders and some of my neighbors. H. S. K., Muir, Mich.—If your cows have no vaginal discharge and come in heat regular, it is possibly due to an acid condition of the genital tract. In such cases benefit will be obtained by dissolving ½ lb. bicarbonate of soda in a gallon of clean water that has been boiled, and washing out vagina once a day, using one quart at a time. This is most easily done with a rubber tube with funnel on end. If the cattle are in a healthy condition it will not be necessary to use drugs. In these kind of cases the yeast treatment gives fairly good results. If the cows have a vaginal discharge, dissolve 2 drs. permanganate of potash in a gallon of tepid water and use this solution instead of the soda or yeast treatment.

Cerebro Spinal Meningitis.—I would like to have your advice about some horses which I have the care of. In leading one to the water, it began to wobble and stages; he gi

## WALTHAM WATCHES

The Authentic American Watch



Everyone knows that Waltham Watches are good watches. When you buy a Waltham Watch buy only from a jeweler and buy one adjusted to temperature and position.

Do not buy a watch of a mail order house.

Jewelers are specialists who know how to regulate watches to your habit and occupation, how to oil them properly, how to detect any little disarrangement that may have occurred in transportation. A responsible jeweler who values his reputation will guarantee a Waltham Watch, and behind the jeweler's guarantee is that of the Waltham Watch Company.

When you buy a watch remember not only that Waltham Watches are the best, but that they were the first American Watches. Every watch-making device and invention of importance in use has originated in the Waltham Watch factory.

### WALTHAM WATCH COMPANY, WALTHAM, MASS.

Send for the "Perfected American Watch," our book about watches.



#### Freight Prepaid

For the Complete Spreader, guaranteed to beat them all. Always the leader, it now jumps many more years ahead of the imitations, with 19 improved features, all found on no other spreader. Yet, note the prices, delivered to you, freight prepaid: In Michigan, \$33.50; in Indiana or Ohio, \$85.00; in Illinois, \$86.50; in Iowa, Minnesota, Wisconzin or Missouri, \$90.00. Write for price for other states. These prices equal or beat prices asked for ot spreaders—yet others are makeshifts when compared with latest improved—

## Detroit-American - No Money Down Cash or Credit

Delivered in Michigan and only a trifle more American Harrow Co., 1013 Hastings St., Detroit, Mich.

Complete

\$83.50

Made in all sizes. More steel used than in any other spreader; cylinder all steel; steel rake and end gate; simplest feed—six changes made from seat; the only direct chain drive—no gears; lightest in draft. Proveit. Try one free.

Our Wagon-Box Spreader, \$42.50

Delivered in Michigan and only a triffe more.

American Harray Co. 1012 Hastings St. Detroit Mich.

### I WANT A MAN - ARE YOU MY MAN?

WANT A MAN who knows the profit in buying, selling and weight, who will be the first one to get the benefit of the introprice on my Steel Frame Pittess Farm Scale, which I have just This 5 ton scale has new compound beam and beam box, free. To who will help me continue my 45 years fight against all scale ment trusts, I will send a scale ment trusts. such aman and imple-entirely on

"JONESHe Pays The Freight" 121 Lee St., Binghamton, N. Y.



### Time Has Told

### Kendall's Spavin Cure

has been the unfalling remedy for 40 years.
Silver Creek, N. Y., Apr. 8, 1909.
Dr. B. J. Kendall Co., Enosburg Falls, Vc.
I have used Kendall's Spavin Cure for the last; I have used Kendall's Spayin Cure for th years, and it never has failed to, do all that I for it. Would not be without it. C. A. Dal 31 abottle, 6 for 35. At all drug stores, Free book, "Treatise on the Horse," or write DR. B. J. KENDALL CO., ENOSBURG FALLS, VT.



"Cow Troubles"

Is the title of our Book 6-A that is sent free, telling how to releave Caked Bag, Sore or Injured Teats, Spider in Teat, Cow Pox, Udder Troubles, and prevent Heifers from becoming hard milkers with "Cows Relief"

\$1.00 per Box

Delivered, or at Dealers.

Delivered, or at Dealers'
O. H. MFG. CO., 28 Chapel St., Lyndon, Vt. THICK, SWOLLEN GLANDS

that make a horse Wheeze; Roar, have Thick Wind, or Choke-down, can be re-moved with



or any Bunch or Swelling,
No blister, no hair
gone, and horse kept at
work. \$2.00 per bottle, delivered. Book 3 D free.

ABSORBINE, JR., for
mankind, \$1.00, delivered. Reduces Goitre, Tumors.
Wens, Varicose Veins, Ulcers, Hydrocele, Varico
cele, Book free, Made only by
M. F. TOUNG, P.D.F., 268 Temple St., Springfield, Mass,

Special

0

0

T 0 8

0

3

## Horse Clipping Machine

#### CLIP YOUR HORSES WITH A STEWART

Complete for \$7.50 We have made the Stewart so that any person can clip horses by guiding the knives over the horse while the crank is turned. We have made the Stewart durable enough to last allifetime by enclosing working parts a way from dirt and dust, and cutting the gears from the solid stee I bar and making them file hard. We have made it of so we have made it of so we have made on at the carter of the solid stee of the carter of the solid stee of the so st price ever made on truly good clipping nachine.

Order from your dealer or send your order and \$2.00 to us and receive machine C. O. D. for balance, Catalog on request. TODAY

CHICAGO FLEXIBLE SHAFT CO.

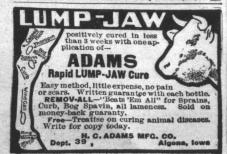


## EATH TO HEAVES

Coughs, Distemper, Indigestion Guaranteed or Money Refunded NEWTON'S

CURES HEAVES BY CORRECTING THE CAUSE which is Indigention. Send for Booklet "Horse Troul which is Indigestion. Send for Booklet "Horse Troubles." Explains fully about the Wind, Throat, Stomacl and Blood. Newton's is safe for colt, adult or mare in foal A GRAND CONDITIONER AND WORM EXPELLER #In can at dealers or express prepaid.

THE NEWTON REMEDY CO., Teledo, Ohio



her until she is perfectly well. Also give her 30 drops of carbolic acid. dissolved in a pint of water and mixed with feed at a dose night and morning for 10 days.

Eczema.—Have been a reader of the Michigan Farmer for a great many years and never miss reading the veterinary column; therefore, I would like to know what to do for a four-year-old mare that is troubled with an itchiness affecting her neck and head. Every sime I go near her she is inclined to rub against me. Have applied kerosene and lard and also used liver of sulphur on her neck and head. Neither of these mixtures appeared to have a good effect. I fancy when I am grooming her that there are some small insects get on to me, as I think I fell them on my face and in my hair for a time after. There is a great deal of dandruff on face and mane. T. J., Fletcher, Mich.—I am inclined to believe that you imagine the presence of parasitic life escaping from her to you. As a rule, animal parasites that are on horses and cattle do not care to live on man. She no doubt has parasitic mange. Clip her and apply 1 part flour sulphur, ½ part carbonate potash and 4 parts of lard once a day. Also give her a dessert spoonful of Fowler's solution at a dose in feed two or three times a day and she will soon recover. I suggest that you dip your curry comb and brush in kerosene and discontinue using them on other horse or you may spread this infection.

Chicken Cholera.—If there is a remedy for chicken cholera if would like to know what it is. G. H. W., Hudson, Mich.—If your chickens have cholera the diseased should either be killed or separated from the well fowls, the coop wet with 1 part carbolic and 30 parts water and whitewashed. Dissolve 2 czs. hyposulphite soda in a quart of water and give each chicken a teaspoonful at a dose three times a day.

Rickets.—I have nine-months-old pigs that have rheumatism, affecting their hind quarters. How sh

and clean.

Enlarged Gland—Garget.—I have a mare that has a bunch in throat which is growing large and I imagine it is causing her to cough. I also have a heifer that will soon be fresh which is troubled with garget. J. M., Ravenna, Mich.—Apply equal parts tr. iodine and camphorated oil to bunch once a day. Give your cow ½ oz. fluid extract of phytolacca root at a dose in feed twice a day; also apply extract of phytolacca to inflamed udder once a day. She should be fed less grain and more vegetables until after calving time.

time.

Eczema.—My Poland China sows are seemingly healthy but have a scaley condition of the skin every year; what had I better do for them? A. J. W., Boyne City, Mich.—Apply one part kerosene and six parts vaseline to sore parts of skin three times a week and give them each a teaspoonful baking soda in feed twice a day.

three times a week and give them each a teaspoonful baking soda in feed twice a day.

Contracted Feverish Feet.—I have a horse that has contracted, and hard, feverish feet, which I should like to have treated. C. W. E., Marion, Mich.—Apply lanolin (wool fat) twice a day to fore feet. By blistering coronets in front it will help him, or stand him in a tub of warm water two hours daily.

Leg Weakness.—Can you tell me what is the cause of our young pullets losing the use of their legs? Their toes seem to draw up and they are unable to stand. These chickens look fine, are fed wheat, oats, buckwheat, green cut bone, also green food. J. J. D., Croswell, Mich.—Examine them for lice and you may find some, also look on their roosting poles for mites. It is not a sickness but a weakness.

for mites. It is not a sickness but a weakness.

Bunch on Hock.—I have a four-year-old colt that has a bunch on hock as large as a man's fist. Have been applying soft soap. E. L. S., Loomis, Mich.—A bunch of this kind is not easily reduced. However, you will obtain fatrly good results by applying equal parts tincture iodine and spirits of camphor.

Sprained Fetlock.—About the first of December one of my cows went lame in one hind leg, the fetlock swelled, also the foot, and pastern became hot and tender. She has been pretty well part of the time, but is now lame; after applying liniment on the joints for two weeks the swelling subsided, but the lameness hangs on. F. C. H., Hemlock, Mich.—Apply mustard and water to swollen joint once a day for a week, and if she does not improve, blister with cerate of cantharides.

J. B. C., Rogers City, Mich.—You keep the cream too cool. Consult a good butter maker and they will guide you right.

### GASOLINE PUMPING

Purpose Special B for achine

This Back-Geared Pumping ngine with Stuffing Box, asshown, ready to receive pipe connections, and capable of raising 260 barrels of water per hour to an elevation of 25 feet, 66 barrels to an elevation of 100 feet, or proportionate quantities to any height. F. O. B. Chicago

A complete pumping outfit assembled in one compact machine ready to receive the well connections and go to work just as soon as they can be attached. Cylinder, pipe and rod all fitted ready to screw together, for any lift from 25 feet to 100 feet, furnished for \$45.

This is an emergency outfit which can be shipped on an hour's notice and can be set up in complete working order within an hour after it is received.

This eagine was specially designed for pumping. It can also be used for running a grant process of the light mention; saw or the light mention; saw or the light mention; saw or the principal wor machinery; but, where operating we machinery to the principal were machinery.

AERMOTOR CO., 2508 12th St., CHICAGO



FOR

### SPRING DIPPING

Hand Dressing All Stock.

PUTS AN END TO

LICE, TICKS, MITES, FLEAS, MANGE, SCAB, RINGWORM, ALL SKIN DISEASES.

Don't waste time and money on inferior dips. -USE-

## KRESODIP

NON-CARBOLIC. STANDARDIZED.

Prepared in our own laboratories. Ask your druggist for Kreso Dip. Write us for free booklets telling how to use on all live stock.

#### PARKE, DAVIS & CO. DETROIT, MICHIGAN.

Branches: New York, Chicago, St. Louis, Boston. Balti-more, New Orleans, Kansas City, Indianapolis, Minneap-olis, Memphis London, Eng.: More tad., Que.; Sydney, N.S.W.; St. Petersburg, Kussia; Bombay, India; Tokio, Japan; Buence Aires, Argentina.





### 'SAVE THE HORSE' SPAVINCURE.

WAR DEPARTMENT.

Office Furchasing Commissary U.S. Army,
Saint Louis, Mo., Nov. 17th, 1909.

Troy Chemical Co., Binghamton, N.Y.
I have great faith in your medicine. I cured a bad tendon on a horse which had been fired and seemed beyond all hope. I also cured a sprained tendon in another horse within two weeks.

CAPTAIN J. N. KILIAN, 3d & OliveSts., Commissary U.S. Army.

FREEPORT FIRE DEPARTMENT

Troy Chemical Co., Binghamton, N.Y.
Freeport, L. I., Nov. 29, 1909. Esclosed check for bottle "Save-The-Horse," Every horseman around here thought horse was incurable, but don't think so now. Here is what I have done with "Save-The-Horse," and some of these cases were cured two land three years ago, as you know, and are cured to-day. In fact, I am not afraid to undertake any case without the gularance.

The first case was a gray mare with bone spavin, over three years' standing. So lame everyone thought she would never go sound again. In six weeks' time she did not take a lame step. Let her to the Freeport Golf Club every week day.

The next case was a fine blooded horse with ringbone, belonging to a friend. In two months' time he did not take a lame step. Also cured a Polo Fony who was hardly able to get out of the stable, both hind legs affected with the worst bone spavin I ever saw. Bought him for hen dollars, and everyone said would have a suffected with the worst bone spavin I ever saw. Bought him for san dollars, and everyone said would have that he have here of you would not know that he had ever been payind, every say the humarise of the first with the horst soot the first be giant do see anyone regarding these cases. CARL DAREN BERG.

50 a bottle, with legal written gurantsee or contract. Trainers on every kind of case. Peers from business men a trainers on every kind of case. Peers from business men a trainers on every kind of case. Peers from business men a trainers on every kind of case. Peers from business men a trainers on every kind of case. Peers from business men a trainers on every kind of case. Peer

### Horse Breeders



Artificial
MARE IMPREGNATORS
We GUARANTEE you can get from 2 to 6 mares in foal from one service of stallion or jack. Increase the profits from your breeding stables by using these Impregnators. No experience necessary to use them successfully. Prices, \$3.00 to \$5.00 each prepaid.
Popular SAFETY IMPREGNATING OUIFIT, especially recommended for impregnating so-called barren and irregular breeding mares, \$7.50 prepaid.
Write for CATALOGUE which illustrates and describes our Impregnating Devices, Breeding Hobbles, Stallion Bridge, Shelds, Supports, Service Books, Etc.

### IncreaseYour Profits

HEAVES CURED! A remedy for lung, throat and wind troubles. Cures fleaves, Coughs, Distemper and Indigestion, Veterinarians use and recommend

PRUSSIAN HEAVE POWDERS
Druggists will get them.
Price 50c at dealer, 60c by
mail. Send for Free book.

PRUSSIAN REMEDY CO., ST. PAUL, MINN



SIX DAYS' TREATMENT FREE to new customers, if you send 4c to pay postage. If your druggist can't supply you

Send \$1 for 30 Days' Treatment

W. C. FAIR, V. S., Prop.
DR. FAIR VETERINARY REMEDY CO. 5712-5714 Carnegie Avenue, Cleveland, Ohio.

# OVIGPGTURES



DAN PATCH 1:55

MAILED STOCKOWNERS



It is a New Invention that you can carry in your pocket and show your friends instantly day or night, either once or a hundred times and without a machine, curtain or light. It is the most Attractive Novelty and most pleasing Dan Patch Souvenir ever Invented and shows Every Motion of Dan Patch 1:55 in pacing one of his Marvelous and Thrilling World Record Miles and it is Absolutely True To Life.

I want to assure you that it is the most successful Moving Picture ever taken of a world champion horse in his Wonderful Burst of Speed. If you love a great horse and want to be able to see him in Thrilling Motion Pictures at any time as long as you live Be Sure And Accept My Remarkable Offer Before They Are Gone.

I reserve the right to stop mailing these very expensive moving pictures without further notice, as this is a special free and limited offer.

















and every one of the 2400 pictures shows the King of all Horse Creation as plainly as if you stood on the track and actually saw the mighty Dan Patch 1:55 in one of his Thrilling Speed Exhibitions for a full mile. Just think of it! 2400 Moving Pictures Taken Of Dan in 1 min. and 55 sec. means 21 pictures taken for every second all of the way around the entire mile track from the back seat of a high power automobile.

You Can See Dan Shake His Head To Let His Driver Know That He Is Ready And Then You Can Watch Every Motion Of His Legs As He Flies Through The Air With His Tremendous Stride Of 29 Feet. As A Study Of Horse Motion Alone This Is Better Than If You Saw The Actual Speed Mile Because You Can See Dan Patch Right Before You For Every Foot Of The Entire Mile And Not A Single Motion Of His Legs, Body Or Head Can Escape You.

You can see his Thrilling Finish as he strains every nerve and muscle to reach the wire in record breaking time, you can see his driver dismount and look at his watch while thousands of people crowd around, you can see his caretaker force his way through the crowds, uncheck Dan and then throw a beautiful woolen blanket over him to prevent catching cold and then you can see him walk up the track before a Madly Cheering Multitude of 90,000 People.

Wherever the Original Moving Picture, of the Fastest Harness Horse In The World, is shown, people involuntarily call out "Come on Dan"—"Come on Dan." The Original Moving Picture Of Dan Patch Pacing A Great Mile Is The Most Realistic, Thrilling Picture You Ever Saw. I Have Taken A Large Number Of The Original 2400 Wonderful Pictures And Made Them Into A Newly Invented Pocket Moving Picture that you can easily carry with you in your pocket and show to your friends at any time, day or night. It does not need a machine, it does not need a curtain and it does not need a light. It is all ready to show instantly, either once or a hundred times CREATES A SENSATION WHEREVER SHOWN.

If you admire a Great World Champion who has gone more Extremely Fast Miles than All of the Pacers and Trotters Combined that have ever lived then I am sure you will write me today for one of my Wonderful Moving Pictures of the King of all Harness Horse Creation, Dan Patch 1:55. The Reduced Pictures On This Page Show Dan In 16 Different Positions. YOUR MOVING PICTURES WILL BE MUCH LARGER IN SIZE AND NUMBER.

MY NEW, POCKET MOVING PICTURES MAILED FREE TO ALL STOCKOWNERS

With Postage Prepaid---If You Are A Farmer, Stockman Or Poultry Raiser I Require A Correct Answer To These Three Questions.

Ist. In what paper did you see my Moving Picture Offer?

2nd. How many head Each of Horses, Cattle, Sheep, Hogs and Poultry do you own?

3rd. How many acres of land do you own or how many acres of land do you rent?

18 I Personally Guarantee, Free To You one Of These Marvelous Moving Pictures, if You Write Me Today. You cannot buy them for \$5.00 each. — Signed.— M. W. SAVAGE

18 YOU ARE NOT A STOCKOWNER AND WANT THE PICTURES SEND ME TWENTY-FIVE GENTS FOR POSTAGE,

Packing, etc., In Silver or Stamps and I will mail you this wonderful Moving Picture of Dan Patch 1:55, the fastest harness horse the world has ever seen. — If you send me Twenty-five Cents in Silver or Stamps—EVEN if you do not own any stock or land, I will mail it to you postage prepaid. It costs Thousands of Dollars to have these made. Write At Once to -- M. W. SAVAGE, Minneapolis, Minn.



## I OWN THE 5 FASTEST WORLD CHAM-PION STALLIONS EVER OWNED ON ONE FARM IN THE HISTORY OF THE WORLD.

TWO WITH RECORDS BELOW TWO MINUTES. TWO WITH RECORDS BELOW TWO MINUTES.

On my "International Stock Food Farm" of 700 acres I own
Dan Patch 1:55, Minor Heir 1:59½, Directum Jr. 2:10½, Arion 2:07¾,
Roy Wilkes 2:06½ and also about 200 head of Young Stallions,
Brood Mares and Colts and they eat "International Stock Food"
every day. I will be pleased to have you visit my farm at any
time and see my horses and their splendid condition. I feel sure
that you never saw their equals at any Fair or Horse Show,
ACTUAL TEST IS WHAT PROVES EVERYTHING IN THIS WORLD. If
"International Stock Food" gives paying results for the highest
priced horses in the world on my farm it certainly will pay you
to use it for all of your stock. Remember that if it ever fails to give priced horses in the world on my farm it certainly will pay you to use it for all of your stock. Remember that if it ever fails to give your Horses, Cattle, Sheep or Hogs, better assimilation and digestion, purer blood and perfect health with quick growth and fattening that it will not cost you a cent no matter whether you have used one hundred pounds or five hundred pounds and you are to be not only the user but also the sole judge of resulse. I will leave the entire matter for you to decide and accept your own statement. How the United States Government backs my claims that "international Stock Food" is strictly a medicinal tonic, blood purifier, eic. During the Spanish-American War, United States officials made a special examination and decided that "International Stock Food" was strictly medical and I paid \$40,000.00 patent medicine war tax. Can any honorable man deny this evidence. "International Stock Food" and label design is registered in Medicinal Department as a Trade Mark No. 52791 giving it commercial standing and rights as a distinctive "TRADE NAME" FOR A MEDICINAL, TONIC PREPARATION The United States Government issued me a Trade Mark No. 22886 on the world famous lines, 3 Feeds for One Cent-as showing how cheaply International Stock Food can be mixed with the regular grain feed - My label shows a list of the medicinal ingredients used and 250,000 Dealers have sold "International Stock Food" for over 20 years as a medical tonic preparation.

Write to M. W. SAVAGE, Minneapolls, Minn.

18 Acres of Covers Over A City Block

INTERNATIONAL STOCK FOOD FACTORY
LARGEST IN THE WORLD -OVER 800 EMPLOYEES

International Stock Food International Poultry Food International Compound Absorbe International Distemper Remedy International Distemper Remedy International Foot Remedy International Colic Remedy International Louse Killer International Louse Paint International Gall Heal Silver Pine Healing Oil International Heave Remedy

ASK YOUR DEALER FOR AN

Dan Patch Stable Disinfectant Dan Patch White Liniment International Worm Powder International Hoof Ointment International Sheep Dip International Cattle Dip International Hog Dip International Harness Soan International Gopher Poison International Worm Remedy International Healing Powder International Quick Blister

International Heave Remedy

ASK YOUR DEALER FOR ANY OF THESE PREPARATIONS
and insist on having what you ask for. Beware of many cheap
and inferior substitutes and imitations. High Class Dealers
Sell My Preparations on my Spot Cash Guarantee to refund
your money if they ever fail.
PRESENT SALES LARGEST IN THE HISTORY OF THE BUSINESS
Signed, M. W. SAVAGE, Owner of International Stock

DO YOU EXPECT TO SEE THE DAY WHEN THESE WONDERFUL DAN PATCH 1:55 RECORDS WILL BE EVEN EQUALLED?

## HAS PACED

1	MILE I	٧ .		1:55
1	MILE I	V		1:55%
2	MILES	IN .		1:56
14	MILES	AVERA	GING	1:56 1/2
30	MILES	AVERA	GING	1:571/2
45	MILES	AVERA	GING	1:58
73	MILES	AVERA	GING	1:59%
120	MILES	AVFRA	GING	2:0214

#### DAN HAS BROKEN WORLD RECORDS 14 TIMES

In addition to all these records Dan Patch is proving to be one of the Greatest Sires of both pacers and trotters in all horse history - Look up his large official list of Standard Performers, Dan Patch 1:55 has gone more Extremely Fast Miles than the Combined Miles of All The Trotters and Pacers That Have Ever Lived. Be sure and remember these facts when you think of any Horse equalling Dan's Wonderful Performances,

For Seven Years Dan Patch has eaten "International Stock Food" every day mixed in his regular grain feed. It has given Dan Purer Blood, More Strength, More Endurance, More Speed and Perfect Health. It is constantly used and strongly endorsed by over Two Million Farmers and Stock Breeders, as the Greatest Animal Tonic, and has been for 20 years. No other preparation has such strong United States Government and practical Stock Breeders Endorsement, as has International Stock Food.

IN ANSWER TO INQUIRIES.

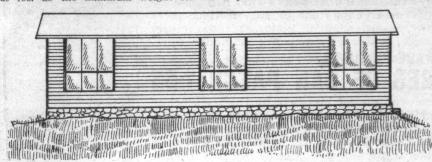
The Bourbon Red Turkey.

correspondents have Several whether the so-called Bourbon Red is a this breed-for it is now commonly recognized as a distinct breed-was originated in Kentucky some years ago and has become rather favorably known there and in adjoining states. However, we are creditably informed, its admirers have Red recognized as a standard breed, due to the fact that it rather closely resembles the Buff, a breed which for some ing the breed. In plumage these fowls closely resemble the Buff, except that the hemlock inside. The perches, nest boxes white, instead of a light shade of buff room, as in the Buff breed. Its friends place scratching room. The perches are over 20 lbs. as the minimum weight for an a platform which covers the nest boxes

head and mouth with some good antis tic, giving the bowels a moderate purg and then feeding warm, stimulating food. Well advanced cases are seldom treated successfully and your energies can be more profitably devoted to cleaning up the poultry quarters and preventing healthy fowls from coming in contact with the discharges from the diseased since in no other way can this ones, distinct breed of turkey. It appears that much dreaded disease be surely stamped

#### HENHOUSE HAVING MANY GOOD FEATURES.

The poultry house which I am illusnot yet succeeded in having the Bourbon trating and describing has some valuable points that are comparatively new to me. The building is 16x38 feet on the ground, eight feet high in front and five feet at years has held a place in the Standard the back. The high side faces the east of Perfection. Breeders of the Bourbon or south, and contains three windows. Red maintain an organization known as each 5x6 feet, extending to the plate. the National Bourbon Red Turkey Club, They are discarded store windows, where and thru this club has been dispensed plate glass was to be used. The foundasome authoritative information concern- tion and floor are concrete, the walls double-clapboards outside and matched main feathers of wing and tail are pure and drinking vessel do not occupy floor leaving the whole space



Front Elevation of Henhouse, Showing Position of Windows

hens should be a shade lighter than the door. toms, the plumage of the latter being very closely, except in color of wing and night. The runs extend tail feathers. The Bourbon Reds are said low side of the building. to be quiet and easily handled, non-roving in habit and yet very hardy.

Hens Eat Their Feathers.

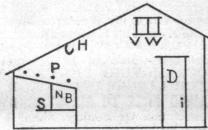
that his hens do not lay but persist in eating their feathers. He feeds corn, clover hay, apples, carrots, mangels and oyster shells. Without further details it is hard to say just what is the trouble For one thing, the ration is hardly here. what is should be. It contains no good protein foods like meat scrap or green bone, and it may be the craving for animal food that induces them to devour Then, again, if a portion of the grain ration has not been fed in litter to keep the hens busy, it may be that they have simply contracted the habit of feather pulling during the long periods of Another possible, indeed a very probable, explanation is that the hens are infested with the so-called depluming mites, a very small pest which makes its attack at the base of the feather, usually the feathers on the head and neck. The effect is to weaken the feathers, causing them to break or fall out, and sometimes the hens become feather eaters thru their efforts to get at the seat of the irritation. Examine the bases of feathers on head and neck with a magnifying glass. If the mites are discovered, rub carbolated vaseline into the skin daily wherever there If satisfied that mites are not present, we suggest changing the method of feedable, will also improve the ration.

Hens Probably Roupy.

old tom and 18 lbs. for a young one, but and under the low part of the roof, to claim that old toms weighing 30 lbs. or insure warmth. The nest boxes are enmore are not uncommon. The hens tered from the rear side, which is comshould not weigh less than 14 lbs., or pul- paratively dark, and the eggs are relets less than 10 lbs. In body plumage the moved from the front, thru a long drop

Instead of a loft containing straw or described as reddish brown instead of other material to absorb moisture, each buff. However, a pair of these fowls gable contains a small ventilating winseen at the recent Michigan State Poultry dow covered with muslin and fitted with show, apparently rather poor specimens a swing sash, which is opened on fair, of the breed, resembled the Buff breed moderate days, but always closed at The runs extend back from the

In the cross section, N. B. indicates nest boxes-two sets of twelve each; S. is a step extending the length of each Old Subscriber, of Iosco county, writes set of nests; P shows position of perches;



Sectional View of Henhouse.

H is a hook by which the perches are suspended while cleaning the platform; W ventilating window, and D, the outside door. This seems like a well arranged building to accommodate about 100 hens.

New York.

CLARKE M. DRAKE.

NUMBER OF DRONES NEEDED IN AN APIARY.

The number of drones needed in an apiary is a thing upon which all are not agreed. At this time of year, when one is planning for the season soon to open, it may be well to make an effort to have one's ideas somewhat settled on the subare signs of the presence of the mites. ject, so as to know whether to encourage the production of drones or to discourage it by controlling the kind of comb in the ing so as to give the hens the greatest hive. The natural instinctive knowledge possible amount of work and exercise; of the necessity of having drones in the also adding to the ration meat scrap or hive at some seasons is very strongly green cut bone to the amount of about marked in the worker-bee. Drones are I lb. daily for 20 to 25 hens. The addition rarely kept over winter under normal of a like quantity of skim-milk, if avail- conditions. They are usually killed, or driven away, at the end of the harvest, yet we all know that if a colony remains Subscriber, Carson City, Mich:-Your queenless its bees will not only fail to kill description of the condition of your hens drones at the beginning of winter, but would indicate an early stage of roup, will even accept drones which have been The nature of this disease, the means by driven out of other hives. This I know which it spreads and the best manner from personal experience, for I have seen of handling it have been given repeatedly Italian drones, late in the fall, in a queenin these columns. Briefly, treatment less hive which contained only black bees. which may be successfully used in the These drones could not have been reared earlier stages of the disease consists of there, but had come to the hive when frequent and thoro cleansing of the fowl's driven from their home, and the bees,

## -A FEELING OF SECURITY-

You naturally feel secure when you know that the medicine you are about to take is absolutely pure and contains no harmful or habit producing drugs.

Such a medicine is Dr. Kilmer's Swamp-Root, the great Kidney, Liver and Bladder Remedy.

The same standard of purity, strength and excellence is maintained in every bottle of Swamp-Root.

Swamp-Root is scientifically compounded from vegetable herbs.

It is not a stimulant and is taken in teaspoonful doses.

It is not recommended for everything.

It is nature's great helper in relieving and overcoming kidney, liver and bladder troubles.

A sworn statement of purity is with every bottle of Dr Kilmer's Swamp-Root.

If you need a medicine you should have the best.

If you are already convinced that Swamp-Root is what you need, you will find it on sale at all drug stores in bottles of two sizes, fifty-cents and one-dollar.

Send to Dr. Kilmer & Co., Binghamton, N. Y., for a sample bottle, free by mail—it will convince anyone. You will also receive a booklet of valuable information, telling all about the kidneys. When writing be sure and mention the Detroit Michigan Farmer.

terial in enormous quantifies).
Anybody can afford and might just as well have a high grade engine when h
i get in on a wholesale deal of this kind. I'm doing something that never was
the hefore. Think of it.



Get Galloway's **Biggest and Best** FREE GASOLINE BOOK

Wm. Galloway, Pres., Wm. Galloway Co. 645 Galloway Station, Waterloo, Iowa

Responsible men in every community in Michigan to handle a well-known reliable brand of fertilizers. Liberal terms. Write The Buffalo Fertilizer Co., Sta. A, Buffalo, N. Y.



CIRCULARS. The Peterson Mfg. Co. KENT

18000000 1 ME Vat 182 DOMYOROD Geo. Ertel Co., 194 Kentucky St., Quincy, Ill.

My S. C. Brown Leghorns lay eggs, orders booked now. \$2.00 per 15. WM. J. COOPER, Mt. Pleasant, Mich.

BEEKEEPING its pleasure and profits, is the theme of that excellent and handsomely illustrated magazine, GLEANINGS IN BEE CULTURE. We send it for six months on trial for twenty-five cents, and also send free a 64-page book on bees and our bee supply catalog to all who namthis paper. THE A. I. ROOT Co., Box 54, Medina, O

WANTED—A thorough competent man to work on farm.
Must understand all kinds of farming and give best of reference. Good tenant house furnished, for right party. J. M. BRYSON, B. No. 3. Birmingham, Michigan. Phone Bell 56 J—2 rings.

WANTED—A capable farmer for charitable institution in Northern Michigan. A single man, or one with no children, preferred, whose wife would work in the house. For further particulars address Box 89, Houghton, Michigan

LARGE, VIGOROUS Rhode Island Reds, White Wyandottes Barred Rocks, Single & Rose Cobm Brown Leghorn Buff Leghorns, White & Pearl Guineas. Geese eggs Toulouse, Embden, African, White and Brown Chinas. E. J. HASKINS, Pittsford, Mich.

LIGHT BRAHMA, White Wyandotte and Barred Plymouth Rock Cockerels for sale, good tock. E. D. BISHOP, Route 38, Lake Odessa, Mich.

R. I. Reds & White P. Rocks—Cockerels and hens for sale bred from prize-winning stock. Satis-faction guaranteed. Howard Colby, Dentons, Mich.

WHITE LEGHORN COCKERELS R. or S. C.; R. C. White Leghorn eggs \$1.50 to \$2.50 setting. A. R. GRAHAM, Flint, Mich.

PRIZE-Winning Birds 1909-10 Detroit, Pt. Huron, S. C. B. Leghorn Cockerels, 50 good laying hens, Eggs for hatching. CHAS. W. BUFF, Dept. M. F., St. Clair, Mich. Buff Rock Cockerels Good size, color, healthy, farm raised. Price from \$1.50 up. WILLIS S. MEADE, Holly, Mich. R. No. 3.

Y.B. BRAND-S. C. W. Leghorns. Bred to lay. \$1. per 15; \$5 per 100. C. W. YEITER, Alto, Michigan.

Don't Wait to Order eggs until you want them. Order early and avoid the April and May rush. A card will bring our mating list. I am booking orders now to be delivered later H. H. KING, Willis, Mich.

S. Write for particulars. LEWIS T. OPPEN LANDER, successor to Fred Mott, Lansing, Mich

R. C. R. I. REDS—Am now booking orders for eggs for spring delivery. Choice pens \$3 per 15; Utility pens \$2 per 15; \$5 per 100. B. A. Fraser, Fountain Farm, Rosebush, Mich.

M RS. FLORENCE HOWARD, Petersburg, Mich. Large, heavy laying W. Rock hens \$1.50 cach; Cockerels \$1; W. Rock and Rose C. W. Leghorn eggs \$2.50 per 50.

WHITE WYANDOTTE cockerels \$2.50, \$3, \$3 50 from heavy layers and State Fair prize win ners. A. FRANKLIN SMITH, Ann Arbor, Mich

DOGS.

TRAINED FOX HOUNDS and Hound Pups for hunting fox and coons. Also Collies. Inclose 2-cent stamp. W. E. LECKY. Holmesville, Ohio.

Collie Puppies sable with white markings thirty on h nd, more coming. Write to-day for prices. W. I. ROSS, Rochester, Mich.

altho having no possible use for them, had accepted them. It is plain that, realizing the need of a queen, and vainly in hope of securing one, they keep the drones with them in the expectation that they may be needed. It is in part also this same reason that a queenless colony builds only drone comb.

The life of the drone is regulated very largely by the workers, for he is usually driven off or killed by the workers long before he would die of old age. Any sudden cessation in the flow of honey from the fields is often sufficient reason for the drones being driven out to die, or the killing of them by stinging, if they are persistent in staying in the hive. So it is hard to tell just what age they might attain to, were they allowed to live to the age allotted to them, without persecution.

It has been many times observed that a virgin queen does not make a successful flight until the second or third attempt. If no drones were in the air except the one she was expected to meet, the chance of such meeting would be rather small, and the chance of being caught by some bird rather large. Besides, when a large number are present, there is a chance for selection. The most active and vigorous drone is the successful one, and this tends to the improvement of stock. One has but to observe nature to note that each colony has a large number of drones, and it may not be wise to make too violent a departure from nature. The probability is that in the average apiary there need be no anxiety as to a lack of drones, and the wise bee-keeper will take advantage of this by seeing that no drones are encouraged in poor colonies, but that they are suppressed in all but a few of the very best. If more attention were given to this there would be a distinct increase in the average yield of honey per colony.

Controlling the Production of Drones.

The common objection to the presence of many drones is that they constitute a horde of useless consumers which add nothing to the common store. Drones in an apiary are an expensive luxury. When they exist in large numbers they may consume the greater portion of the colony's surplus, and man acts wisely in preventing their being produced in such great numbers. When a number of colonies are congregated within a radius of two or three miles, the drones of one or two hives, if numerous in those hives, will very probably be sufficient to cover the space traveled by the young queens.

If we place drone combs in the center of one or two of our most populous colonies we will be much more likely to have early drones, and numerous drones, from such colonies than from others. On the other hand, if we take pains to remove the drone comb, as far as practicable, from all other colonies, and replace it with worker comb, in full combs or in patches, as the case may be, we will still more increase our chances of producing good males. It is, however, a fact that, work as we may, there will be hundreds of drones hatched in colonies where a superficial examination failed to reveal any perceptible quantity of drone comb. It is only when the cells are full of sealed brood that the projecting cappings of the drone brood show themselves with great display. At such times a very good way to dispose of them is to shave their heads off with an uncapping knife. The exchange of drone comb for worker comb, however, should be done before the breeding season has fairly begun. Two drones cost about as much to rear as three workers, and you can rear a very nice little swarm of workers in the same space in which you would have reared a host of idlers.

F. G. HERMAN. New Jersey.

Keeping the entrances clear of dead bees is an important matter, especially during the latter part of winter when the mortality is fairly heavy. Some well informed bee men are predicting that the winter now closing will show unusual death losses, especially in sections where honey-dew honey was common last season and where it was allowed to form a considerable proportion of the winter stores. This product is not a good one on which to winter bees, and if they are compelled to subsist on it for a long period it is likely to induce bowel trou', causing heavy losses directly or thru inducing the bees to attempt cleansing flights in unduly severe weather. Michigan, however, appears to have been more fortunate than some states in that the proportion of honey-dew honey produced last season was not large.

YOU Can Make **Poultry Culture Pay** 

It's not so much a question of any one particular breed, as how you handle the breed you have. If you possess a flock of "blooded" birds—well and good. But if yours are only "barnyard" fowls, don't be discouraged—they will pay you handsomely if you keep them healthy, happy, hearty and prolific by giving a regular daily portion (small) of

DR. HESS Poultry PAN-A-CE-A

in the soft feed. The effect of this preparation is almost marvelous. It gives the fowl perfect digestion, and that means the maximum nutrition is extracted from grain and "mash" and sent through the blood to make growth and eggs. Dr. Hess PoultryPan-a-ce-a is a tonic—not a stimulant, not a condiment, not a food. Its one sole purpose is to make food available; and that it does this is the voluntary testimony of thousands of satisfied users who are coining money in the heu business. This method of feeding is known among poultrymen the heu business. This method of feeding is known among poultrymen the heu business dearly by medical men who know the value of the elements of which Poultry Pan-a-ce-a is composed. It brings young chickens to early maturity; it helps old fowls to fat quick and tender. Pan-a-ce-a also cures Gapes, Cholera, Roup. etc. Roup, etc.

1½ lbs. 25c; mall or express 40c; 5 lbs. 60c; 12 lbs. \$1.25; 25 lb. pall \$2.50. Except in Canada and extreme West and South. DR. HESS & CLARK, Ashland, Ohlo Send 2c for Dr. Hess 48-page Poultry Book, free.

DEHESS STOCK FOOD If you are a farmer and own farm stock, Dr. Hess Stock Food is a necessity in your business. It's a tonic—acting directly on the digestive organs. A small dose in the grain ration, twice a day, maintains a regular, healthy action of all bodily functions in all animals receiving it. It increases appetite and at the same time gives the digestive organs power to carry the increased load. Thus it makes more milk in the cow; more flesh on the steer; and greater spirit in the horse.

SOLD ON A WRITTEN GUARANTEE

100 lbs. \$5.00. 25 lb. pail \$1.60. Except in Canada and extreme West and South.

Smaller quantities at a slight advance.

Send 2c for Dr. Hess Stock Book, free.

### INSTANT LOUSE KILLER KILLS LICE

5 Best 140-Egg Incubator Ever Made

\$4.50 Buys the Best Brooder Both Incubator and Brooder, Ordered Together Cost You Only \$11.50—Freight Prepaid

W HY PAY MORR? Investigate—send your name and address today, the easiest way, by postal or letter. I tell you the prices right here—and how my machines are made. You can have 30 or 60 days' trial on both incubator and brooder—and I'll send all money back if you return the machines to us as unsatisfactory. Be sure to send for my illustrated, free booklet, "Hatching Facts."

But, if in a hurry, you are perfectly safe in ordering right now from this ad. Thousands do this way every year. I guarantee to ship all orders sent from this ad on day received—(from warehouse nearest you, freight prepaid.) No disappointments.

Order a Complete 140-Chick Belle City Hatching Outfit. Send only \$11.50 for both Incubator and Brooder —freight prepaid when ordered together. You'll surely need the brooder, too. So make the savings. Satisfaction Guaranteed or money back. No risk, however you order. The editor of this paper knows me to be responsible—I've adversed in this paper for many years and treat my customers liberally.

I've always given my customers more for their money than any other incubator manufacturer in the world—that's why we do so much business.

Belle City Incubators will hatch more chickens—under

A penny's worth feeds 30 fowls one day. Sold on a written guarantee.

ch business.
Belle City Incubators will hatch more chickens—under Belle City Incubators will hatch more chickens—under the same conditions—than any other incubator made, or your money will be refunded. This I guarantee. Double walls—dead air space all over—copper tank and boiler—hot-water heater—best regulator—deep, roomy nursery—strong egg tray—high legs—double door—and everything that's any good on an Incubator—all in the Belle City. High-grade thermometer—egg tester—burner and safety lamp included. The Belle City Brooder is the only one having double walls and dead air spaces. I guarantee it to raise more healthy chicks than any other Brooder made. Hot-water top heat—large, roomy, wire runway yard, with platform—metal safety lamp and burner.

We Ship Quick from Buffalo, Kansas City, St. Paul or Racine

140-Egg

**Belle City** 

Incubator

Complete Hatching Outfit Only \$11.50 Over 50,000 machines in use—all doing perfect work. The Belle City should be your choice. Send your order now or send postal for "Hatching Facts" booklet and full particulars. Don't pay more than my price. No machines, at any price, are better hatchers or brooders.

J. V. ROHAN, President

BELLE CITY INCUBATOR COMPANY

Box 14, Racine, Wis.



140-Chick Belle City Brooder Only \$4.50



**WISCONSIN INCUBATOR** If ordered together we send both machines for \$10.00-freight paid east of Rockles. Hot water, double

tockies. Hot water, double dairy specific the dairy specific the dair space between, top has three walls, double glass doors, California Redwood, copper tanks inderneath egg-tray. Both Incubator and Brooder shipped complete, with thermometer, use when you receive them. Incubators finished in natural wood showing exactly be out will compare our machines with others offered at anywhere near our price, we will up until you do this—you'll save money. It pays to investigate the "Wisconsin' before work and the success they are having with our machines, vidence you could get. Send for the time catalog today or send in your order and save the urnal or The Commercial and Savings Bank of Racine, Wis. about our responsibility.

Thos. J. Collier, Mgr., WISCONSIN INCUBATOR CO. Box 111, Racine, Wisconsin

Wis. Inc. Co.

Dear Sirs:—We received the Incubator and Brooder in good shape, and to our surprise, not having any experience with incubators, the first hatch was 94%, the second was 96% and the third, 98%. We did not know anything about operating the machine, but old, experienced poultry men say that is a grand record.

J. F. BELTZ, Prop. Ideal Farm.

Wis. Inc. Co.

Dear Sirs:—We are well pleased with the incubator which we bought of you. We obtained good results with it. Frond St. fertile egg we got 416 chicks. I think it was a good hatch. I do not think any incubator can beat that. The Wisconsin is JOHN DOUGLASS.

guaranteed for 5 years. Wis Inc. Co.

Gentlemen:—I had good success with your incubator. If got 93 chicks from 97 eggs and 97 chicks from 103 eggs. I think the Wisconsin is a fine machine. There may be others as good, but I don't think there is any better. I have neighbors who will send for one this winter. They are so well pleased with mine.

HECTOR DENNISON.

Write To Us And Get Acquainted

With What We Have to Offer A letter or postal—either one will do then we'll send you our Racine Incubators turn healthy eggs into healthy chicks every time—and give the highest percentage of hatches. They are sure—safe—and simple—made to last a lifetime—sold at prices lower than anybody else will quote you for the same quality—and they make money for you right from the jump and give everlasting satisfaction. Write and get our proposition—our literature is free. Free Trial plan—best ever offered. Don't delay—Write for full information today.

RACINE HATCHER COMPANY

RACINE HATCHER COMPANY, Box 54, Racine, Wis.



90% Hatches

CYPHERS INCUBATORS and Brooders are non-moisture; self-regu-lating; self-ventilating. Write for 160-page Catalog. Address Nearest City.

WHEN writing to advertisers just say "Saw your ad. in the Michigan Farmer."

### THE MICHIGAN FARMER.

#### The Michigan Farmer ESTABLISHED 1843.

#### THE LAWRENCE PUBLISHING CO., EDITORS AND PROPRIETORS.

39 to 45 Congress Street West, Detroit, Michigan. TELEPHONE MAIN 4525.

NEW YORK OFFICE—725 Temple Court Building, CHICAGO OFFICE—1736 First Nat'l Bank Building, CLEVELAND OFFICE—1011-1015 Oregon Ave., N. E.

M. J. LAWRENCE	President.
I. R. WATERBURY O. E. YOUNG BURT WERMUTH	Associate Editors.
B. H. HOUGHTONBusiness	Manager.

#### ME OF SUBSCRIPTION

IERMS OF SUBSCRIPTION	
	\$2.00
Three Years, 156 Copies, Postpaid,	. \$1.50
One Year, 52 Copies, postpaid	. 15 Cta.
Six Months, 26 copies, postpaid,	

Always send money by draft, postoffice money order, registered letter, or by express. We will not be responsible for money sent in letters. Address all communications to, and make all drafts, checks, and postoffice orders payable to, the Lawrence Publishing Co.

#### RATES OF ADVERTISING:

40 cents per line agate measurement, or \$5.60 per inch, each insertion, with a reasonable discount on orders amounting to \$20 or over. No adv't inserted for less than \$1.20 per insertion.

No lottery, quack doctor or swindling advertisements inserted at any price.

Entered as second class matter at the Detroit,

Michigan, postoffice.

COPYRIGHT 1910
by the Lawrence Pub. Co. All persons are warned
against reprinting any portion of the contents
of this issue without our written permission.

WE GUARANTEE to stop THE MICHIGAN FARMER immediately upon expiration of time subscribed for, and we will pay all expenses for defending any suit, brot against any subscriber to The Michigan Farmer by the publisher of any farm paper, which has been sent after the time ordered has expired, providing due notice is sent to us, before suit is started.

Avoid further trouble, by refusing to subscribe for any farm paper which does not print, in each issue, a definite guarantee to stop on expiration of subscription.

The Lawrence Pub. Co.,

Detroit, Mich.

#### DETROIT, MARCH 5, 1910.

#### LEADING ARTICLES OF THE WEEK.

High Prices and the Farmer.-A discussion of the advantages and dangers of the present era of high prices to the farmer ...... Story of the Breeds .- A brief history of the origin and development of the Red Polled breed of cattle.....228 Number of Drones Needed in An

Apiary .- How production of drones may be controlled to the advantage 

tremely interesting word picture of life and customs in the agricultural regions of the south.....237

Other Magazine Features .- "Back to the Country," a story of real heart interest to both old and young; "Grandmother's Logic" and "A Narrow Escape," stories that will please our younger readers .....238-40

What's What in Summer Cottons.-An illustrated discussion of materials that will interest every woman who loves to know the latest patterns in dress goods ......242

Plan for Dairy Barn .- Important features that make for convenience and economy are pointed out by Mr. Lillie in answering a query

Orchard Fertility.-Some timely advice which, if not exactly true, should be seriously considered by the prospective fruit specialist ......252

#### CURRENT COMMENT.

Post.

Organizations of merchants are arrayed against it, and if the people get Prof. an adequate parcels post, they must rise Indeed, they will be actively working for subject of drainage, Prof. Jeffery stated tivity. In his later lectures he emphasized

This is a propitious time to take such when fully saturated. But drainage has if it does not provide for all that might be ally understood. By removing the excess tablish this system on much broader lines temperature of the soil is raised by sevthan it now exists and in a manner to eral degrees. This difference in soil temlargely forestall the objections of every perature on well and poorly drained soils, class now arrayed against it, except the is an important factor and one not genexpress companies, which powerful influerally appreciated or understood. Aside ence will naturally always be opposed to from its well known influence in the con-

ment if adopted. There is one proposed. amendment to the constitution of the state to be submitted to the electors at the election to be held on Monday, April 4, 1910, the text of which is as follows:

No county shall incur any indebtedness which shall increase its total debt beyond three per cent of its assessed valuation, except counties having an assessed valuation of five million dollars or less, which counties may increase their total debt to five per cent of their assessed valuation.

The practical effect of the proposed amendment would be to give counties the right to increase their total debt to five per cent of the total assessd valuation.

#### THE ROUND-UP INSTITUTE.

As previously noted in these columns, something of an innovation was introduced in the program for the annual Round-Up Institute in the way of short course lectures upon soils, fertilizers, and crops, delivered by members of the college faculty, which made up the forenoon program each day during the week.

several divisions covering their origin, nature and distribution, their resources in plant food, the effect of their physical condition on the availability of plant food, and soil temperature and its control. Necessarily these lectures must have been heard to get anything like their full value from them. It is unnecessary to repeat here what Prof. Jeffery said regarding the origin, nature and distribution of soils. Their resources in plant food is of more practical interest to the Much has been readers and on this subject Prof. Jeffery Help Get the Parcels said and written stated that chemical analyses showed the soil to contain sufficient plant tablishment of an food to last for a great many years, the place upon this daily program of lectures, adequate parcels post in this country, problem, so far as successful agriculture the first subject being "How Plants Feed Practically every resident of the rural is concerned, being that of making it and Grow," followed by "Farm Crops and communities of the state and nation are available for the growing crop. Thus their Improvement." "Farm Crops and in favor of it. Local, county and state good culture in the preparation of the their Rotation," "The Preparation of Soil meetings of Granges and Farmers' Clubs seed bed and persistent cultivation in for farm Crops." The practical feature have passed resolutions favoring it, yet caring for the crop are important factors of this course of lectures really began passive advocacy of this sort will not in making this plant food already in the with "The Improvement of Farm Crops." bring about its establishment. Powerful soil available and in securing maximum In this connection he believed that iminterests are opposed to it. It would re- yields. Regarding the effect of physical provement by individual selection rather duce the profits of the great express com- conditions on the availability of plant than any other system of grading seed, is food, and the control of soil temperature, to be desired. In corn, for instance, he essentials relating to the proper physical portion of the corn from a few of the up in unison and make their desires condition of the soil which should always best ears available, in separate rows. known. The congressmen from the rural be borne in mind, i. e., drainage, cultiva- Then the following year would mix the districts will not oppose a proposition for tion, and the presence of sufficient or- seed from the balance of the ears giving

ested person to write his representatives growth of plants, when its content of these three-year periods to complete in the national congress to that effect, water was about one-half its capacity. It is impossible to give anything li desired in the way of a parcels post, moisture from below instead of compelling sues, in the departr would at least, if passed by congress, es- its evaporation from the surface, the discussion is suited. a proposition which would make their servation of soil moisture in a dry season-business less profitable. But, on the and the necessary destruction of word and the necessary destruction of words and the greatest and the necessary destruction of words and the necessary destruction of words and the greatest end that the necessary destruction of words and the greatest end to the proceeded it, it was held at the adjust that the necessary and the greatest good to the greatest number undoubtedly industration of the backboard the industry of the five words and the greatest process of the process a proposition which would make their servation of soil moisture in a dry season business less profitable. But, on the and the necessary destruction of weed other hand, it would prove beneficial to pests, cultivation also has an important

and commercial fertilizers, their souther and nature. The writer did not hear Prof. Kedzie's first lectures, but to the reader the subject matter of his last two lectures will be of greater interest, since the adaptability of farm manures for the growing of crops is generally recognized, and understood. Referring to their care and handling, Prof. Kedzie emphasized a few dont's; one being, don't use lime as an absorbent in the stable, as this will surely liberate the available nitrogen in the manure. Another don't along the same line referred to the mixing of ashes with the manure of any kind, which will bring about the same result. Regarding the care and handling of farm manures, Prof. Kedzie referred to the manures, Prof. Kedzie referred to the manure of farm manures, Prof. Kedzie referred to the manure of farm manures, Prof. Kedzie referred to the manure of farm manures, Prof. Kedzie referred to the manure of farm manures, Prof. Kedzie referred to the manure of farm manures, Prof. Kedzie referred to the manure of farm manures, Prof. Kedzie referred to the manure of farm manures, Prof. Kedzie referred to the manure of farm manures, Prof. Kedzie referred to the manure of farm manures, Prof. Kedzie referred to the manure of farm manures, Prof. Kedzie referred to the manure of farm manures of the classes than the total manumber of the show of corn was very small, a number of the classes that were young to the same proof that, despite the rather unfort of ill. The samples were scored by Mr. Winter, and the scores are sufficient proof that, despite the rather unformation to savorable season last year, fully as good corn was shown as at any preceding contest, altho the average quality would established at last year's show.

In District 1, comprising the four lower tiers of counties, awards were made as follows, names of exhibitors and scores being given:

Class A—Yellow Dent—Jessie W. Pickett, Kent Co., 80.3; Earl Pickett, Kent Co., 80.3; Earl Pickett, Kent Co., 80.3; Earl Pickett, Kent Co., 50.5; Wm. Ambler, Jackso and nature. The writer did not hear of farm manures, Prof. Kedzie referred to the possible conservation and fixing of the nitrogen which they contain by the use of ground phosphate rock and acidulated rock or acid phosphate. He very much preferred the latter substance for this purpose, since the active sulphurio acid in the acid phosphate amounting to something like 14 lbs. to the hundred, is just what is needed to fix the nitrogen in a form which would prevent its escape. Prof. Jeffery's subject was "Soils," its Prof. Kedzie commented upon this method of handling farm manures and the losses resulting from those methods which, however, are quite generally understood by the readers. In his lecture he touched upon the several sources of the three essential elements of plant food in widely separated countries, and described the forms in which they are rendered suitable for use upon growing plants, the lecture being more in the way of information regarding the source and form of these different plant food elements than their use in applied agriculture.

Prof. Shoesmith had the third and last Jeffery stated that there are three would plant in a seed breeding plant a which their constituents are clamoring, ganic matter in the soil. Touching on the the best results in this test for produc-

it under such conditions, and all that is that experiments showed that a soil was the importance of a proper rotation, favnecessary to bring about adequate legis- in its best physical condition so far as oring a three-year rotation within a lation along this line is for every inter- moisture is concerned for a maximum longer one, each cycle taking four of

It is impossible to give anything like a complete review of these lectures in the action. Congress is now in session and another, and perhaps more important ef- space available in this issue. Essential has under its consideration a bill which, fect upon the soil which is not so gener- points relating to this program will be touched upon in this and succeeding issues, in the departments to which their

#### A PROFITABLE WEEK FOR CORN GROWERS

In spite of a small attendance and a rather mediocre showing of corn, this year's meeting of the Michigan Corn Improvement Association was generally regarded by the members present as a more profitable and satisfactory meeting than

Ingnam Co., 41.6; Will. Alibler, Galassian Co., 49.8.

Class C—White Cap Dent—Geo. Clapp,
Lenawee Co., 77.8; C. H. Sudborough,
Lenawee Co., 72.1; D. E. Turner, Jackson
Co., 66.7; Jos. Kuhn, Ingham Co., 50.6.

Class D—Other Dents—Jesse W. Pickett, Kent Co., 70.7.

Class E—Flints—G. J. Friedrich, Jackson Co., 91.5; J. B. Hood, Lenawee Co.,
86.5.

In District 2, comprising the remainder of the lower peninsula, the following awards were made:
Class A—Yellow Dent—E. O. Ladd, Gd. Traverse Co., 66.1; I. A. Kierstead, Montcalm Co., 65.6; G. A. Arnold, Montcalm Co., 64.7.
Class B—White Dent—G A. Arnold, Montcalm Co., 54.8.
Class C—White Cap Dent—F. C. Arnold, Montcalm Co., 63.1.

Associational Class—This class was open to all local corn growers' associations in the state. The awards went as follows: Kent Co. Assn., 74.3; Lenawee Co. Assn., 73.1; Mason Assn., 56.4; Jackson Co. Assn., 51.5.

At the business meeting of the Michigan

At the business meeting of the Michigan Corn Improvement Association, held on Wednesday evening, Feb. 16, the Association's board of directors was authorized to appoint a county vice-president from each county in which the Association has membership. Thru these vice-presidents the heard will tion has membership. Thru these vice-presidents the board will endeavor to secure a closer and more general affiliation of local corn growers' organizations with the state association. Officers for the ensuing year were elected as follows: Pres., Prof. J. A. Jeffery, Agricultural College; vice-pres., E. M. Moore, Wixom; sec.-treas., Prof. V. M. Shoesmith, Agricultural College; directors, W. F. Raven, East Lansing, A. L. Hopkins, Bear Lake, and J. W. Hutchins, Hanover, W. F. Raven was elected state vice-president of the National Corn Association.

#### HAPPENINGS OF THE WEEK.

Foreign.

Russian military circles are fearful that trouble will break out with China over the construction of another road across Mongolia. To avoid bringing things to a crisis the foreign department at St. Petersburg has addressed the interested (Continued on page 247).

# Magazine Section

LITERATURE POETRY HISTORY and **INFORMATION** 



The FARM BOY and GIRL SCIENTIFIC and MECHANICAL

This Magazine Section forms a part of our paper twice a month. Every article is written especially for it, and does not appear elsewhere

### XIF—BY KATHERINE ATHERTON GRIMES.

those who wish to propagate a boom.

land and people to thoroly familiarize one tice of those fundamentals which are a is held at arm's length, or considered as nal success. a stranger, for there is no country under

honor to consider all things good of a stranger until the contrary is proven. Even then the judgment is apt to be charitable.

The south is the Rip Van Winkle of the nation The long sleep of the past years has been a necessary healing agent. The blows delivered to southern industry by the Civil War were well-nigh fa-tal. To reassemble the scattered forces, and readjust affairs to the altered conditions, has been a slow and painful process. All thru these forty silent years the work has been quietly going on, and not the least admirable trait of the southern people is the uncomplaining patience and perseverance with which this Herculean task has been

The veins of trade could the suffering entailed by the great strugchange in labor conditions with the close of slavery days, all contributed to retard

been sown so soon. Near the more considerable towns,

the country on the sunny side of districts to take on a polyglot of method trackless woods, and a general jumble homes set back "a right smart little step" superficial, and much wilfully distorted. all. About seven out of every ten northend of the trip you are still a rank out-Necessarily, false ideas have gained creern farmers know all about farming when sider. A better way is to find a farmer's thruout the north, both to the they arrive, but they find that Experience wagon in town with a bundle of corncredit and discredit of this land and its opens many books they never knew she It takes years of association with both bor. This, in conjunction with the prac-

the sun where the new-comer is taken ment any community, are held by both and rabbit-trail, and is at home where a so absolutely on credit as in this land of northern and southern owners. These stranger might wander for hours without like an initiate. No longer on the outside, universal hospitality. It is a point of speak loudly of latent possibilities, and even knowing "the way to Heaven"—an you have had a glimpse of the real inner

OLUMES have been written about ern, capital and labor, has caused such alternating strips of fertile "bottoms" and About seven out of every ten north- end of the trip you are still a rank out-Many fine farms, which would orna- get lost. He knows every timber-road taste, and to be unhealthy.

Mason and Dixon; much of it that may hardly be called a method at of meaningless information. But at the from the "big road." Very often this "little step" is half a mile long. The buildings are so situated on account of springs, of which there is an abundance fodder in the back (a sure sign of a long in the hill country. The southerner depeople. Correct ideas can be gathered had. After a few years of unprofitable journey) and "make up" with the driver spises a well as a makeshift and a harneither from mere passers-by nor from experimenting, they learn to take counsel for a "carry." He will be glad of com- bor for "frawgs" and "Betsey-bugs," and of the knowledge of their native neigh- pany, the pace of his long-eared steeds will go a mile back to a spring, or build will allow you to see most of the country, a cistern, instead of using a well. When and if you are addicted to the weed, his a well is inevitable, a bucket and windwith either. This does not mean that one benefit anywhere, usually makes for sig- hank of "pigtail twist" is as free as the lass are the means of elevation employed, air of his native hills. Moreover, he won't Pumps are reputed to make the water

At the end of your journey you feel

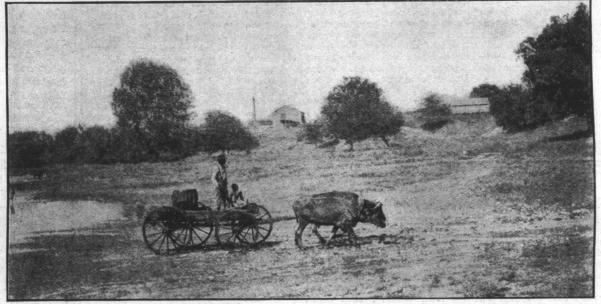
circle. Where the wagon at last leaves the highway to follow an indistrack thru the woods, you are cordially invited to continue on with your new acquaintance. If you are wise, and have no other definite plans, you accept.

The house, nine times out of ten, will be a double log structure. There is a wide, open hall dividing the two parts, and a great chimney stands at each end, reminiscent of roaring fireside comfort when the year wanes. As likely as not, the few windows will be furnished with wooden shutters in lieu of glazed frames. "Why not?" is the potent argument; "they are always open, anyway." The tenth time the log house of former years will have been replaced by a flimsy box affair, having two,

not flow full until the heart back of may be considered as in a sense typical, elaborated equivalent for "straight up." or at most three, rooms, the third being them began to beat strongly and reguThey, however, are of the new order, and If there is one thing more than another a lean-to cook shanty. Often the latter
larly. The heart of the south, like that hardly represent average conditions farthat is a stumbling block to a new-comer, will be detached from the house by a

> The interior strikes a stranger as bare and cheerless at first. Not once in forty times is there a carpet, and beds are the principal articles of furniture, as well they need to be in the average family of a dozen or so. Two to four are usually in "the room," while the chances are that a couple more are in the "fur" corner of the cook room. These are always the housewife's pride, and are pictures of

The welcome is so hearty that the cheerlessness vanishes like a mist, and branch off at each side of the highway, in its place stands a comfort as bright



A Dixie Water-wagon-The Southern Farmer Prefers Spring or Cistern Water, Considering Wells Unsanitary.

of the north, is in the right place—on ther back from the towns. The wave of it is the tortuous twisting of the "plain dozen yards or so. the farm. Here, it goes without saying, progress breaks against the hills, and beroads" which he is informed he "cain't the suffering entailed by the great strug-comes discontinuous. Now and then, miss." Cross roads, connecting the main and cheerless at fi gle was most severe. The utter destruc- even there, a hardy northern immigrant lines of travel, are even more delusive. tion of rural property, the loss of man- has imported foreign ways, but the bulk aging hands, as well as the very radical of the back country is, and always will be, in the hands of native owners.

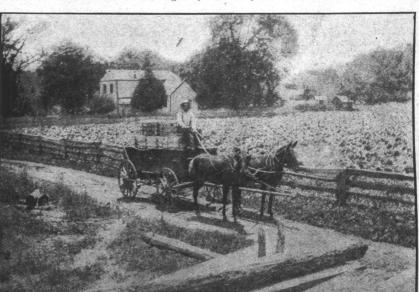
agricultural growth. It means much his average best, you need to drive back that the seeds of a new growth have from the county seat, which is always the most important center, a matter of from twelve to twenty miles. You can hire a farming ways and means are quite simi- livery, and make the round trip quickly the road. There appears, however, to be lar to those of states farther north. The and easily, and come back with a conconstant influx of "foreign," i. e., north- fused remembrance of hills and hollows,

Old hands at trail following are more than likely to wind up in a goose pasture, instead of at the desired point, having If you wish to see the native farmer at mistaken the significance of "that ar" his average best, you need to drive back fust plain lef' hand turnin'," from the superabundance of "bresh" adorning its "plain" features.

There are few houses to be seen from neatness and rounded comfort, considerable traffic, and numerous tracks



Typical Southern Cabin of the Better Class. Note the Chimney of Field Stones.



Average Tennessee Farm, Owned by a Northerner. Cabbages are Main Crop.

afternoon sun, which touch the whole ways preferable to old, as worn soils are the room that was to be her very own scene to tender beauty. The whole at- seldom brot up, and corn, corn, corn, for mosphere is one of welcome, and the hills twenty years is hard on the constitution. set it so apart from the world and its An old field is "laid by" to rest, it being make-believes, that you cannot help feel- believed that a few years of idleness and ing the sweet sincerity of it all.

"old man" is hungry-the invitation to ringing the trees, to deaden them and "set by and eat up a little snack" is fol- prevent sprouting from the roots, and "I bot them for you, mother," answered lowed by an apologetic "We-uns is pore fine crops may be secured even before John's wife. "When I visited you in Chifolks, an' don't set on much, but I reckon further clearing is done. yo'-all kin maybe stan' it fur onct." This is entirely uncalled for, as the event pulled" early in the fall while the stumps, proves, and such a spread as is found up- with the hardening ears, are left until and the next day we drove over toward on a "company" table in the south will considerably later. Nothing must inter- the old place. We hunted up the people make your mouth water every time you think of it for months.

Butter, to be sure, is usually missing. for food. The whole milk is churned every day, for the sake of the buttermilk, And fine fodder they make. which is highly esteemed as a drink. The butter is now sold in town. It was formerly thrown away, or used for grease. that is about all it is fit for.

of delicious dry-cured ham. of perhaps three or four of these record- a hin," asservates your hostess breakers, together with as many fifty-pound "stands" of lard. It is not una dozen or fifteen pigs, weighing from a killin' weather" comes on. These pigs run loose in the woods all summer, and are finished up in the late fall with bounteous feeds of corn, thrown just outside the front gate.

"Cawn" is the main crop of your host's farm, as you have already gathered. In you see a vigorous crop, broad-leaved and ears:

weeds is a powerful invigorating tonic. When the meal is ready-soon, for the A patch of new ground is prepared by

The corn is topped and the "fodder fere with "fodder pullin' time." Old and who had purchased your things at the young, women and children, work early and late, stripping the wide, succulent It has only recently been considered fit blades, and tying them in bundles, which they hang in the forked stumps to dry.

The ears are pulled from the stump, "shuck" and all. They are thrown into wagons and stored in cribs. A field of Indeed, considering the way it is made, shocks, or a crib of bare ears is a sure mark of northern hands. It is sold by Meat will appear in foot-square slices the barrel, of five bushels. It takes a You will tenderfoot some time to learn to figure be casually informed that "thet thar prices, as the customary measurements sick I have been for these old things." hawg weighed fo' hunnerd poun's," and differ from what he has been used to. She was like a child as she went from the customary measurements are the customary measurements and the customary measurements are the customary measurements. that another promising specimen would Blackberries sell by the gallon, as also "sure go a heap heavier, 'gin it's hawg- does milk, butter by the "print," a pound killin' time." A glimpse into the smoke- more or less, fowls at so much apiece, does milk, butter by the "print," a pound the little stand, she opened the drawer house, opened with pardonable pride, will regardless of weight. "I wouldn't think show you the swinging hams and sides of charging moah than a quahtah fo' just

It is not un- acquaintances up the creek (long city. She had thrown it aside and purcommon for a fair-sized family to put up double-e, please), for you need some plan chased a nice new one with a lot of maps to parry the hospitable invitations exhundred and fifty to two hundred pounds tended. As you leave, your courteous each, and render out six or eight stands host and pleasant hostess, the nine shy longed for the old one, with its many of lard, every fall as soon as "hawg- children, and the seven "houn'-dawgs," marked passages. gather at the front gate to honor your That evening, when they were all sit-farewells. Special attention is drawn to ting around the lamp and talking of the one pup, uglier and more lop-eared than the rest, and you are invited to "come quired: "Mother, do you think that you back 'gin it's 'possum time, and we'll see what thet thar pup knows.

As you follow the spring path around a field of standing timber, deadened and the turn of the branch, you look back to breshed out," growing in furrows torn wave a last goodbye, and the echo of the in the virgin soil by a bull-tongue plow, hearty farewell lingers musically in your "Yo'-all come back again."

and mellow as the golden rays of the luxuriantly colored. New ground is al- time, Mrs. Clinton was invited to inspect It was pleasing to see the great pleasure she evinced upon entering that room.

"Why," she exclaimed, "this looks just like the last carpet I had woven. An' if there ain't my old mahogany bureau, an' my bed, an' all the other things. Where did you get them all?"

cago I saw that you were not happy, but longed for the old times and the old things. When I came home I told John, sale, and when we told them that we wanted to get them back for you they were willing to accommodate us. I know that they will make you feel more at home, won't they mother?"

Mrs. Clinton looked up from the chair where she was sitting, with tears streaming from her eyes. "Make me feel at home?" she inquired. "Why, these are what I have been longing for. These old things that Eben and I had for nearly fifty years. You don't know how home-

She was like a child as she went from one of the things to another. Coming to and was surprised to find her old, wellworn testament in it. The testament had been given to her when she was a small girl, but Agnes had insisted that it was At last you depart, to seek hypothetical too old and ragged to be taken to the and pictures in it. Mrs. Clinton could get no comfort from reading it and had

happenings of the last year, John inwill be satisfied here, after your stay in the city? After all of the noise and excitement you have been among I am afraid that you will get lonesome.

"Why John," answered the old lady "this is just what I have been longing for. You don't know how I have longed for a sight of the old fields, once more. I don't feel like I could ever leave your home.

"And you never shall," John declared as he kissed his mother's wrinkled cheek.

The following evening, when John returned from his day's labor in the fields, he peeped in at the open door of his mother's room. She was sitting in her old chair, rocking gently back and forth. The well-worn testament lay open upon her lap, and a half-finished ball of carpet rags was upon the floor by her side.

#### THE SPRING WILL COME.

BY B. F. M. SOURS. The winter's blasts, the raging storm, Beat like wild war abroad.
The hillsides now, with glittering ice, Must be with caution trod.
The stubbled fields are burled deep—Beneath the winds that blow—Beneath a mantle cold and white, The winter's cloak of snow.

The rivers pause upon their course
And flow not to the sea.
The ice-locked country, bleak and chill,
Sings one weird song to me.
'Tis desolate, all desolate,
In grandeur all its own,
The while we wait the winter's age
And passage from the throne.

Sweet banks of daisies, white and gold, Stir now my ardent dreams.
The ferns I see, in reverie,
Nod to the sparkling streams.
Brier-roses bloom along the ways, In old fence corners, where The hand of man forgot to plow Or dig about with care.

Dreams come to me of stalk and tree All covered o'er with bloom. No night so dark, no gloom so deep— Except the night of doom— But dawn will break and man awake; And so will winter pass. O violets, what breath is yours— But will you come? Alas!

Come, bluebird, sing your song to me!

I wait to hear you sing.

The apple blossoms soon will come;

We want the touch of spring.

## "KODAK on the Farm"

is the title of a beautifully illustrated little booklet that not only tells of the pleasure and profit there is in owning a camera in the country, but explains the simplicity of the Kodak method of picture taking. There's no dark room now for any part of the work-no heavy plates. Anybody can Kodakbut send for the book. It's free by mail or at your dealers.

EASTMAN KODAK CO. 389 STATE STREET ROCHESTER, N. Y.



This rifle is built for settled districts, where good range and killing power are desired, with safety to the neighborhood.

The Marlin .25-20 is a light, quickhandling, finely-balanced repeater, with the solid top, closed-in breech and side ejection features which make Marlin uns safe and agreeable to use and cortain in action.

It is made to use the powerful new high velocity smokeless loads with jacketed bulleto as well as the well-known black powder and low pressure smokeless cartridges, and is the ideal rifle for target work, for woodchucks, geese, hawks, foxes, etc., up to 300 yards.

This rifle and ammunition, and all other Marker repeaters, are fully described in our 136-page catalog. Free for 3 stamps postage.

The Marlin Firearms Co., Willow Street, NEW HAVEN, CONN. 127 Willow Street,

#### E PAY \$90 A MONTH SALARY and all expenses to introduce Poultry and Stock Pow-ders. Steady work. GRANT CO. 5, Springfield, Iil.

Wanted Agents, to sell the Farmers' Account Book.
Quick seller. Big inducements. Exclusive
territory. Address L. L. Syphers, Fort Wayne, Ind.

Let Me Start You in Business! will furnish the advertising matter and the plans, want one sincere, earnest man to every town and ownship. Farmers, Mechanics, Bullders, Small usiness man. anyone anxious to improve his contition. Address Commercial Democracy, Dept. D 30, Elyria, Ohio.

WANTED FURS and HIDES.
We pay you the price on our list. WANT LU We pay you the price on our list, No more. No less! Write for price list and tags. H. M. PETZOLD, 1033 S. Claremont Ave., Chicago, Ill.

PATENTS WORTH FORTUNES In ventors: Send 6 cts. for our Valuable Patent Book R. S. & A. B. LACEY, Dept. 89, WASHINGTON, D. C. Est. 186

### BACK TO THE COUNTRY BY HOWARD BANNON.

the place that she could scarcely bear the thot of leaving it.

Here it was that her two children had er and lived upon a fine farm a few miles who was now one of the great merchants of Chicago.

But when Mr. Clinton had passed to the great beyond and Mrs. Clinton was left alone upon the old farm, it was necessary to break up the home. The question of Mrs. Clinton's future had been quickly decided by her daughter.

"Mother must go to Chicago and live want her to be free from all cares. She will not have a thing to look after, in our house. The servants attend to everything."

the farm after her father's funeral. She to her notion, not worth keeping.

durate, however.

"Why, mother," she had said, "we at the Clinton sale. couldn't take that big, clumsy thing to I have a nice oak set for your room."

sale. Every one of the articles was full of tender memories to her. When the day of the sale arrived she shed many tears at seeing the things carted away.

At last the affairs were all settled. With the few trifles she had managed to keep, packed away in the shiny new trunk (the trunk was not half as nice her daughter, for her new home.

Mrs. Clinton's new home was fine and

The time when the old home and all wonderful. How odd it seemed to have of its furnishings must be sold, had ar- a servant, ready to do your bidding at rived. Nearly a half century before, any moment. For awhile Mrs. Clinton Eben Clinton and his wife had begun was pleased with the novelty of the housekeeping in the old stone house. That place, but she soon grew tired of having had been a long time ago and Mrs. Clin- nothing to do-no chickens to feed, no ton had become so deeply attached to cows to feed, no carpet rags to sew, but just idleness from morning until night. To be sure, her room was finely furnished, but the Brussels carpet, the oak grown up and gone into the big world. dresser and the chiffonier were not half Tom, like his father, had become a farm- as nice as a rag carpet with its fancy stripe and the big mahogany bureau. Then away. Agnes became the wife of a man there was a folding bed, and Mrs. Clinton went to bed in fear, each night, lest it should fold up and smother her. Of course, it had a mattress. Oh, how she longed for the soft, warm feather-bed she had been used to all of her life.

Mrs. Clinton had been living in her new home for nearly a year when John's wife went to the city on a visit. She remained with John's mother for several with me," she had said. "There is plenty days and easily saw how unhappy that of room in our big house, and then I person was. Before returning home she had secured Agnes' consent for Mrs. Clinton to spend several months with John

and her at their country home When John's wife returned home she Agnes had taken charge of things on told her husband how unhappy his mother was in her city home. She told him of at once announced that they would sell the intended visit to them, and of a little everything. The things were old and, plan she had thot out while on her way home. John heartily agreed to his wife's Mrs. Clinton had hated to part with the scheme and the very next day they drove old things. She had hoped that she might over to the vicinity of the old Clinton O be able to keep the old-fashioned ma- homestead. Upon their return home that hogany bureau, at least. Agnes was ob- evening the wagon was loaded with quite a number of the things that had been sold

The next day was a very busy one in the city. Then, it would not match, for John Clinton's house. All of the furnishings of one of the spacious lower rooms It was a great trial to Mrs. Clinton to were remo--- and a rag carpet, the last one that John's mother had made, was placed upon the floor. The old mahogany bureau occupied one corner of the room, while a large, old-fashioned bedstead, with an enormous feather-bed, stood in another. Quite a number of other things see them preparing the things for the one that John's mother had made, was another. Quite a number of other things that had been in the old Clinton home were in the room, also.

After a few days, John left for Chicago. looking, to her, as the hair-covered one A few more days passed by and he rethat had been sold) she departed, with turned, accompanied by his mother. His wife gave her a hearty welcome. After resting in the sitting room for a short

How do they come? How can they come?
This mystery to me.
From out the barren clods of death
They break mysteriously.
Earth seems to don the garb of Heaven,
A vestried choir, to sing
The passage of the winter, and
The praises of her King.

We want the touch of spring. Thank God for hope! We live; we toil; Life grieves o'er sorrows here.
But hope and spring, with Christ our
King,
Await with joy and cheer.

#### THE MICHIGAN FARMER.

SUGGESTIONS FOR WHITTLERS.

Making a Pair of Pliers.

about to describe has been whittled from

straight-grained wood free from flaws,

34 inch thick, about 11/2 inches deep, and

in plan and elevation. The two short

clear thru the wood, as also are the hori-

2, b, b). But the short vertical lines

6 or 8 inches long.

When a pair of pliers such as we are

#### FATHER'S BEAR HUNT.

PY MARIETTA WASHBURN.

It was in the midst of winter, In one of the timber states, That father first went hunting bear And the tale ofttimes relates.

They were camping in a cabin A few other boys and he, Where they had the gayest times And were happy as could be.

All day long within the timber One could hear their axes ring, Where the birds in happy summer Every morning used to sing.

It was evening in the cabin And their axes ceased to ring; One of them had gone with bucket To get water from the spring.

Soon the still of night was broken— Frightful noises filled the air As the boy, without his bucket, Entered with, "A bear out there."

Each one took a gun or pistol
Or a lamp or butcher knife,
And ran from out the cabin.
To seek the bear and take his life.

O, they ran and fell and stumbled, Hunting for that bear's big track When my pa gave up disgusted, Turned around and started back,

Then he heard familiar noises— Something drinking from the stream. Had he not been a hunter bold The boys would have heard him scream.

If my pa had not been frightened He would surely have had to laugh; For there he was—not the bear— But a little Jersey calf.

#### GRANDMOTHER'S LOGIC.

BY A. P.

Robbie Greene was always in a hurry, and he could not take the time to do anything in the right way. Whenever he wanted anything, this same spirit of unrest would show itself, and he would say that he could not wait. To prove that he was really in earnest, great tears would well up in his deep blue eyes and roll down his rosy cheeks.

If the object or plaything was close at hand he would be sure to get it by this and silver-rimmed "specs" on, he could means. Or, just as often as he failed in not help but love and respect her. doing this, he would be given pieces of ways pleased him.

He was petted by all about the house. loved them very much in return.

The patter of his little feet over the floor was a pleasant sound to hear. He knew many pretty poems by heart and could say them quite well for a child of his age. When he came into his grandmother's room he always tried to do his very best and to look as neat as he could. When he would speak his pieces or sing his songs for her he was sure to do it better than at any other time.

•Somehow or other he always looked upon his grandmother as being quite a different person from all others that he knew. Her little room was always kept so tidy and neat, everything being in the



A Word from Jack.

The above post card has just been received from Jack. be pleased to note that he is looking well. mother, you are right!"

right place. There was a little clock that did a great deal of buzzing just before it struck and made one think it would surely go to pieces, but to tell the truth it would strike with a sweet, soft sound like the ringing of a silver bell. The stand was as square as it could be, and never failed to have its snowy cover. In one corner of the cover was the picture of the sun, a rooster, and a child who looked like it might be crying or laughing, just as one might happen to think.

Robbie often wondered what they lines (Fig. 1, a, a) running in the direc-meant, and whether they had anything tion of the length of the stick are cut to do with his grandmother's being so wise, for she did seem to know so much, zontal lines shown in the elevation (Fig. and as she sat there, with her white cap

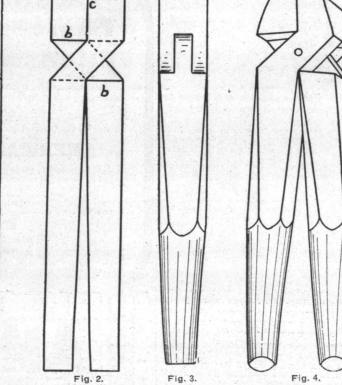


Fig. 1.

Often when he would become fretful candy or shining new pennies, which al- and cry for something he should not have, she would give him a nice little talk and 1), to form the hinge. tell him what was best for him. One rule Whatever could be done to please him that she would often give to him (and was never put off, and for all this he one which we could all make good use of), was "All things will come to those varnished or stained. A wooden peg can who wait." He had heard this so much be driven thru the hinge, but this is that he had begun to think it was a poor rule, as it had never been proved to him. possible for the pieces to come apart.

One hot July day while he was looking at some very large red roses that grew upon a great bush in the corner of the yard, he happened to see a whole nestful of the prettiest white eggs he that he to his bantam hen and he claimed the eggs at once. Besides, they were his by right of discovery, for had he not found the nest first?

He set about at once to try to get the eggs. But, oh, such long, sharp thorns as that rosebush did have, and how his fingers would hurt when he touched the least bit. He then tried with a crooked stick, but it was not long enough. He kept on bringing sticks until he had quite a number, but none of them would reach. At last he had a happy thot-he would tie two sticks together. But he was a poor hand at such work, and the sun was so hot that he made a failure each time. He was almost tired out, and was so warm, too. He marched straight into the room where the square stand set with its white cover which had the sun, the rooster and the child. This time the child seemed to be crying. With a trembling voice he told all of the story to his grandmother, not failing to tell that the eggs belonged to him, giving his two good reasons. His grandmother heard him thru his long story with so much patience that thrash him, for either he is just coming high fence left no means of getting out filled with hope, and he that he out of mischief, or going into it." had found the very friend for whom he blinding tears.

Like all of his sorrows, this one soon passed away. He thot no more of it and heard a loud cluck, and "peep, peep, alone, especially at night. peep" came from a dozen little throats. Almost out of breath he rushed into the room where the square stand set. The child upon the white cover was laughing His many friends will this time, and he exclaimed, "Grand-

(Fig. 2, c. one in front and one in back) go only part way thru. V-shaped pieces of wood are cut out of the middle and each side, as shown in shaded lines (Fig. This is more clearly shown in the finished article (Figs. 3 and 4). The handles are rounded off, and the whole nicely sandpapered and not absolutely necessary, since it is im-

### A NARROW ESCAPE.

BY I. G. BAYLEY.

I think it was Samuel Johnson who had ever seen. The nest surely belonged said, "Whenever you meet a boy, always troubles were by no means ended.

brave spirits, one boy introducing us by hurling a large stone at the half open

You can imagine our dismay when, with wide-open mouth, and eyes bulging out of her head, an old witch of a woman a single piece of wood, many will wonder came screaming out of the house to learn, how it was done. Select a piece of soft whatever in the world possessed us. We did not wait long enough to answer, unless a dozen pair of heels flying over the dust was answer enough. Figs. 1 and 2 show the commencement

A few minutes later found us lying flat upon the ground, behind a low hedge, thru which we could watch without being seen, and we were wondering what would happen next.

We had hard work assuring the boy from town that none of us even guessed that the house was occupied. "It surely must have been taken very recently. "I'd never have thrown that rock-" what are we frightened about. We didn't mean any harm. Let's go and apologize and offer to pay the damage." "Wonder if they have a dog." "Say, but I was "Bet you won't catch me doing scared." a trick like that again." either." And with that we stood up to

get a better view of things.

It's lucky we did! Crawling towards us, with a face I shall never forget, one hand clutching a broken piece of fence rail and the other low on the ground as tho picking up a missile to hurl at us, was the husband of that woman.

Tho badly frightened, we did not lose our wits, but ran at top speed along a road leading into a small town near by, the man gaining on us every minute. He had the most peculiar run, a swinging trot from one foot onto the other, but ground he covered counted. mediately in front of us, and coming our way, several young men stretched themselves across our path in answer to the shouts of this madman behind.

It is said that angels watch over children and drunkards. It came true in our case, for at no point in the road was there an outlet except just at this spot. We quickly ran towards the opening in time to miss the scamps who tried to stop us.

As we ran we turned around every now and then to see how fast we either gained or lost. With a sickening thud, the boy who was a visitor fell to the ground and asked us to give ourselves up. Going up to him, I shouted, "Don't you suppose if we are tired he is too. Let's jump this fence as if we are good for another mile if necessary."

We tried our best to keep up a brave spirit, but our limbs were fast giving out, and since we were nearing the town we agreed it would be well to separate, lest

we arouse suspicion. My path lay thru a small timber yard guarded by a massive dog that bounded towards me as I passed. Even then my



An Old Dixie Mill of Ante-bellum Days, still grinding Corn.

While we were not exactly bad boys, was looking. But when he came to the we were always ready for any mischief, which to fear most, the four-legged beast end of his story, she said in her quiet or fun, coming our way. It thus hap- or the one with two legs, for so he way and manner, "All things will come to pened that, on a very warm afternoon, seemed to me, I found the dog waiting those who wait." This was too much for the story, she said in her quiet or fun, coming our way. It thus hap- or the one with two legs, for so he way and manner, "All things will come to pened that, on a very warm afternoon, seemed to me, I found the dog waiting those who wait." This was too much for we had tired ourselves out, playing ball, for me with every link of his chain well him to stand, and he could scarcely see and; stretching full length upon the nigh ready to burst. Making a feint, as the way out of the room for the great ground under the shade of a large tree, a small unoccupied house which always in time to see my worst enemy trying, had a weird attraction for us. It was a until one day he passed by the rose bush house one would hardly care to go thru

> was visiting us from a neighboring town, who, when being told that the house was enough to unnerve any youngster, and wo full of live ghosts, suggested that we all had just cause to congratulate ourselves go over and call on them. No sooner that we escaped his awful revenge. thot of, than up we marched, with very

except by the way I came.

As I ran towards the gate, not knowing tho to pass him, I quickly doubled, and we rested for a while. Not far away was jumped over the chain, reaching the gate with his last bit of strength, to catch the boy who had almost fainted by the way.

The man seemed to me as one pos-On this particular day, a young friend sessed. The peculiar run, the wretched look and his general make-up were

I realized that something must be

#### How often do you eat this food?

A short time ago there appeared in the columns of one of the prominent magazines an article on building brain and muscle by the proper selection of the foods you eat.

A good many people were surprised to find oatmeal placed at the top of the list of foods recommended; but if the article had appeared in an English or Scotch paper every reader would have expected to see first place given to good oatmeal.

As a matter of fact Great Britian and Europe come to us for tremendous quantities of Quaker Oats because it represents to them perfect food, being the richest in flavor and best in clean-liness and purity, of all oatmeals,

Convenience and economy are served by the way it is packed—regular size 10c packages and large size family packages, 25c.



You Go To Town

be sure to ask your storekeeper to show you a pair of Extra Heavy

### PRESIDENT SUSPENDERS

Just give them a try-out as a work suspender. You'll find them so much more comfortable than the rigid-back kind you have been wearing and last so much longer, that you will never want to wear any other kind.

The stiding cord in the back takes all strain from your shoulders, allows freedom of motion, and prevents chafing.

Maker's guarantee on every pair—SATIS-FACTION, NEW PAIR OR YOUR MONEY BACK. If your storekeeper doesn't have the Extra Heavy Weight, made especially for farmers, we will send you a pair postpaid, upon receipt of price, 50c.



Shirley, Mass.

# N PRIZES

To be Given Away.
Contest FREE and
open to everybody.
Help the "100,000
Club" and earn big
reward. Write today
for particulars.
Contest conducted Contest conductory The Fruit-Grower, St. Joseph,

First Prize \$500 Auto Brush Runabout shown above Second Prize \$100 in Cash Ten Other Prizes Ranging from \$75.00 to \$25.00 Each

The Fruit-Grower is the world's leading fruit and farm magazine, January—Special Spraying Number; February—Gardening Number; Febr

The Fruit-Grower, Box 131, St. Joseph, Mo.

### **-\$33.30 A WEEK**





### **Beautiful Post Cards Free!**

Send 50 stamps for 10 samples of our very best Gold and Silk Finish FLOWER POST CARDS. With each package we tell you how you may obtain hundreds of others from us absolutely free. Address POST CARD CLUB, 74 Bagley Ave., Detroit, Mich.

quickly done or he would surely gain his Shouting after him as I dodged behind the gate-post of the timber yard in time for him to see me, I was relieved to find he had fallen into the trap so

quickly made. Mopping the sweat from his brow, with his hat thrown back, he marched up to the door and pulled the bell. Not waiting to see his disappointment, when he found that none of us lived there, I found my way home, resolving ever afterwards to see that my fun was not so dearly bot. One by one the stragglers came home;

and, judging from their actions and wearied looks, I imagine they had made the

#### SMILE PROVOKERS.

First Dog-There's a young man calling on Miss Grace this evening, and he seems real nice, Second Dog—Yes; I heard her say he

was nice enough to eat. That's what I'm

"If you wuz to find 100 \$1,000 bills in the street, what would you do with 'em?' asked one boy of another.

"I'd keep 'em till they wuz advertised for," was the reply, "and if a poor man had lost 'em I'd give 'em back to him."

Baby Marjorie, who is a suburbanite, went shopping with her mother for the first time. She had never been in an elevator before. In telling her thrilling adventures to her father, she said: "We went into a little house and the upstairs came down."

"Have you ever noticed," asked the man with rebellious eyebrows, "the likeness between the spiritual and business worlds?"

worlds?"
"I can't say that I have," replied th man with the monogram on his vest. "Well, it is remarkable. Yesterday heard a merchant and a minister bot complaining that collections were poor. replied the

#### KINKS.

Kink I .- What Am 1?

I'm an integral part of darkness, yet ne sun must cease to shine when bereft

of me.

I join the artist as he saunters slowly thru the leafy solitudes or smiles at sunbeams glinting thru the trees.

I love the strife and stress of wars and battles, and always join the shouts of the victorius.

Tove the strike and stress of the battles, and always join the shouts of the victorious.

I'm part of every blissful throng, and still where desperate burdens are, there you will always find me at my post.

I'm close beside the fisherman who angles in the tinkling brook or sleeps meandows.

I join bold hunters as they search the prairies for howling coyotes or shy gophers sitting in the sun.

I sail the seas in every stately ship that leaves our perts.

I love gladness and crowds, and am seldom found with one alone, and yet I always stay with Sister when she is sorrowful or sad.

I'm never in bad company but still I am compelled to join the prisoner in his prison cell, and if he mounts the dreadful scaffold, I am there before him.

I am in all quarrels and misunderstandings and divorces, and yet the loves and graces hover close beside me.

I increase pain and trouble, and make many sorrows where only one had been before I came.

I flit thru all life's joyous scenes and perfect gladness bring, but still without me there had been no sorrow since the world was first created.

What am I?

Kink II.—Transposition.

#### Kink II.-Transposition.

A word of four letters which can be transposed to spell four other words, one meaning "certain playthings," another meaning "versels," another a "place" or "to blemish," and the fourth a "stake."

Kink III.-Men.

The "man" that governs.
The "man" that commands.
The "man" that crushes.
The "man" that makes plain.
The "man" that fetters.
The "man" that makes.

Free Lamp To Agents

Mon and women everywhere making up to \$20 a day — no experience needed — recommending—selling greatest invention—drop in the world. White incandescent light. 30,000 families now using. Free Lamp Bons common coal oil (kerosene) but 6 times brighter than electricity — cheapest most brilliant—most satisfactory in the world. White incandescent light. 30,000 families now using. Free Lamp to Agents. Get lamp for your own heme and make big profits. White jucks Simply lend name and address.

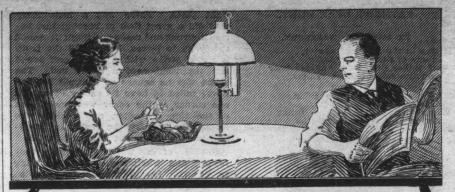
FACTORIES SALES COLORS To Monday the man was a state of the state o

L E A P E A R L A R E A PLA

February 5 Prize Winners.

February 5 Prize Winners.

From among a large number of correct solutions those sent by the following readers have been awarded prizes: Helen Voorheis, Paul Ahlgrim, Mrs. Belle S. Moore, Miss Blanche Shepard, R. J. Epever discovered. Write to-day and get a bout o help introduce it. Agents wanted. J. F. Gregory, Dept. 58 St. Louis, Mo



## "Let's Not Buy Another Thing Till We Put the Fences Right"

HE far-sighted farmer will say that when temptations arise to let the ready money go for some luxury. The luxury is an expense; the good fence is an investment—a producer. A farmer is losing money fast until he has his farm fenced off into a sufficient number of fields to permit of the proper rotation of crops and the most advantageous pasturing of stock

The fields of a farm are like the rooms in a hotel—the more rooms

or fields, the more revenue.

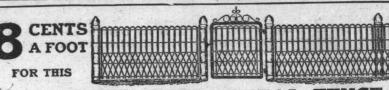
### AMERICAN FENCE Made of Hard, Stiff Wire of Honest Quality

is an investment that brings the most returns for the money paid out. It is made of a quality of wire drawn expressly for woven-wire-fence purposes by the largest manufacturers of wire in the world. Galvanized by latest improved processes, the best that the skill and experience of years has taught. Built on the elastic hinged-joint (patented) principle, which effectually protects the stay or upright wires from breaking under hard usage.

F. BAACKES, V. P. & G. S. A. American Steel & Wire Co. SAN FRANCISCO DENVER NEW YORK

CHICAGO NOTE.—Dealers everywhere. See the one in your town and have him show you the different designs and give prices. Also get from him booklet entitled, "HOW TO BUILD A CHEAP CONCRETE FENCE POST," furnished free for the asking.





BEAUTIFUL ORNAMENTAL FENCE

24 inches high. 9c. for 30-inch, 11c. for 38-inch, 12c, for 42-inch and 14c. for 48-inch. Gates are extra. A WONDERFUL BARGAIN. Nothing like it has ever before been offered at any ways near these prices. It is cheaper than a board or picket fence. Is very strong and will hast for years. Anybody can afford a fence at these prices. Made of No. 12 steel wire, heavily galvanized. We want every one needing fence or gates to have our Large Free Catalogue No. 20, which illustrates and describes our full line of Yard and Cemetery Fence, Gates, Arches, etc., and quotes the lowest prices ever named for these articles. Write us a postal card today for our Free Catalogue No. 20.

KITSELMAN BROTHERS, Box 316 MUNCIE, INDIANA.



GETA BROWN RUST PROOF FENCE Don't buy wire fencing with thin, cheap galvanizing. Brown Fences with all No. 9 Coiled Spring Double Galvanized Wires stands and wears like a stone wall. Easy to put up—Requires fewer posts—Won't sag or bag down. 160 Styles. fewer posts—Won't sag or bag down. 160 Styles.

15 TO 35c PER ROD DELIVERED—WE PAY THE FREIGHT.
Fences for Hogs, Sheep, Horses, Cattle, Lawns, etc.
Special Poultry, Garden and Rabbit proof fences
with extra close I inch spacings at the bottom.
You save money and get a better fence.
Send for Free Sample and test it with
acid, or file it and see how thick
the galvanizing, then compare it
with any wire fence in your
neighborhood. Catalog free

"Easy Digging"—FREE! AN will bring you this valuable time, labor and saving book on 1910 digging methods. Tel I WAN POST HOLE AND WELL AUGER whole day's work in Two Hours. Digs a 3-ft. any kind of soil in three minutes. Uuts eiem, smoom, holes for poles, poets and wells. No musels meking; back-breaking drudgery. Bites right through wet of aty hard-pan, aand, gumbo, gravel, olay. Your money back if not satisfactory. Publio service corporations cut digging laber cost in haif with TaWA Nauger. Best deasiers sell IWAN Auger. Mention your desirs amon when writing for book. Address (11) awan Bros., Dept. U South Bend, Ind.

Made of High Carbon Double Strength Colled Wire. Heavily Galvanized to preventrust. Have no agents. Sell at factory prices on 30 days' free trial. We pay alifreight. 37 heights of farm and poultry fence. Catalog Free. Colled Spring Fence Co. Box 21 Winchester, Indiana.

Cedar fence posts For Sale.
Write CARR & BARRETT, Butterfield, Michigan.

DRY BATTERIES renewed by anyone for 10 \$1. Will send it this week for 35c. FAIRMOUNT TELEPHONE CO., Leightons Corners, N. H.

143 Cents a Rod Farm Pence. 50-Inch Poultry
Fence 32e. Sold on 30 days
trial. 30 rod spool Ideal Barb
Wire \$1.55 Catalogue free.
KITSELMAN BROS.,
Box 278 MUNCIE, IND.

Don't Rust Farm Fence Extra heavily galvanized. Sold direct to
farmers at manufacturers' prices. 30days' free
trial. Freight prepaid.
Also Poultry and Ornamental Wire and Iron
Pences, Catalogue free.
Write for special offer.
The Ward Fence Co.,
Boz336, Desans, Ind.

STUMPS—Farmers having stumps to blast this spring should write THE MEREDITH POWDER CO., Richmond Ind., for prices on Dynamite, Caps and Fuse,

\$10 WORTH OF FUN FOR 10c. friends. Adair & Cummings, Sta H., Cleveland, O

### OUR YOUNG MEN'S COLUMN.

Gloves and Mittens.

Time was when the good pioneer housewife provided the men folks of the farm family with mittens which were the result of her own handiwork, as she provided them with homespun garments for their best as well as every-day wear. Fortunately, however, for the women of the present generation, modern methods of manufacture have provided both gloves and mittens for every purpose at a cost to the farmer which is little, if any, more than the cost of the material which would be required to make the mittens of the good old days. What has been the housewife's gain in this respect has, to some extent, been the wearer's loss, since for comfort, utility and appearance this product of the grandmother's skillful handiwork was eminently satisfactory.

But none will regret that the mothers of the present day have been relieved of this task with which the grandmothers were burdened, and the advancement of modern manufacturing methods has been as great in this line as in any other, so that gloves and mittens are available for every purpose and all kinds of wear at moderate cost. City young men are able to get along nicely the year thru with the thin kid or dog-skin gloves which, however, are not suitable for winter wear for the country young man who has more or less driving to do during severe weath-This difficulty can be overcome by the use of a knitted glove over the thin leather glove for such purposes with good results, since the knitted gloves will prevent the soiling of the dress gloves which results from driving or caring for horses while they are warm. For those who do not like this combination, the lined gloves of undressed kid or other leather are made in a variety of styles for dress or work-day wear, while warm and serviceable mittens for every-day wear are offered at a moderate price, and are suited to all kinds of work or service

The essential economic point in the purchase of gloves or mittens lies not alone in the purchase of a good quality, which has been emphasized in previous articles relating to the purchase of other wearing apparel, but as well in having a variety of these necessary articles at hand suitable for the varied wear for which the country young man needs them. It is far better economy to have such a variety on hand than to ruin the gloves purchased for dress wear in the rougher use incident to the work which the average country young man has to do. A pair of good dress gloves, which every country young man likes to have, will last a long time where worn only upon suitable eccasions, but are soon ruined as noted above unless they are properly cared for. A pair of good mittens, suitable for wear in driving upon cold days, are soon spoiled if used at rough work. Consequently it will pay the country young man to have on hand a good variety of gloves and mittens at the beginning of each winter and, if he has not provided for them at that time. he will likely find it to be economy to purchase them at this season of the year instead of waiting until next year, not alone because of the practical benefit which he will derive from them for the balance of this season, but as well because he can often secure considerable discounts from such purchases as the winter season advances.

For those who feel that they can afford them, the fur gloves and mittens for driving are a good addition to this department of men's furnishings. They are more expensive to buy than other grades, which may be worn for similar uses, but have the advantage of being durable so that when the investment is once made. it does not have to be duplicated for some years. These should be large enough to permit the wearing of a thin glove inside of them for the reasons above noted.

"A stitch in time" will often greatly prolong the length of service of either gloves of mittens in many cases. The better quality of either will last much longer without ripping, than will the cheaper goods, but often a thread will become cut or worn, and if the damage is repaired at once and in a suitable manner, much good service will be insured from a glove or mitten that would otherwise be quickly ruined from neglect. Various methods are employed for cleaning soiled gloves or mittens, but the better way for the country young man as above noted, is to keep them clean, at least those intended for best wear as long as

Why Eight Million People Prefer "Ball-Band" Rubber Footwear

> We pay \$1,000,000 a year for the extra quality that you get at no extra cost when you buy "Ball-Band" Rubber Boots and Arctics. Eight Million People have learned by actual test that "Ball-Band"

Rubber Footwear excels in service and satisfaction.

From the very first, we have sacrificed extra profits in order to earn for "Ball-Band" goods the reputation for highest quality ever known in rubber footwear. Now that we have gained supremacy, it is vital to us that we hold and still further enhance it. To cheapen the quality now would be nothing short of disastrous.

We Put \$1,000,000 a Year Into Quality

Much of it goes into crude rubber, which we buy in million dollar lots. Then comes the big cost for skilled workers in rubber-men who have mastered each process and operation.

Forty acres of floor space, hundreds of machines, vast quantites of high-grade materials, an army of highly trained men— these are the factors that aid us in making "Ball-Band" goods the best that money can buy.

Join the ranks of the 8,000,000 who buy "Ball-Band" because they

Some dealers, who also sell other brands which cost them less money, hand out inferior rubber footwear as equal to genuine "Ball-Band"

products. Be sure to look for the "Ball-Band Trade-mark—the little Red Ball, which we place on every pair. It's for your protection. This same Trade-mark will be found on our famous All-Knit Wool Boots and Lumbermen's socks-the most durable woolen footwear in the world.

GET THEM OF YOUR DEALER.

Mishawaka Woolen Manufacturing Company, Mishawaka, Ind. "The House That Pays Millions For Quality."



You can realize \$500 to \$1,000 per acre per year from apples, pears and peaches, \$300 to \$500 per acre per year

The Northern Pacific extends into or through Minnesota, Wisconsin, North Dakota, Montana, Idaho, Washington, Oregon. New, rich territory being opened up by extentions now building. The Homeseeker's Chance!

Free and Clear

Then, if you want to keep it, pay me rice—on easy terms. I think you'll wa u know how fast it makes money by aded seed to plant and sell. One meas sary when land is so high; the other me

from berries; \$300 to \$600 per acre from grapes. Gratifying returns from vegetables, grains and alfalfa, also.

The irrigated lands in Montana, Idaho, Washington and Oregon reached by the Northern Pacific offer you the most profitable opportunities for farming and fruit-growing to be found anywhere in the United States

The prize-winning fruits almost invariably come from orchards in the Northwest. The climate and the soil are great factors in the popularity of this country. People are constantly buying Northwestern lands. Don't delay

The Scenic Highway Through the Land of Fortune

Northern Pacific Railway

A. M. CLELAND, General Passenger Agent, ST. PAUL



# too long-write tonight for information about the State that interests you

## I Cured My Rupture

STEEL & SIDING

THE UNITED FACTORIES CO.

THE LARGEST AND BEST LINE OF

MACHINERY in America. We have been making it for over 20 years. Do not buy until you see our new Illustrated Catalogue No. M. Send for it now. It is FREE.

Austin Manufacturing Co., Chicago

New Rupture Cure

Don't Wear A Truss.

Brooks' Appliance. New discovery. Wonderful. No obnoxious springs or pads. Automatic Air Cushions. Binds and draws the broken parts together as you would a broken limb. No salves. No lymphol. No lies. Durable, cheap. Sent on trial. Pat. Sep. 10.'01. CATALOGUE FREE. C. E. BROOKS, 2748 Brooks Building, Marshali, Michigan.

I Will Show You How To Cure Yours FREE!

I was helpless and bed-ridden for years from a I would die if not operated on. I fooled them all and cured myself by a simple discovery. I will send the cure free by mail if you write for it. It cured me and has since cured thousands. It will cure you, Fill out the coupon below and mail it to me today.

Depot on 30 Days' Trial  NO MONEY DOWN—NO CONTRACT  If you kee take a yet pay me	ar to Free Rupture-Gure Goupon
This big money-maker is yours, for 30 days' use, anyway, no matter where you live, without a penny of expense to you. I'll pay the freight. I don't want any money in advance —any deposit—any contract. All I want is your permission to ship you a—	Box 49 Watertown, N. Y.  Dear Sir:—Please send me free of all cost your  New Discovery for the Cure of Rupture.
CHATHAM FANNING MILL, SEED  GRADER and CLEANER	Name
Then, if you want to keep it, pay me my bedrock, factory rice—on easy terms. I think you'll want it for keeps when u know how fast it makes money by giving you <b>clean</b> , aded seed to plant and sell. One means full crops—neces-	Address

Just Say "Saw your ad. in the Michigan Farmer" when writing advertisers



### WOMAN AND 👄 HER NEEDS

### WHAT IS EMMANUELISM?

#### Relating What the Leaders of this Movement Claim for Their Doctrine.

panacea for which mankind is looking.

In things religious the new comes to us results. under various names, Christian Science, New Thought, Emmanuelism, all three claiming many faithful adherents. And all are worth a thoro understanding, even if we are to reject all three as heresies after getting to the bottom of their teachings. Of the three, the Emmanuel doctrine is the most surprising, as it comes from that most conservative of all established churches, the Episcopalian.

This new doctrine, which its founders claim is merely a revival of an old one, In many cases the patient receives im- colors striped in self color. Blue is popfirst came into light in 1906. It derives its name from the Emmanuel church in quent and many treatments, say the usual list of shades. Then there is "satin" Boston, whose rector, Dr. Worcester, and leaders. assistant rector, Dr. Samuel I. McComb, are the fathers of the movement, and like the other two cults its theme is the power of the mind over the body. It does not go to the extent of claiming there is no such thing as disease; instead it admits the idea of organic diseases, and before taking patients for treatment, the leaders insist that they shall have a thoro medical examination. Then if there is no organic disease, that is, any disease caused by the breaking down of the tissue of some organ, but the trouble is purely functional, the sufferers are admitted to the classes, or clinics as physicians would call them, and the effect of mind treatment, or mind cure is tried.

The theory upon which Drs. Worcester and McComb have built up their doctrine of mind cure is very simple. Everyone knows how quickly the mind acts upon the body. You are terribly frightened and your heart stops beating, as you say, or perhaps you become deathly sick, and could not retain a mouthful of food if you were to take it. You are worried, and you lose your appetite, become weak and listless, and run down. The cause of the worry is removed and immediately you pick up. A mother loses her baby by death and her grief is so great she has a sick spell. Her organs are perfectly sound, but she is sick bodily, sick because her mind is sick. Perhaps she dies, and then we read in the papers, "Died of Her life was wiped out, not because of a diseased body, but because of a diseased mind, and this disease of the mind was powerful enough to stop the bodily functions.

On the other hand, when your mind is at rest, you feel well physically. You know by experience how much more you can accomplish when you are happy and contented, than when you feel worried and discontented. If you are well mentally, you have a good appetite, your food digests well, you sleep well, and all the organs of the body perform their work, their functions, in other words, harmoniously. This is true because all the work the body is controlled by nerves, which, as we know, are in turn controlled by the brain. The brain in its turn is controlled by our thots, so that if we think morbid thots, the brain becomes diseased, reflects its troubles on the which in turn affect the body, and we have a diseased state of body, which can be altered only by thinking the right sort of thots.

The whole idea in a nutshell is worded by Dr. McComb in the book, "Religion and Medicine:" "All functions of the bodily organism are controlled by nerves, which end in the brain mechanism, then, mischievious ideas create a morbid season's cottons. For, altho some weeks silk. It comes in the same colors as the state does it not follow that good ideas yet must elapse before we can don our Rajah, old rose, navy, tan, cream, brown, will neutralize these first and thereby pretty wash dresses, the wise woman is Nile green, and even black and white. dissipate the nervous or mental trouble? already planning her summer's sewing. There is one piece the natural color of

All sorts of nervous troubles are treat- one has to look twice before she can tell

HIS is pre-eminently the day of new ed by these leaders in the Emmanuel ideas. Anybody with a new sug- movement, neurasthenia, which we have gestion, no matter how wildly im- long termed nervous prostration; hypopossible that idea may be, is sure of re-chandria, or the dwelling on one's state spectful attention, simply because his idea of health; psychasthenia, absurd imaginis new. In business, in science, in phil- ings, like a dread of narrow places or osophy, in religion, in the home, this fact broad open spaces, the fear to be left holds true, the new idea is studied care- alone, etc.; melancholia, and other phases fully in the hope that it will prove the of functional neuroses. Alcoholism, it is claimed, has also been treated with good

> The cures depend upon "suggestion." which has been ably explained in Mrs. Charlotte A. Aikens' paper in the Mich- like the white and may be either in a igan Farmer. In many cases the patient solid color or in stripes and checks. is first placed in an hypnotic condition

tion shows a good example of one of these imitation silks.

Every season sees new names rung on the woman who goes to buy a dress, tho the fabric may be the same old weave. This year's new cloth is "Flaxon," which is nothing more or less than a linen-finish organdie. Of course, it is very sheer and dainty as all organdies are, and comes in all sorts of pretty colors, white striped with delicate pinks, blues, etc., being a favorite design. And, by the way, more stripes seem to be shown than anything else. There are checks and plaids, but of all the goods shown me in a big wholesale house, there was not a single piece with a floral design. This will be sad news for the girls who like summer dresses covered with posies.

We have been accustomed to thinking of handkerchief linon as a fine white cloth meant to be embroidered and made into pretty shirtwaists. Now handkerchief linon comes in colors, if you please, in blues, tans and even black. It is sheer

Poplin promises to have a run this seaand while in this state suggestions are son, and it is appearing in many-varieties addressed to him which tend to change and under many names. There is "Melhis state of mind. He is told the truth ba" poplin, named after the great singer. regarding his condition and instructed as This is a heavy piece of goods, not at all to his procedure in future. The talk is in texture like the two above described, usually positive, and the patient is told but rather like the once popular vesting. that his trouble is already diminishing. It has a satin finish, and comes in plain mediate benefit, while others take fre- ular, and there is old rose, tan and the poplin, which has a shiny metallic stripe. The cure depends upon the action of The woman who likes a black dress would



The Parkhill Zephyrs Come in Plaids.

DEBORAH. the subconscious mind.

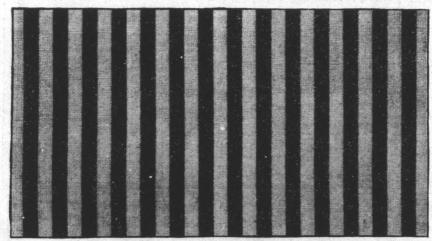
## What's What

of a surprise to me to learn that one class of men are so forehanded that their work year's woolens are already being shown cloth. by their advance men. Verily great is American enterprise.

It is not with next winter's woolens we

As this is a rather dark subject to those in black, which, with its metallic stripe, of us who have concerned ourselves only looks very much like silk. Brocade stripe with the conscious mind, or that part of poplin is just what its name implies, a the mind whose actions we can actually poplin with a brocade stripe. It is very perceive, another paper will be devoted to pretty in old rose and navy blue, and is also shown in white. Silk striped poplin is, however, one of the prettiest of all. It comes in all colors, with a silk stripe giving it a pretty finish. The colors are deli-In Summer Cottons. cate shades, pinks, blues, greens, etc., making this an ideal cloth for a dainty summer dress. The Lorraine poplins are "Man works from sun to sun,
But woman's work is never done," summer dress. The Lorraine poplins are
in solid colors, white, pink, blue, Nile
Runs the old couplet. We are used to green, old rose and black. Victoria silver the idea that man's work doesn't drag stripe and Francesca silver stripe are along like woman's, but it was something alike in everything but color, the Victoria cloth running in light colors while the Francesca comes in dark. These are sheer is all done a year in advance! The cloth fabrics with a silver stripe alternating manufacturers are such thrifty, hustling with a stripe of some color. In the Vicpeople that not only are next summer's toria cloth a pretty piece had a white cotton goods all manufactured and dis- ground, striped with red alternating with posed of to the wholesalers, but next the silver stripe which distinguishes the

> If you wanted a rough silk dress last summer and did not get it, try a Bokhara cloth this season. This is a cotton goods



Showing the Pronounced Tendency to Stripes.

produce a disease, another state of mind cotton weavers become, that many of the tell whether it was Bokhara cloth or can affect a cure."

which in turn is dependent on ideas. If, are concerned, however, but with this which is a fine imitation of the Rajah

One of the most popular cloths

### if some of the new things are the real A Good Change silk or imitation cotton. The illustra-A Change of Food Works Wonders.

The wrong food and drink causes a lot of trouble in this world. To change the food is the first duty of every person that is ill, particularly from stomach and nervous troubles. As an illustration: A lady in Mo. has, with her husband, been brought around to health again by leaving off coffee and some articles of food that did not agree with them. They began using Postum and Grape-Nuts food. She says:

"For a number of years I suffered with stomach and bowel trouble which kept getting worse until I was very ill most of the time. About four years ago I left off coffee and began taking Postum. My stomach and bowels improved right along, but I was so reduced in flesh and so nervous that the least thing would overcome me.

"Then I changed my food and began using Grape-Nuts in addition to Postum. I lived on these two principally for about four months. Day by day I gained in flesh and strength until now the nervous trouble has entirely disappeared and I feel that I owe my life and health to Postum and Grape-Nuts.

"Husband is 73 years old and he was troubled, for a long time, with occasional cramps, and slept badly. Finally I prevailed upon him to leave off coffee and take Postum. He had stood out for a long time, but after he tried Postum for a few days he found that he could sleep and that his cramps disappeared. He was satisfied and has never gone back to coffee.

"I have a brother in California who has been using Postum for several years; his whole family use it also because they have had such good results from it.

Look in pkgs. for the little book, "The Road to Wellville." "There's a Reason."

Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.



Have your home furnished as beautifully as you would like and settle for your purchases in small amounts from month to month as you earn the money. It's a strictly confidential credit arrangement—thoroughly dignified—wonderfully helpful. We give you over a year's time on every purchase you make.

on every purchase you make.

CATALOG No. 113 FREE
This great catalog is handsomely illustrated, a considerable portion of goods being reproduced in colors. It contains everything to furnish and beautify the home—quotes factory prices on furniture, carpets, rugs, curtains, draperies, pianos, crockery, sewing machines, clocks, silverware, stoves, ranges, pictures, mirrors, lamps, go-carts, refrigerators and washing machines. Write for this big catalog at once—today. HARTMAN FURNITURE & CARPET CO. Dept L1 223 TO 229 WABASH AV., CHICAGO





### Malt Coffee

Samples and Circulars Fre MILWAUKEE IMPORTING CO.

Milwaukee, Wis.

506 37th Street



Makes and burns its own gas, Costs 2c, per week. Gives 500 candle power light and casts no shadow. No dirt. grease, nor odor. Unequalled for Homes, Stores, Hotels, Churches, Public Halls, etc. Over 200 styles. Every lamp warranted. Agents wanted. Write for eatalog.

THE USEFUL OUTING FLANNEL. BY E. E. R.

soisette. This has been worn for several seasons, but has grown in grace rather than in disfavor. It comes in solid colors in all the shades. The bashet linens are linen. Shrunk cotton under its various by many women for tub suits.

mentioned before the domestic ginghams. novelties in zephyrs. The former come in plaids and stripes, in all the usual colors of fine zephyrs and ginghams. The latter are striped with a lace-like stripe blankets are especially recommended for which reminds one of fine drawnwork, the use of old people and children. the cloth not being cut out under the stripe. Of course these are in all colors, ric in making underwear for little folks. fine stripes and fancy plaids. You see them every summer, and you will always the value of gingham. Just to show the popularity of percale, more has been sold pleasing variety of colors offer an opporthis year than in any two years previous tunity for selection to suit any taste. since it was first manufactured. It is

Possessing, as it does the comfort of good in white, all the shades of blue, pink wool at a fraction of the expense, outing and green, and in the natural color of flannel has proven to be a fabric of more than ordinary value. An outgrowth of names, shrunk cotton, Indianhead and the old-fashioned canton flannel, it is shamrock is seen in all colors. The three superior by far to that material, yet costs names mean the same cloth, but the even less. In sleeping rooms not evenly shamrock is finished a little better than warmed the outing sheets which come in the others. Ducking will still be chosen attractive styles are a real comfort They are soft and warm to the touch, while so Two other pieces of goods, must be light in weight that laundering is an easy matter. These vary in price from 50 These are Parkhill zephyrs and braided cents to one dollar or more per pair, according to quality. By using care in

Mothers appreciate this soft, fluffy fab-In domestic goods we find small checks, It is extensively used for diapers, in plain white, while nighties and slips made of it are very comfortable. For petticoats it see them because women have found out has almost entirely taken the place of wool. The pretty patterns in such a

washing not to have the water very hot

the colors do not fade. These sheets or

The more expensive outing blankets are



Every Summer Sees the Standard Ginghams.

a good cloth.

shilling. for the entire season and the manufacturers are already sold out. CONTRACTOR OF

#### SHORT CUTS TO HOUSEKEEPING.

This department is opened as a means for the exchange of new and successful ideas in housekeeping. Every housekeeper is anxious to learn the quickest and best way of doing her work, and is constantly looking for new ideas. If you have what you consider a good idea send it on for the benefit of your sisters. They will do the same by you. Please do not send recipes. Every housekeeper now has more than she can use. But if you think you have the quickest and best way of washing, ironing, sweeping, dusting or doing anything else about the house, please write and tell us about it.

A baked dinner is a time saver. Have a good roast, baked potatoes, baked squash, and a baked dessert, mince pie you can warm, bread or rice pudding, or anything that needs oven heat. There are fewer dishes afterwards.-Mrs. S., Okemos.

I find it saves time to plan my work the night before. I sit down after the supper dishes are washed and make a list of everything that must be done, and then add things I should like to do but which could go over. Then I hurry the "musts" out of the way, and try to do as many of the other tasks as possible. This saves me time because I need not think what I had better do next .- Mary

and one spoon of each size. I make white excellent gargle for the throat. -Mrs. L. A. M., Birmingham.

popular because it is not expensive and is employed for making bath robes, using the bordered portion down the fronts and The imported goods first described run for collar and cuffs. Finishing with heavy in prices from 25 cents to 50 cents the cord and tassels in the prevailing color yard. The domestic goods retail at a completes the robe, which is extremely There will probably be no ad- good to look at as well as comfortable to vance this year as the prices are made wear. These robes may also be worn as Nothing more kimona or wrapper. convenient could be imagined for an invalid or convalescent to wear when able to sit up, than one of these garments.

A word of warning should be uttered however, to those who wear this cloth in outer garments. It is highly inflammable and positively dangerous when worn where there is proximity to a blaze or open fire. The nap of the goods catches like tinder and fire runs over it in an instant. Such an accident nearly cost a life in one instance, where the wearer was carrying a lighted candle from one to another. Women who wear house jackets of this material should bear this fact in mind. The long loose sleeves are particularly apt to be dangerous when working in such a garment about the

#### VARIOUS USES FOR SALT.

BY PANSY VIOLA VINER,

Salt is one of the simplest of all household remedies, and one that we always have on hand, yet many do not know how effective it can be made in many in-It is an excellent remedy to stances. allay all neuralgic pains in the head. Make a small bag out of flannel and fill with salt and then heat thoroly and apply to the afflicted parts as hot as can be borne. Hot salt in a bag is fine to relieve all inflammation in different parts of the body, and also good in cases of sore throat. Flannel cloths wrung out of salt, vinegar and hot water is an excellent remedy to apply to chest, stomach or bowels in cases of inflammation or congestion. Renew the cloths as fast as they begin to get a little cool. Salt When I married, all the relatives on placed on the gums when teeth have been "his side" said I would never make a extracted will keep them from bleeding good housekeeper, I dirtled so many too profusely. A little salt and alum dishes in baking and in getting a meal. combined, put in cotton and inserted in This put me on my mettle and I started an aching tooth will often remove the in to do better. In baking now I use pain when nothing else will. Simple salt only one mixing dish, one measuring cup and water or salt and vinegar makes an cookies first, of course, measuring dry in- salt and water makes an excellent wash gredients first, then white cake, then dark for the eyes. Salt in water that is tepià cookies and then dark cake, and in this is a good emetic, and is also a good denway I do not need to wash the mixing tifrice, keeping the teeth white and the bowl. After the cup has been wet for gums hardened. There are many kinds the white cookies, I wash it and dry and of poultices, some good and some not, but use it again for the next cake, and so on. the old-fashioned flaxseed is one of the I have running water in the house, so best to relieve congestions, and is good this is easy to do, but if I hadn't, I should for tonsilitis. To make it have water keep a pan of hot water on the stove. It boiling and stir in ground flaxseed meal only takes a second to wash cup and until it is thick; add a teaspoonful of spoons as I work, and I haven't a big pile olive oil, and spread on a piece of muslin of dishes to wash at the close of baking. twice as large as needed, apply as hot as can be borne.

### **Meat** and **Food Chopper**

The only true Meat Chopper—the only chopper that hasarazor-edge, four-bladed steel knife and perforated steel plate that actually cuts meat, fish, vegetables, fruits, bread, etc. without crushing or mangling.

The "ENTERPRISE" is the strongest chopper made—hasthefewest parts—is the simplest in construction. Easily cleaned. Cannot rust.

For Sale at Hardware and General Stores
Everywhere.

No. 5, Small Family Size Chopper, \$1.75. No. 10 Large Family Size Chopper, Price,

"ENTERPRISE" Meat and Food Choppers are made in 45 sizes and styles for Hand, Steam and Elec-tric Power. We also make cheaper Food Choppers but recommend the above. Il-lustrated catalogue FRFlustrated catalogue FREE.



### Sausage Stuffer and **Lard Press**

The quickest way, the easiest way, the cheapest way to make the best sausage and lard is to use the "ENTERPRISE" Sausage "ENTERPRISE" Sausage Stuffer and Lard Press two machines in one. It is an absolute necessity at butchering time.

It is strongly made and every part does its work without a hitch. Plate fits perfectly and cylinder is bored absolutely true. Preserved sure will not cause meat to rise above plate. The pat-ent corrugated spout prevents air entering the casing, thus assuring perfect filling and preservation of sausage.

Can be changed into a Lard or Fruit pressina jiffy. Sold by Hardware Dealers and General Stores everywhere,

Write for catalogue.



## Bone, Shell and Corn Mill

A necessity to farmers, poultrymen and all who keep poultry. A splendid general, all-round milli-Grinds poultry feed and makes bone meal fertilizer.

Grinds dry bones, oyster and other shells, corn, etc. Pays for itself in a short time. Size shown in illustration (No.750, Price \$8.50, weight 60 lbs.) grinds 11/4 bushels corn per hour

Look for the name "ENTERPRISE" on the machine you buy.

We also make other household specialties—all bearing the famous name "ENTERPRISE"—Coffee Mills, Raisin Seeders; Food Choppers; Fruit, Wine and Jelly Presses; Cherry Stoners; Cold Handle Sad Irons, etc., etc.

Ask for them at Hardware and General Stores.

Illustrated catalogue on



THE ENTERPRISE MFG. CO. OF PA., Dept. 42 Philadelphia, Pa.

## This Name Your Guide To Shoe Satisfaction

"M. D. Wells Co."

-is stamped on the sole of every shoe made by these well known makers of shoes for Mother, Father and the Children. Look for it-if you want shoes that are correct in style, that fit better, look better and wear better than any shoe you have ever worn—shoes that are conscientiously made by expert workman of selected leather - all leather throughout, no substitutes—soles genuine oak tanned—insist on your dealer supplying Wells Shoes.

If Shod in WELLS' SHOES, You Are "Well Shod"

Free We have laid aside a very interesting booklet for every reader of this paper, entitled "Mother, Father and the Children." Yours is waiting for you-send for it today.

If your dealer can't supply you with Wells Shoes, you will be rewarded by writing the

M. D. Wells Co., Chicago.

Women

Be sure this Label is URED ONL

## You Can Win Your Battle with the Bugs

Losses of fruit and vegetables through leaf-eating insects are enormous, and unnecessary. Thousands of mers have cut down that

loss ninety percent by spraying with Swift's Arsenate of Lead — this is a matter of record - will you send for it?

Swift's kills all leaf-eating pests, is washed off the leaves only by heaviest rains, cannot scorch or burn foliage, mixes readily with water and stays in suspension, and does not clog the pump. It increases both quality and quantity of yield.

Send for valuable book on leaf-eating insects. Give your dealer's name. Merrimac Chemical Co., 23 Broad Street, Boston, Mass. BREAD MAKING. No. 5.

HERE may be some few people in the world who do not like bread, but the average person will tell you oldest of made foods, and the the loaf of antiquity was little like the baker's white loaf of the twentieth continuation.

A number of recipes for oatmeal cookies were forwarded for Mrs. G. S., of South Branch. Only a few will be given. white loaf of the twentieth century, it was still bread. The making of good bread is one of the most important of arts, and like every other important art course, stands for pint and "qt." for it is one of the hardest to master. Many quart. I must ask contributors to use women never master it, no matter how painstaking they may be.

The essentials are a good bread flour and good fresh yeast. Spring wheat flour is held by many cooks to be the best for bread, while others prefer a mixture of sugar; 1 c. shortening (half lard and half two parts spring wheat to one part win- butter); 2 eggs; 2 c. oatmeal; 2 or more ter wheat. To determine if your yeast c. flour; 1 tsp. cinnamon, baking powder cake is fresh break it. If it breaks clean and soda; 4 tbsp, sour milk. I often omit and crumbly and is light colored and eggs when they are scarce, and double free from dark spots it is fresh. It is old the quantity of sour milk. Another when it is sticky and has a bad odor.

origin and is the lowest form of vegetable life. It lives at a temperature two degrees below freezing and is killed at a point of water. It grows best at from 67 to 72 degrees and in making bread the water.

or the changing of sugar into alcohol and carbon dioxide. Carbon dioxide is a gas about which cooks hear a great deal, and it is the efforts of this gas to escape from City. the sticky mass which causes the bubbles on the yeast so that we know it is light.

Most cooks now days use compressed ioned hop yeast. The usual procedure is to mash fine three or four medium-sized potatoes at noon, and for yeast old potatoes are better than new because they contain more sugar, which is essential to the growth of yeast. Then the water in which the potatoes were boiled is added two level tablespoonfuls each of sugar, salt and flour, and, when the mixture is lukewarm, one compressed yeast cake which has been dissolved in warm water.

then flour kneaded into it to make a stiff oats. place, but not near a stovepipe as it gets too warm on one side. In the morning it should have doubled its bulk. When it has risen to twice the original size, knead and form into loaves and let stand until the loaves have doubled their bulk. Then brush the loaves with milk or water to get a rich crust and bake. If flour will brown in the oven in five minutes it is at the right temperature. Quick baking gives a white loaf, slow baking a yellow loaf. If your bread is full of large holes it shows you let it rise too long before putting in the oven. If it is soggy it did not rise long enough. If there is a dark streak near the bottom of the loaf it stood in too hot a place to rise. If it gets too light before you put it in the oven, see that your oven is extra hot. A crust will form quickly and prevent further rising. Ordinarily bread should rise for the first 15 minutes of baking. The oven should be kept at an even temperature for the first half hour and then the heat should be decreased. To tell if bread is done, try handling it with your bare hands. Bread that is not done will burn your hands, while you can handle well-done bread without burning. Bread that is done will shrink from the sides of the pan.

Vanilla Wafers.

Cream together two-thirds of a cup of butter and a cup of sugar until light and creamy. Add one well-beaten egg, four creamy. Add one well-beaten egg, four of cream of milk in which has been dissolved one-half of a teaspoonful of or eram of tartar sifted together, and last of all one tablespoonful of vanilla. Wix thoroly and then add more flour until you have enough to roll without sticking. Bake in a quick oven. Fairy ginger cookaten and the pan. crust will form quickly and prevent further rising. Ordinarily bread should

alcohol and the carbon dioxide endeavors to escape, thus puffing up the loaf. The starch in the flour is also made digestible by the baking and a sweet, nutritious, easily digested loaf of bread is the result, or should be.

If you make biscuit, have the oven hotter than for bread. They should only rise for five minutes after going into the

## HOME QUERIES EXCHANGE.

only one side of the paper. Otherwise much time is taken up in this office copying communications before they can be set up.

Plain oatmeal cookies: One c. of brown recipe for oatmeal cakes, while more ex-Yeast is a microscopic plant of fungus pensive, is most delicious. The little ones call them oatmeal candies, and they are certainly more healthful and just as good or better. Nutless nut cakes: Beat 1 temperature of 212 degrees, the boiling egg, 1/2 c. of sugar, add 11/2 c. rolled oats, 1 tbsp. melted butter and 1 tsp. almond or vanilla extract. Drop by spoonfuls on sponge and dough should be kept at about buttered pans and bake a golden brown. this heat. Moisture and sweetness are Let cool on pans. Lemon drops: One necessary to its growth and that is why lemon rind grated and the juice; 1/4 lb. we start our yeast with sugar and warm citron chopped; 4 eggs; 1 lb. sugar; 2 tsp. baking powder; 1 tsp. cinnamon and the favorable conditions of cloves, and flour to stiffen. Care should warmth, moisture and sweetness, yeast be taken not to get too stiff. I often grows rapidly and produces fermentation, use two eggs and add a few tbsp. of cold water instead and omit the citron. They are fine anyway, and are a change from ordinary cookies.-Mrs. C. B. M., Bay

Recipes were also furnished by Mrs. C. G., of Clio, and Mrs. G. G., of Gara, who also furnished the recipe for Nutless Nut yeast for baking instead of the old-fash- Cakes. Thanks are due these ladies, but we will not use theirs at this time. Mrs. W. H. D., of Lowell, furnished a recipe for oatmeal hermits and one for Trilbys. which follow: Hermits: One c. raisins; 1 c. brown sugar; 34 c. part lard and part butter, measured and then melted; 3 large thsp. sweet milk; 1 t. soda in the with enough more to make two quarts, milk; 2 c. flour; 2 c. rolled oats; 2 eggs; tbsp. cinnamon; pinch salt. dripper by the spoonful and pat down. This was very similar to one furnishea by Mrs. C. G. Trilbys: One c. white sugar; 1 c. lard; % c. butermilk; 1 tsp. This is allowed to stand until night and soda; 1/2 tsp. salt; 21/2 c. flour; 2 c. rolled then flour kneaded into it to make a stiff oats. Mix stiff, roll very thin. Make a dough. It should be kept in a warm filling of dates, sugar and water or raisins, spread on a Trilby and place another on top. These are delicious. I, for one, enjoy the "Woman and Her Needs" page. (I suppose the Trilbys are to be baked before putting together with the filling? -Ed.)

#### CONTRIBUTED RECIPES.

Cheese Croutons.

To one cup of grated cheese add one-fourth teaspoonful each of salt and mustard, a few grains of cayenne and one tablespoonful of butter, heat a little and mash till a smooth paste. Cut bread in strips three inches long and one wide, or cut into crescents. Butter slightly and toast till a delicate brown. Spread with the cheese mixture, replace in the oven and serve as soon as the cheese is hot and brown. brown.

Vanilla Wafers.

Chicken Jelly.

We have seen that yeast starts fermentation, or the changing of sugar into alcohol and carbon dioxide. If this fermentation continues too long another kind sets in, the changing of alcohol into acetic acid, a substance akin to vinegar, and then the bread is sour. So we bake the bread to kill the yeast plant, which dies at 212 degrees, and thus we stop fermentation. Baking also drives off the alcohol and the carbon dioxide endeavors

Chicken Jelly.

Season three-fourths of a cup of chicken broth to taste with salt or celery salt and pepper. Cover one teaspoon granulated gelatine with one tablespoon of cold broth. Heat the remainder of the broth to the boiling point; add the softened gelatine and stir until dissolved. Add a few drops of lemon juice. Strain thru double cheese cloth into a cold, wet mould or cup. Put in a cold place until solid. Serve cold. It may be garnished with parsley or celery tips. Beef tea or lamb broth may be used in the same manner. Nut Sandwiches,

Mix equal parts of grated Swiss cheese and chopped English walnut meats. Season with salt and cayenne. Spread between thin slices of bread slightly buttered and cut in fancy shapes. A delicious sandwich is also made by cutting very thin slices from a round loaf of white or brown bread. Spread with a cooked salad dressing in which a little thick cream and a generous amount of finely cut cherries have been stirred.

## Stock Up with Fresh Soda Crackers

Instead of getting a large package of loose soda crackers that soon grow stale—stock your pantry with small tight packages containing

## Uneeda **Biscuit**

Fresh soda crackers every time you eat—the last as fresh as the first-because they are placed in moisture proof packages the moment they leave the oven.

(Never Sold in Bulk)

NATIONAL BISCUIT COMPANY



Allcock's Plasters can always be distinguished by their fine balsam odor; this comes from the Frankincense, which has remarkable curative qualities.

When you need a Pill

take a Brandrein's Pill For CONSTIPATION, BILIOUSNESS, HEADACHE, DIZZINESS, Purely Vegetable.



WRIGHT'S CONDENSED SMOKE

Gives the rich aroma and delicate flavor of hickory smoke to the meat, therefore se highest prices. Keeps the meat sound and sweet indefinitely, and free from insects. A with a brush; twice over is sufficient; entirely absorbed; penetrates meat thoroughl 75-cent bottle smokes a barrel of meat. Guaranteed and sold under Pure Food La.

rial No. 541. Beware of imitations; secure the original and genuine. Write for illus, free book, "The New Way."

Ew Wright's Smoke guaranteed and backed by our \$250,000 capital. Money back if you want it.

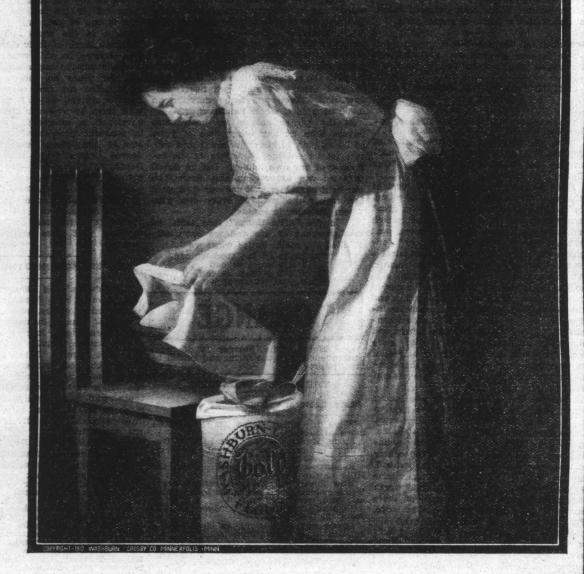
601 Broadway, Kansas City, 10.

#### HAVE YOU HEARD ABOUT THIS?

Dough rises best when made from GOLD MEDAL FLOUR.

### BECAUSE-

In GOLD MEDAL FLOUR dough there are no lumps or dry spots. Our process makes all the minute flour particles the same size, causing complete and uniform absorption, which is most important to a perfect rising.



#### MEN

We believe the use of GOLD MEDAL FLOUR would prove a satisfaction and saving to every reader of this paper.

Therefore, we ask you to note carefully the above advertisement, study the wording of the brand, and when you next buy flour insist that your dealer give you Washburn-Crosby's GOLD MEDAL FLOUR.

In order that you may become thoroughly familiar with our brand, we would be glad to send to the men reading this advertisement one of our GOLD MEDAL FLOUR Watch Fobs. This fob is suitable for all occasions and will prove attractive as well as useful

Fill out the coupon at the end of this page and mail to— Washburn-Crosby Co., Minneapolis, Minn. WASHBURN-CPOSBY CO.

Minneapolis, Minn.

Gentlemen:

Kindly send me\_
as a reminder of Gold Medal Flour. I will ask for your brand next time
I order flour.

I buy my flour from\_

Town\_

State\_

MFMAR10.

Yours truly,

Town.

State \_\_\_\_

This coupon void after Sept. 10, 1910.

## FARMERS' CLUBS

OFFICERS OF THE STATE ASSOCIA-TION OF FARMERS' CLUBS.

President—B. A. Holden, Wixom. Vice-president—Mrs. C. A. Mathews, t. Johns. St. Johns. Secretary—Mrs. C. B. Johnson, Meta-

Treasurer—Henry T. Ross, Brighton. Corresponding Secretary—Clayton Cook,

Owosso.

Directors—T. B. Halladay, Norvell; E. C. Hallock, Almont; A. R. Palmer, Jackson; Wm. H. Marks, Fair Haven; C. L. Wright, Caro; E. W. Woodruff, Blancherd.

Address all communications relative to ne organization of new clubs to Mrs. C. Johnson, Metamora, Mich.

#### Associational Motto.-

The skillful hand, with cultured mind, is the farmer's most valuable asset.

#### Associational Sentiment.-

the primal wealth of nations,

#### OUR SOCIAL DUTIES-WHAT ARE THEY?

Paper read by Mrs. Emily Mosher, be-bre the Hickory Farmers' Club.

I do not know just what the author of this subject had in mind but I have chosen to deal more especially with "Our Duties as Confined to the Farm."

Nature seems to demand some form of diversion in the old as well as the young. In the cities and towns there are a great many forms within the reach of all, which demand comparatively little effort, and yet a great deal of what "society" considers its duties is not only undesirable but altogether impractical for the farmer. At the same time there is a social side to the farm, and this important factor in our life demands honest consideration and the courage of conviction to make its influence felt for the good of the commonwealth. Many of the clearest minds and strongest constitutions in public were from the farm. We are proud and glad to thus serve our country, yet there remains our duty to the many who remain with us.

Often we find a home where the young people leave as soon as they are able to any occupation rather than stay at home.
In another home they are not only satisfied to stay, but their home is the center of attraction for the whole neighborhood.
In the first there is something vitally

Ways in which home may be made the stockholders.

Farm Business—III. Rural Law, (relating to real and personal property, last meeting of Massachusetts State Grange, held at Springfield, Mass., the lecturer reported that over 40 Granges How does local ontion affect business? earn a bare livelihood and choose most wrong, in the other a condition worth careful study, and what is true of these homes is true of neighborhoods at large. Perhaps in the one home not even one good paper is allowed, or a batch of taffy is too dear a price for an evenings pleas-A noisy game is not to be that of, because it would disturb the slumbers of people who are satisfied to go to bed with the chickens. A glance at the other and we see parents, children and neighbors enjoying all sorts of games, a new book, music, and a discussion of the daily paper with perhaps a pan of popcorn sand-I am sure no one will deny wiched in. the good influence of such a gathering, yet preclude a possibility for every home.

The home is the vital spot and the things that will tend to develop its social atmosphere are the things to be desired, such as good literature, music, cultivation of the different abilities of its inmates and time for recreation.

It is not necessary to separate the old and the young in this matter. In fact, the friendly interest, appreciation and encouragement of parents and elders are the greatest safeguards of the young. Who is to be more admired than the older person to whom the young people go, sure of sympathy and help, or who exerts a greater influence? None should be too old to be young at heart-to be comrades of the young.

In this day and age man's chief aim seems to be the accumulation of wealth, and the farmer spends the winter laying plans to be carried out in the summer for making his farm more profitable each year. But, to provide comfortable homes and an education for our children is not all. The home has not fulfilled its mission unless it purposes to become a center of influence. We can't accomplish much by simply opening our doors and telling our neighbors to come in. Custom demands the observance of certain rules, but there is such a thing as a wholesome decorations, may be noted. When I saw independence. A friendly interest will this hall, I immediately asked for a photo do wonders. Women, as a rule, are more of this portion because of its combination socially inclined than men, who dread to of suggestive decoration and its "homey leave their own firesides to go visiting, air. Inquiry brot forth the information especially in the evening. We, as women, that the court arrangements were the

others. a condition, and how much better for parents to know more about the homes advantages, for they are always welcome. There are others who read well and a good story is their only introduction. Others can recite. For the men folks, methods to the new horse. The women Grange. can always find something to talk about, if it is only an exchange of recipes.

"Bread cast upon the waters is not in vain," and a friendly exchange of ideas and methods is sure to result in the good of all concerned. To surround our young people with clean, elevating pleasures, The farmer, he garners from the soil that they may have no desire, is worth every effort, and every plan that helps to improve the social conditions of the neighborhood should be met with hearty cooperation. Even one home may be an inspiration to a whole neighborhood.

In the winter season we have more leisure than at any other time of year, so let us plan to know our neighbors better; let us enlarge the circle of the influence of our own homes. Let us do all that we can to broaden and strengthen our own character, not for our own good but rather the good of every one with whom we come in contact.

It is the "little things" that take the drudgery out of life and we have only fulfilled our social duties when we

Try to do all the good we can, In all the ways we can To all the people we can, When, and wherever we can."

## GRANGE

Our Motto—"The Farmer is of more consequence than the farm, and should be first improved."

#### THE MARCH PROGRAMS.

State Lecturer's Suggestions for First Meeting.

How does local option affect business? Facts collected and presented by two men

racts contected and presented by two men and two women. Recitation (in costume), "Over the Hills from the Poorhouse." Music and recitations in charge of a committee of two young ladies and one

### THE GRANGE COURT.

young man.

accompanying cut shows "the court" arrangements in the hall of Madison Grange, Lenawee county. The soft, harmonious colors of the draperies-gold,

appreciate the compliment but beg of result of the Woman's Work committee you a little unselfish consideration for in thot and effort trying to make of the It is not enough to wait until Grange hall a neighborhood home. our neighbor lies sick upon his bed to had been taken to select tints in draperies call, or to enter another home for the first that were soft and artistic; their hangtime to attend a farewell reception, ing was graceful, and pains were also Young people are not satisfied with such taken in other details. The resulting impression upon every person who enters the hall is one of attraction, which is their children are bound to enter. The really a matter more worthy of attention person who is musically inclined has many than seems to occur to many lady officers. The eye of the member or visitor entering, rests first upon the court upon since the master's station is near to it. It is an opportunity to make "first imthere are numberless topics of common pressions" count on the side of warmth interest, from something new in farm of welcome and the good taste of the

> There are other facts noticed in a visit to Madison Grange; for instance, the lady shown in the cut was master last year, when all of the officers were women. This is one of the largest, most capable Granges in the state and its members attribute much of their development and, as a Grange, its ability to carry out successfully various undertakings to the fact that for years no person has held the same office for two consecutive terms. By this system, which is made obligatory with them by by-laws, many persons are developed in efficiency, and leaders are in constant process of training. Members of this Grange presented the fourth degree before State Grange at Grand Rapids in a way that will never be forgotten by those who saw it. Their displays at the Adrian fair, their contribution to Pomona Grange success, and their regular routine work all rank high and make it advisable to investigate the methods that have contributed to such JENNIE BUELL. results.

#### THE GRANGE IN OTHER STATES.

A Producers' and Consumers' Exchange has recently been formed by Patrons in vicinity of Brunswick, Me., for the benefit of farmers in marketing crops and buying supplies. It was decided to fix the capital at \$10,000, divided into 10,000 shares at \$1 each. It was also voted that the stockholders or members of the company should be confined to members of the Patrons of Husbandry, excepting those who had already subscribed for stock or did so before Nov. 10 last. Bylaws were adopted which fully protect

Grange, held at Springfield, Mass., the lecturer reported that over 40 Granges had held fairs of their own, and 65 had assisted in agricultural fairs in their vicinity last season. The secretary reported the total number of Granges in the state at 282 and the total membership 26,782, a net gain of nearly 2,200. The state lecturer's statistics showed that during the twelve months ended Oct. 1, 1909, 1,954 discussions were held and participated in by 17,402 Patrons; 1,647 papers had been read and discussed by over 2,300 members; 1,386 speakers had addressed Granges on different topics; as entertainment features nearly 6,800 vocal and nearly 5,000 instrumental selections had been rendered and readings to the number of 6,117. The total attendance

# CHARTY FATTH COS 100

Attractive "Court" of Madison Grange, one of Lenawee's Strong Subordinates.

pink and green—cannot be done justice in a photograph, but the form of their hangings and the effective grill work above the front of the stage, with other decorations, may be noted. When I saw this hall, I immediately asked for a photo of this portion because of its combination of suggestive decoration and its "homey" air. Inquiry brot forth the information that the court arrangements were the

# No More

No Matter How Bad Your Case Is Or How Long You Have Had It, Pyramid Pile Cure Can Cure It.

Free Package Sent To Prove It.

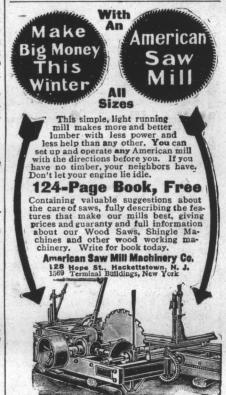
Half of the suffering and torture of piles has never been told. Whether your particular case of piles is almost too excruciating for any mortal to bear, or if you are fearfully tantalized by unreachable itching and bleeding or whether you have only a moderate case of piles, there is positive relief, and quick, too, in Pyramid Pile Cure.

You need not take for granted all we say about our Pile Remedy. We want it to speak for itself.

That is why we say to every person suffering from piles or any form of rectal disease, send us your name and address and we will gladly send you a free trial package of the marvelous Pyramid Pile Cure. After using the trial you will hurry to your nearest druggist and get a 50 cent box of Pyramid Pile Cure, now admitted by thousands to be one of the most wonderful reliefs and cures for Piles ever known.

Instant relief can be gotten by using the marvelous Pyramid Pile Cure. It immediately reduces all congestion and swelling, heals all sores, ulcers and irritated parts. It renders an operation absolutely unnecessary.

Send your name and address teday for free trial package to Pyramid Drug Co., 138 Pyramid Bldg., Marshall, Mich.



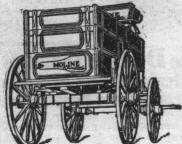


OSGOOD "Challenge" Who weighs the products that you use somebody else's scale

### New Way of Building Farm Wagons

Every notable idea, every important step forward in farm wagon building, originated with the Moline Wagon Company. Moline Wagons have always been the strongest, most improved, and most durable. And now we have perfected a wagon that is in every way vastly superior to every wagon ever made—a wagon that surpasses the most perfect Moline of former years, with 14 important improvements—all new inventions, and used for the first time in the the first time in the

### JOHN DEERE MOLINE



It is made of the same iron-strengthened, It is made of the same iron-strengthened, weather-cured hickory and oak, which has made Moline Wagons famous for their durability—it is the same light-running wagon as of old—but, its strength and convenience is doubted. Service considered, it is the cheapest wagon you can buy. The expensive wagon is the one that costs a few dollars less now but needs repairs every few days and is all gone to pieces in a few years. If you need a wagon, speak to your dealer at once about the John Deere Moline Iron-Clad. There will be a demand for three times the number of wagons we can times the number of wagons we can build during 1910. If you aren't even thinking of buying a new wagon now, write for our illustrated booklet. Post yourself on this remarkable wagon.

Moline Wagon Company Moline, Illinois



## **AUTOMOBILE**

HIGH GRADE

# CANCER we remove cancers without the use of the knife, and grow new liesh in the opening. We accept to mioney until the work is completed. Write for full information, giving description of your case.

We remove can-

KALAMAZOO CANCER INSTITUTE,

Kalamazoo, Michigan.

(Continued from page 236).

(Continued from page 236).

powers with a proposition that the proposed road be moved much farther to the west than was originally planned, taking it thru Urga and Kiakhta to meet the Siberian road near the Baikal line. The proposal has not met with approvat among the powers, and what disposition will be made is not at all clear.

The royal geographical society of Italy voted a medal to Commander Peary for his achievement in reaching the North Pole, and others to his companions for their valuable service in aiding the explorer.

Ineir valuable service in aiding the explorer.

Mrs. Roosevelt and daughter, Ethei, arrived in Naples, Sunday, after a stormy voyage, on their way to meet former Royal circles in Germany are much disturbed over the finding of a lower court that Duke Ernest Guenther is not of the royal lineage and that since the Empress is a sister of Ernest it naturally follows that she, too, is without the royal lineage and that her son is not the successor to the throne.

President Roosevelt at Khartoum, Egypt. Col. Roosevelt and his son, Kermit, with the other members of the party, are resting at Gondokoro, Soudan, after their fatiguing experiences in that section. The party is reported as being in the best of health.

William Jennings Bryan, who has been

ing at Gondokoro, Soudan, after their fatiguing experiences in that section. The party is reported as being in the best of health.

William Jennings Bryan, who has been making a tour of South America, has just left Buenos Ayres for the United States by way of England.

The French government has ordered a cruiser to procede to Guadeloupe immediately where there is reported much rioting. The cruiser carries 400 men.

The sugar crop of Cuba for 1909 is reported to be a big one, the largest in the history of the industry in the island.

Arrangements are being made in London, England, for a reception to Colonel Roosevelt when he arrives there from his trip to the wilds of Africa.

President Cabrera, of Guatemala, has issued an order which provides that the English language shall be taught in the public schools of that republic, the study to be made compulsory. The President and his advisory staff believe that the English language is the coming language of the commercial world, and for this reason desires his people to be conversant therewith.

Boulros Pacha Ghali, the Egyptian

reason desires his people to be conversant therewith.

Boulros Pacha Ghali, the Egyptian premier and minister of foreign affairs, was shot and seriously wounded by a student at Cairo. Egypt, recently. The crime was of a political nature, the student believing the official to be responsible for many acts that were oppressive to the nationalists, to which party the student belonged.

nationalists, to which party the catalogue belonged.

The political situation in England has apparently not been settled by the recent elections, as the majority of the government is uncertain and should it be that the new cabinet is supported by a minority, it is probable another election will follow the recent strengueus campaign.

National.

#### National.

National.

A New Jersey grand jury indicted 21 beef packers and six beef packing companies last week. The men and companies are located, for the most part, in the control the price of meat.

Riots have forced the Bethlehem Steel Company, of Pennsylvania, to suspend business until the police can provide protection.

Molders of the Advance Thresher Company, of Battle Creek, went out on strike Feb. 25. Trouble arose over a foreman not reinstating men that had been dismissed.

missed.

Associate Justice Moody of the United States Supreme Court is seriously ill at his home at Haverhill, Mass. For some time he was showing signs of improvement but during the past few days a change for the worse has increased the concern of his physicians and friends.

Arthur Spear, who was imprisoned for making false entries in bank books while cashier of the Citizens' National Bank, of Oberlin, O., in connection with the Cassie Chadwick case, was pardoned by President Taft from serving the remainder of his term.

The federal grand jury in session at Chicago investigating the beef trust sit-uation expects to complete its work this

week.
The flood situation in Ohio is the wors in the history of that state. Hundred

BARGAINS!!

GRADE

SECOND
HAND
CARS

ASTHE LARGEST DEALERS IN THEWORLD
In new and second hand cars we have immense facilities to buy at great reductions, and always have on hand a large stock of All the Standard Makes in the best condition at Marvelously Low Prices. Send for our Bulletin, micresting to every owner or prospective owner of an automobile. Free on request.

TIMES SQUARE AUTO CO.

5 St. Louis — Cor. Pine & 18th St. Kansas City — 1701-1703 Main St. Chicago — 18224 Michigan Aver. The structure of the services are successfully keeping the cars from operating by derailing and destroying the sent out by the company. Now that it has become evident to other labor operating by derailing and destroying the past week. The street car men who are demanding higher wages for their services are successfully keeping the cars from operating by derailing and destroying that it has become evident to other labor organizations that the strike is not a bluff, sympathy is being extended and Truble is likely to expand to every large industry of the city should the operators of the street car line hold out in their stand. That the strike is not a bluff, sympathy is being extended and Truble is likely to expand to every large industry of the city should the operators of the street car line hold out in their stand. That the strike may extend to outside places, tho to date no definite move in that direction is reported, is very probable unless the operators grant the demands made by the men.

The structure of the Law. Write the FACTS FULLY and send them to us and we will tell you the Law. We have saved clients THOUSANDS of DOILLARS; by giving them legal information they did not know. We can do the same for you. Do not delay: Satisfry quaranteed or money refunded, FRANKIN CO., 302 West 72nd Street, New York, N. Y.

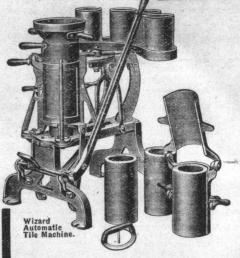
which filled the gorge to a depth of 45 feet.

The United States senate will vote on the bill authorizing the establishment of a postal savings bank this week.

The senate committee on high cost of living has definitely decided to call the packers and storage men to appear before the committee.

The house committee having under advisement the bill introduced by Representative Loud, of Michigan, providing for the raising of the battleship Maine has agreed upon a favorable report of the measure.

## HIGH SPEED CONCRETE \$ LE MACHINE



UNDER ACTUAL TEST two of these Wizard Tile Machines operated by five men have turned out as many con-crete tile in one day as the big \$1,000 machines which require an engine and seven men to operate. A day's output of the Wizard Tile Machine is from 900 to 1,200 perfect tile 10 inches long with 4-inch opening and 5%inch wall, and selling readily for 7 cents each. \$63.00

to \$84.00 is the value of your day's product, and the profit above cost of material and labor is about \$35.00 a day.



### Wizard Automatic Block Machine, \$42.50

The only really successful and by far the fastest automatic block machine on the market, sold at less than half the price others charge for inferior machines. Guaranteed to make perfect blocks on the face down principle. Faster than any other machine sold. Our Triumph Block Machine at \$16.95 is by far the best low priced block machine on the market.

#### Fence Post Molds

Our Fence Post Molds, making concrete fence posts either by semi-dry or slush system, are the best molds on the market and are sold at lower prices than ever before asked for a practical mold.



### Write for This Free Catalog

Handsome molds for post columns, piers, balusters and capitols. A full and complete line at record breaking low prices. We sell more concrete block machines, molds and supplies than any other concern in the world. Our catalog tells the story. It is the most complete book of information on concrete machinery, whether you are contemplating concrete building for yourself or for others. This book shows you how to save money on your own concrete buildings and how to make a profit in the concrete material business. We will send it free on request the very day you ask for it.

Sears, Roebuck and Co., Chicago Fortenant Sears, Roebuck and Co., Chicago Fortenant Search Se

## Children Are Killed by Lightning

Lives lost, property destroyed, losses reaching millions are sustained—just because we do not use proper protection from fire losses. Some of these

use proper protection from fire losses. Some of these losses are partially made up by insurance, but insurance cannot prevent fires. Besides, what insurance could repay for the burning to death of your children!

American farmers, readers of this paper, prevention is in your own hands. You can safeguard yourself and your family, your barns and stock from fire dangers. Not only that, but you can save money at the same time—from one-fourth to one-half what you are now paying out for insurance premiums. That being so, what excuse can you offer if you fail to do it, and there should follow loss of life and property. Besides, such protection as we offer relieves your wife and children from the terror of fear every time there is a thunder storm. Perhaps you have that fear yourself.

storm. Perhaps you have that fear yourself.

Know this—three out of four fires in rural districts are caused by lightning. Read the proof.

THE PROOF

If you read but one paragraph of this advertisement, read this one:

Report of 111 fire insurance companies show 2960 fire losses in one year — 2165 were caused by lightning — only 795 from all other causes combined. Think of it—3 to 1. That is what we would save you from.

### We Can Guarantee to Protect You

from lightning. We have the proof, clearly demonstrating that D. & S. Lightning System will not only protect, but you can secure fire insurance at a saving of one-fourth to one-half present rates.

D. & S. System

is Not Expensive

and split lightning rods. Write us to-day for the proof. All we ask is a fair, open, unbiased judgment. Don't prejudge us. Prof. West Dodd, president of our company, is the only scientist since Franklin who has made a scientific and practical study of lightning. The D. & S. system is the result of his scientific discoveries.

We have several books on lightning

DODD & STRUTHERS,

429 Sixth Avenue,

They are put up by our men trained and experienced in the work—not by men who are the lightning rod agent kind. Geta D. & S. System which lasts forever, costs you hardly any more than inferior the result of his scientine discoveries. We have several books on lightning and lightning protection which will give you facts and figures. A request will bring them. Destructive spring storms will soon be here. Find out now how you can be safe from loss.

Des Moines, Iowa.

Elkhart Buggies

are the best made, best grade and easiest riding
buggies on earth for the money.

PRICE

FOR THIRTY-SEVEN YEARS we have been selling direct and are The Largest Manufacturers in the World

selling to the consumer exclusively.

We ship for examination and approval, guaranteeing safe delivery, and also to save you money. If you are not satisfied as to style, quality and price you are nothing out.

May We Send You Our Large Catalogue? Elkhart Carriage & Harness Mfg. Co.



DETROIT WHOLESALE MARKETS.

Grains and Seeds. 1910.

Grains and Seeds.

Wheat.—A review of the quotations for the past two weeks shows cash grain to be easier with a tendency downward due to millers being fairly well supplied with wheat to carry them thru till the new crop is offered, and to the heavy receipts and a general advance in futures where damage to the growing crop appears to be sustained by information from numerous sources from the southwest, thus widening the margin between cash goods and futures. The reports from the winter wheat sections where ice is general over the plants, all carry a discouraging tone, and farmers are fearful that much of the crop is gone beyond hope of recovery. Liverpool was bullish on Tuesday. One year ago the price for No. 2 red wheat was \$1.25 per bu. Quotations for the week are:

No. 2	No. 1		
Red.	White.	May.	July.
Thursday1.241/2	1.241/2	1.2434	1.08
Friday1.241/4	1.241/4	1.2434	1.09
Saturday1.24	1.24	1.241/2	1.091/2
Monday1.24	1.24	1.2514	1.11
Tuesday1.231/2	1.231/2	1.241/2	1.101/4
Wednesday1.23	1.23	1.23 34	1.0934
		TO A THEOLOGY OF A	3,465

		No. 3
	No. 3	Yellow.
Thursday	631/2	641/2
Friday	631/2	641/2
Saturday	631/2	641/2
Monday	63	64
Tuesday	63	64
Wednesday	63	64

		1	1	8	1		P				20	st	andard.	N	0. 3.
Thursday										7			483/4		481/2
Friday .															481/4
Saturday													483/4		481/4
Monday	. ,										,		4834		481/4
Tuesday				 									481/2		48
Wednesda	ly			*									481/2		48

	Cash.	March.
Thursday	 \$2.15	\$2.20
Friday	 2.15	2.20
Saturday	 . 2.15	2.20
Monday	 . 2.15	2.17
Tuesday	 . 2.15	2.17
Wednesday	 . 2.15	2.17

are as lunows	· Control of the Cont		A STATE OF THE PARTY OF THE PAR
Thursday	Prime Spot.	Mar. \$8.00	Alsike. \$7.50
	8.05	8.05	
			7.50
	8.10	8.10	7.50
Monday	8.20	8.20	7.50
Tuesday	8.30	8.30	7.50
Wednesday	8.15	8.15	7.50
Rye - Marke	t quiet dem	an 3	- 7

									T	'n	nis	W	e	ek.		Last week	
Wheat		٠				×					25,	5	16	,00	0	27,827,000	
											13,						
Oats .											8,	74	10	.00	0	8,689,000	
Rye												77	71	.00	0	737,000	
Barley					٠						2,	87	3	.00	0	3,000,000	

characteristic feature of the egg deal, and lower prices prevail as a result. The decline amounted to 2½c during the past week. Current offerings, cases included, are quoted at 21½c per dezen.

Poultry.—There is no heavy dealing in poultry because of the light stocks. Prices are altered with chickens a fraction lower and other kinds steady or higher, Quotations are as follows: Live—Spring chickens, 16½c; hens, 16½c; esees, 14c; turkeys, 18@19c. Dressed—Chickens, 17@18c; hens, 17@18c; ducks, 18@20c; geese, 15@18; turkeys, 20@23c. Cheese.—Prices are about steady with those of last week, Michigan fall made 15@17c; York state, 19c; limburger, 18c. Calves,—Higher. Choice to fancy, 12@12½c; ordinary, 11½@12c per lb.

Fruits and Vegetables.

Apples.—Spy, \$3@3.50; Baldwin, \$2.50@3; common, \$1.50@2.50 per bbl.

Chicago.

Favorable reports from Chicago caused Mixed, medium and heavy, with great with mixed, medium and heavy, \$9.90@10; light porters and pigs, \$9.75@9.85; roughs, \$9.25

We quote: Brown morning opened slow with most of the best native lambs selling at \$9.40 and westerns from \$9.30m \$9.35m Market closed firm with the tops moderate the balance of the week we anticipate some improvement but if lib-ness horses swelled the receipts a good deal and attracted many buyers from various points.

We quote: Brown morning opened slow with most of the best native lambs selling at \$9.40 and westerns from \$9.30m \$9.35m Market closed firm with the tops selling at \$9.40. Should the receipts be moderate the balance of the week we anticipate some improvement but if lib-ness horses swelled the receipts a good deal and attracted many buyers from various points.

Disc Your Ground to the provided they can get the feed.

Horses have continued in strong demand for another week, the special sale strong feeling here.

We quote: Brown morning opened slow with most of the best native lambs and provided they can get the feed.

Horses have continued in strong demand for another week, the special sale strong feeling here.

We quote: Brown m

The state of the control of the cont



The Deere Model B **Patented Spring Pressure Secures Even Penetration** 

There are just as many good reasons for even depth discing as for even depth plowing and our Free Booklet shows how and why the Model "B" does this work best.

Ask us to mail you Free Book No. B 5 and we will also send our Latest Corn Book and Farmers Pocket Ledger, all without charge.

It pays to use high-grade tools. Keep posted on up-to-date methods. Other exclusive features of the Model "B" are extra high arch frame, scrapers without rivets or set screws, hardwood, oilsoaked bearings, all-steel gang frames



Guaranteed for 10 years

Guaranteed for 10 years

We have paid over to the National Surety Company of New York sufficient money to justify them in issuing a guarantee bond with every roll of Congo Roofing which we sell. In other words, the Surety Co. guarantees to make good our guarantee, so you get double protection.

The guarantee bond says in effect that—If your 2 or 3 ply Congo Roof wears out in less than ten years, you are entitled to a new roof without charge.

Surely you will prefer a roofing which we stand ready to back up in this way as against one whose maker is only willing to say that it "should last" ten years, but dares not back it up.

Write us for a copy of this guarantee and we will send it toyou free; and if your lawyer can find any loop-hole in it for us, we would like to know it.

UNITED ROOOFING & MFC. CO.

UNITED ROOOFING & MFG. GO. Trust Bldg., Philadelphia, Pa San Francisco Vest End Chicago



#### WILL MAKE YOU **PROSPEROUS**

If you are honest and ambitious write me today. No matter where you live or what your occupation, I will teach you the Real Pour occupation in will teach you the Real Representation of my Company in your town; start you make big money at once.

Unusual opportunity for men without apital to become independent for life. aluable Book and full particulars FREE.

NATIONAL GO-OPERATIVE REALTY CO. E. R. MARDEN President 162 Marden Building Washington, D. C.



PATENT EXPLOITATION

THE LAW OF PATENTS
Send for FREE booklet and advice as to how
inventions are secured, sold and financed.

Patent Development Corporation,
No. 525 Seventh Street.

Washington, D. C.

#### THIS IS THE LAST EDITION.

In the first edition the Detroit Live Stock markets are reports of last week; all other markets are right up to date. Thursday's Detroit Live Stock markets are given in the last edition. The first edition is mailed Thursday, the last edition Friday morning. The first edition is mailed to those who care more to get the paper early than they do for Thursday's Detroit Live Stock market report. You may have any edition desired. Subscribers may change from one edition to another by dropping us a card to that effect.

#### DETROIT LIVE STOCK MARKETS.

### Thursday's Market. March 3, 1910.

Receipts, 950. Market active at Wednesday's prices; 10@15c higher than last

Cattle.

Recelpts, 950. Market active at Wednesday's prices; 10@15c higher than last week.

Best steers and helfers, \$6@6.25; eteers and helfers, 1,000 to 1,200, \$5.50@5.85; steers and helfers, 800 to 1,000, \$5.25@3 to 5.50; eteers and helfers, 800 to 1,000, \$5.25@3 to 5.50; eteers and helfers, 800 to 1,000, \$5.25@3 to 5.50; eteers and helfers, 800 to 1,000 to 1,200, \$5.25@3 to 5.50; eteers and helfers, 800 to 1,000 to 1,200, \$5.25@3 to 5.50; eteers and helfers, 800 to 1,000 to 1,200, \$5.25@3 to 5.50; eteers and helfers, 800 to 1,000 to 1,200, \$5.25@3 to 5.50; eteers and helfers, 800 to 1,000 to 1,200, \$5.25@3 to 5.50; eteers and helfers, 800 to 1,000 to 1,200, \$5.25@3 to 5.50; eteers and helfers, 800 to 1,000 to 1,200, \$5.25@3 to 5.50; eteers and helfers, 800 to 1,000 to 1,200, \$5.25@3 to 5.50; eteers and helfers, 800 to 1,000 to 1,200, \$5.25@3 to 5.50; eteers and helfers, 800 to 1,000 to 1,200, \$5.25@3 to 5.50; eteers and helfers, 800 to 1,200 to 5.50; eteers and helfers, 1,200 to 5.50; eteers and 1,200

\$4.60; to Mich, B. Co. 22 steers av 985 at \$5.75.

Spicer & R. sold Newton B. Co. 2 cows av 815 at \$3.25, 1 do weighing 1,150 at \$4.65, 4 steers av 827 at \$5, 9 do av 992 at \$6; to Sullivan P. Co. 9 butchers av 964 at \$5.20.

Haley & M. sold Mich. B. Co. 1 bull weighing 1,480 at \$5, 1 cow weighing 900 at \$3.35, 35 heifers av 678 at \$4.45, 1 bull weighing 930 at \$4.60, 1 do weighing 1,120 at \$5; to Breitenback Bros. 8 butchers av 757 at \$4.80, 4 do av 800 at \$5, 2 cows av 950 at \$4; to Sullivan P. Co. 1 bull weighing 890 at \$4.60; to Hammond, S. & Co. 1 steer weighing 830 at \$5.50, 1 cow weighing 560 at \$3, 1 do weighing 920 at \$3.50, 2 heifers av 493 at \$4; to Fronn 2 cows av 835 at \$3.25, 1 do weighing 940 at \$3.50; to Rattkowsky 4 do av 912 at \$4.55.

Rosenham sold Mich. B. Co. 3 cows av \$4.50.

Rosenham sold Mich. B. Co. 3 cows av 1,053 at \$4.50.

Lowenstein Bros, sold same 9 do av 1,033 at \$4.25.

Recepting 4.50 at 48.50. Cook and the first of the first

do av 77 at \$9; to Sull'van P. Co. 27 do av 50 at \$7.50; to Haise 38 do av 55 at \$8.

Spicer & R. sold Nagle P. Co. 51 lambs av 78 at \$8.90, 145 do av 80 at \$8.90, 27 do av 75 at \$8, 11 do av 68 at \$8, 5 sheep av 80 at \$5; to Mich. B. Co. 2 sheep av 115 at \$5, 19 lambs av 65 at \$8.75, 15 do av 60 at \$8.25; to Thompson 3 sheep av 125 at \$5.25.

Hertler sold Nagle P. Co. 128 lambs av

125 at \$5.25.

Hertler sold Nagle P. Co. 128 lambs av 80 at \$8.85.

Lewis sold same. 40 lambs av 85 at \$8.90, 55 sheep av 90 at \$5.25, 5 do av 115 at \$6.80.

Bergin & W. sold same 46 lambs av 75 at \$8.75, 4 sheep av 100 at \$4.50.

Ardner sold same 48 lambs av 70 at \$8.

Bennett & D. sold same 12 do av 75 at \$8.25.

\$8.25.

Berry sold Hammond, S. & Co. 8 sheep av 85 at \$4, 14 do av 75 at \$6.50, 23 lambs av 60 at \$8.25.

Kendall & D. sold Sullivan P. Co. 15 lambs av 50 at \$6.75, 43 do av 70 at \$8.65.

Roe Com. Co. sold Nagle P. Co. 1 lamb weighing 100 at \$8.50, 1 sheep weighing 150 at \$5.50; to Mich. B. Co. 23 lambs av 73 at \$8.75.

McBride sold Newton B. Co. 14 lambs av 80 at \$8.75.

Hogs.

at \$10, 621 av 200 at \$9.90, 114 av 175 at \$9.60, 38 av 155 at \$9.70.

Friday's Market.
February 25, 1910.

Cattle.

The market opened at the Michigan Central yards Friday with a light run in all departments. In the cattle division the trade was steady with Thursday on all grades, but there was nothing on sale good enough to bring over \$5.60 per cwt.

Best steers and helfers, \$5.50@5.60; steers and helfers, \$00 to 1,000, \$4.75@5.25; steers and helfers and helfers, \$00 to 1,000, \$4.75@5.25; steers and helfers that are fat, 500 to 700, \$4@4.75; choice fat cows, \$4.50@3; choice heavy bulls, \$4.75@5; fair to good bolognas, bulls, \$4.75@5; fair to good bolognas, bulls, \$4.75@5; fair to good bolognas, bulls, \$4.75.25@6.25; fair stockers, 500 to 700, \$4.25@4.75; choice steckers, 500 to 700, \$4.25@4.25; fair stockers, 500 to 700, \$4.25@4.25; fair stockers, 500 to 700, \$4.375@4.25; fair stockers, 500 to 700, \$3.50@4; stock helfers, \$3.50@4; milkers, large, young, medium age, \$40@55; common milkers, \$25@35.

Bishop, B. & H. sold Bresnahan 5 helfers av 646 at \$4.50; to Thompson Bros, 4 cows av 1.070 at \$4; to Hammond, S. & Co... 5 do av 872 at \$4, 4 do av 887 at \$3.25, 2 do av 825 at \$3.25, 5 do av 860 at \$3.25, 5 do av 870 at \$4, 10 useighing 1880 at \$4, 1 do weighing 1,440 at \$4.75; a do av \$50 at \$4.25, 2 steers av 1,165 at \$5.60, 2 helfers av 825 at \$4.50, 1 do weighing 790 at \$4.50; to Sullivan P. Co. 1 bull weighing 1,570 at \$5, 13 steers av 939 at \$5.50, 11 do av 993 at \$5.50, 5 cows av 1,000 at \$4.40, 1 do weighing \$30 at \$3. Haley & M. sold Mich, B. Co. 1 bull weighing 1,570 at \$4, 40, 1 cow weighing 600 at \$3, 3 do av 903 at \$4, 6 helfers av 666 at \$4.65.

We can prove to you that the IOWA DAIRY SEPARATOR is positively the best separator made — that it stands in a class by itself—that there is as much difference between it and other separators as there is between silk goods and cotton goods. or between day and night:

THE IOWA IS ABSOLUTELY THE CLOSEST SKIMMER

BEGAUSE the double core gives a larger skimming surface in our small bowl than in the biglowl on any other machine. The discs on the inner core are wide apart, giving a free and open passage for he thick cream. In the outer part of the bowl, where the last particles of butter fat are skimmed, the discs are close together, dividing the milk in very thin layers, thus giving the largest possible skimming surface. WE SELL YOU THE IOWA SEPARATOR ON A POSITIVE GUARANTEE THAT IT IS THE CLOSEST SKIMMER MONEY CAN BUY.

THE IOWA SEPARATOR IS THE LIGHTEST RUNNING MACHINE

BECAUSE it has the lightest bowl of equal skimming capacity of any machine, and you know it takes less power to keep 3 lbs. in motion than 6 lbs. Our gearing is so arranged that it does away with the old worm principle used on other separators. Note the slant given the wheel which drives the bowl. This eliminates the friction of the old style worm wheel. Each bearing has a reservoir of oil, in which no dust or dirt can collect. This is different from any oiling system used in any other separator. The IOWA MACHINE HAS PROVEN IN ALL EXPERIMENT STATION TESTS TO BE THE EASIEST RUNNING MACHINE MADE.

THE IOWA IS EASIEST AND QUICKEST CLEANED

BECAUSE it is the only machine in which the skimming device can be washed by centrifugal force. The washing is done by simply running water through the bowl. It has a self-draining bowl and all milk drains out of it at the end of the run. The skimming device consists of only two pleces. The heaviest piece a woman has to lift in washing this machine weighs only 3 lbs., while in other machines she has to lift from 10 to 15 lbs. THE IOWA SEPARATOR IS CLEANED IN JUST ONE-HALF THE TIME IT TAKES TO CLEAN ANY OTHER MACHINE.

The Iowa is the most durable.



The lowa is the most durable.

BECAUSE the frame isheavier than that of any other machine. There are no overhanging bearings, every wheel is supported by a bearing on each side. The gears are tightly enclosed so that dust or other matter cannot get to them to clog them and cause them to wear. The IOWA bowl being lighter, requires less power to maintain its proper speed and hence there is less wear on the gears. NO OTHER MACHINE CAN LAST SO LONG BECAUSE NO OTHER MACHINE CONTAINS THE ABOVE FEATURES.

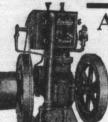
We have the largest separator factory in the world and it is a fact that you cannot buy a separator anywhere at any price that will equal the IOWA in all the above points.

With the magate squarely under that will skim to its rated capacity under will make you a present of one of our machines. There are no strings to this offer and it is not limited in any way.

Write us before you buy and we will give you some

Write us before you buy and we will give you some rprising inside information on separators.

lowa Dairy Separator Co. 108 Bridge St.



### Are You a Plumber?

And a steam fitter and a machinist? If so you can keep an ordinary gasoline engine running part of the time,—unless you forget to drain it and have a freeze up! That puts it out of commission.

## THE NEW-Way" Air Cooled

is not an ordinary engine, and an ordinary man can get a full day's work out of it every day in the year. No water, no tanks, no pipes, no packing; nothing to freeze up or leak.

Write for Catalog C.

Write for Gatalog G.
The only air-cooled engine The New Wey Heter Company guaranteed for all work. LANSING, RICHICAR, U.S.A.

WE WANT AN AGENT for our fertilizer in every neighborhood in Michigan.
Il ship to responsible parties on a consignment contract; that is, the agent only We will ship to responsible parties on a consignment contract; that is, the age pays for what he sells. We will take farmers' notes for pay.

Write for prices and terms.

THE CINCINNATI PHOSPHATE CO., Station P, CINCINNATI, OHIO.



Nitrate Sold in Original Bags

#### NITRATE AGENCIES CO.

California ......321 Stimson Block, Los Angeles .....520 Bank San Jose Bldg., San Jose Canada... ....1103 Temple Bldg., Toronto

Address Office Nearest You

## HAY & GRAIN

Daniel McCaffrey's Sons Co., Pittsburg Pa. Ref,-Washington Nat'l Bank. Duquesne Nat'l Bank.

### WANTED!

### HAY OF ALL GRADES.

Write for quotations. One profit, from producer to com F. D. HEWITT, 120 Liberty St., New York. PLEASE MENTION THE MICHIGAN FARMER when you are writing to advertisers.

CORN IS STILL KING.

It is very doubtful whether there has ever been given so much thought and scientific, practical research to any known cereal crop as there has been to corn. Marvelous results have been achieved in increasing both quality and crop. The manufacturers of corn planting machinery have been doing all in their power to aid in this work, and to them some measure of praise is justly due. The Hoosier Corn Planter is one of the results of this painstaking work. Hoosier Corn Planters can be had in many styles, with and without fertilizer attachments. They can be had with shoe or runner, single disk or twin disk furrow openers. Also in round-hole, flat drop and edge drop plates. No matter what style of corn planter the user wishes to purchase, he can find it in the Hoosier Corn Planter line. The Hoosier Corn Planter has many exclusive features. Every Hoosier Planter is sold under the most liberal of guarantees. The Hoosier must and will do all that the manufacturers claim. They are accurate, very simple, easily adjusted, strong and of light draft. Before purchasing a Corn Planter the farmer should write to the manufacturers. The American Seeding-Machine Co., Incorporated, Richmond, Indiana, for a Hoosier Corn Planter cata-Then go to the retail implement dealer and insist on seeing the Hoosier Corn Planter.

### MODERN SILAGE METHODS

Send for this new

224-page book on Silos and
Silage. 1908 edition—size 5½x
7½-in.—indexed—over 40 illus.
Used as a text book in many Agricultural Colleges. Contents by chapters follow: "Advantages of Silo;" 25 pages; "Silos: How to Build," 76 pp; "Concrete or Cement Silos." 10 pp; "Silage Crops," 6 pp; "How to Make Silage," 19 pp; How to Feed Silage," 22 pp; "Feeder's Guide, to. 56 pp. A vast amount of knowledge boiled down—nothing so complete ever published—answers every silage question. Mailed for 10e, coin or stamps, if you mention this paper.







#### SAVE \$10 TON on FEED

CUDDO-MEAL-A COTTON SEED FEED.

Contains 15 to 18 per cent protein, 6 per cent fat; three times more protein than corn; 50 per cent more than wheat bran.

wheat bran.

It's an excellent milk producing feed; a flesh producer for steers and sheep.

It's cheaper than bran. Cost \$15.00 ton less than oil meal.

E. A. Stevenson, who fed one car load of Cuddomeal last year and has bought 3 car loads so far this season, says "excellent results are obtained from feeding Cuddo-meal both to milk cows and to growing steers."

A. E. Pierce, of Tecumseh, Mich., a sheep feeder who tried one ton in October, then bought a full car load, says: "Cuddo-meal is a satisfactory sheep feed."

INVESTIGATE. Try it. Feed one ton, then you will buy more.

you will buy more.

Price \$22 F. O. B. Jackson; or \$24 ton,
freight prepaid to any town in Michigan, Ohio,
Indiana, Mail Check or Money Order for sample ton,
Ask for Free Copy "Dalryman's Handbook,"

THE BARTLETT COMPANY Jackson, Mich. Cotton Seed Products.

CONDUCTED BY COLON C. LILLIE.

#### PLAN FOR DAIRY BARN.

I am intending to build a cow barn next spring and I would like you to send me a plan to build, also stating how to put it up. I intend putting in cement floors.

Alcona Co. M. R. S.

Mr. Sloan does not say how large he wants his barn, how many cows he wants to accommodate, or anything about it, so that it is practically impossible to give any definite plan with regard to his proposed new building. I do not believe that a plan for a dairy barn can be devised that will be any better, all things considered than a T shaped barn. That is, build the main barn and then end another barn up against it in the form of a T. Have the main barn large enough for ample storage for hay, and then room enough for the grain that one raises on the farm to be put in on top of the hay mow and on scaffolds over the drive floor. Then the other part of the barn that ends up against this in the form of a T can be used to put the straw in when one threshes. On a dairy farm it is just as necessary to have plenty of bedding as it is to have plenty of hay and corn silage. The only way to have this straw and keep it in good condition is to have it in ment for a barn will handle it in as good shape as any scheme I ever saw, or can shape as any scheme I ever saw, or can Total for herd for year ......55,696 conceive of. Now, the cow stable should Average per cow for year ......7,956 run across the main barn proper, and extend down thru the addition, or stem of the T and the whole should be of all of the necessary roughage for the cows which will depend upon the size of the farm. Supposing this main part was 45x60 ft. Then the stem should be 36 ft. wide and as long as one needs to get in the required number of cows. Now, the Profit per cow in year .......\$ 53.81 cow stable would extend the whole length 
It always helps us if we know what of the stem of the T and cross the main alley between the two rows of cows so tons of dried beet pulp. that one can drive thru with a manure this arrangement the cows face the out. side where they will get fresh air to breathe, your hay chutes will be on the outside of your barn and will not interfere with your basement, while if you heads together, the feeding alley comes in the center and the hay chutes above will necessarily come in the center of the barn and right in the way. Of course, the cow stable proper extending across the main barn will leave a space on either end of the big barn which will not be utilized for cows, but this can be utilized by making it into box stalls for the purpose of keeping calves and for a hospital for cows when necessary. I have seen a great many dairy barns and have thot of this question considerably and I do not know or cannot think of any better plan. Make the basement entirely above the ground. Let the wall come simply a foot above the ground and then board it the rest of the way for the basement. Double board, with tar paper between, and it ought to be sheeted on the inside. Then, for the barn proper I would use the plank frame. Any carpenter will tell you how to make that. And I would also have a hip or sprung roof. The floor between the stable and the storage part of the barn should be double boarded, with the cracks mismatched, else you cannot keep your stable warm and cannot prevent dust and dirt from rattling down from write me the

#### IMPROVEMENTS IN BREEDING BY GRADING.

size of the barn.

If I breed a thorobred bull to a mongrel cow will I get a half-blood and what fraction will I get the next time? Can I get a thorobred dairy herd in this way? My neighbors tell me that I can get a %-blood the second service, but I did not think so. think so. New York.

F. BIXBY. ing consists in mating common, or relasire.

The second cross would be three-fourths! blood, or contain 75 per cent of the blood of the sire. The third generation would be seven-eighths blood, or contain 871/2 cent of the blood of the sire. The fourth generation would be 15/16, or contain 93.75 per cent of the sire. The fifth would be 31/32 pure, or 96.87 per cent of the blood of the sire. The sixth generation would be 63/64 pure, or contain 98.44 per cent of the blood of the sire. Hence in the sixth generation we would have only 1.56 per cent of unimproved blood in the herd. Accurately speaking, we could never have pure-bloods by the system of breeding known as grading, because there would always be a small portion of the unimproved blood in the offspring, tho as we proceed it can readily be seen that this amount would be exceedingly small. Indeed, it is exceedingly small even in the sixth generation. Nevertheless, it would always be divided and never be blotted out. For all practical purposes, however, the animals would be the blood of the sire.

#### GOOD HERD RECORD.

As I take pleasure in reading reports of dairy cows I that this might be of interest to some one. My cows could not be called Holstein grades but they are a good grade of black and white cows. The year's record is as follows:

Average number of cows for year... Total number of lbs. of milk de-.50,951 bors

Price paid, 4 mos. at \$1.50; 2 mos. at \$1.40; 1 mo. at \$1.35; 3 mos. at \$1.25; 2 mos. at \$1.

someone else is doing with a good herd barn, making one continuous stable, the of common cows. This grain for the year facing the outside with a broad was 2% tons of cottonseed meal, and 5%

(This is certainly a good record for a spreader or manure truck, and load the herd of cows. There is, however, one manure directly onto this wagon. By item that makes the record rather unsatisfactory. Mr. McLaughlin says average number of cows is seven. Now, as explained before, if a cow is kept until she is nearly dry and sold and a fresh cow purchased to take her place, and so stand the two rows of cows with their on, and by this means there are seven cows kept giving milk continuously during the year, it is hardly a fair comparison with a herd where the same seven cows are kept for the whole year, and this would bring down the average yield of milk somewhat and consequently reduce profits also .- Ed.)

#### OATS AND RYE FOR GRAIN FEED.

Will you please criticise thru the medium of your paper, my formula for feed and method of feeding my milch cows, and mention such changes as you deem advisable. I have plenty of bright shredded corn fodder and good clover hay, corn, oats, and rye. At present am feeding mornings all the corn fodder they will clean un with grain ration consisting of ing mornings all the corn fodder they will clean up, with grain ration consisting of corncob meal, 75 lbs.; oats, 65 lbs.; rye, 120 lbs.; bran, 192 lbs., figuring 1 lb. of feed to 4 lbs. of milk; noons, what clover hay they will clean up, with ½ peck of potatoes per cow; night, feed the same as morning. Any suggestion on improvement of above ration will be greatly appreciated. Also, please give me your opinion as to what poratoes are worth as a succulent feed for cows where no other roots or ensilage are available.

Kalamazoo Co. H. M. B.
I think Mr. B.'s system off feeding is

I think Mr. B.'s system off feeding is excellent and the ration is a good one. Clover hay and good corn fodder make a number of cows he wants to keep, I can liberally. I think, however, that he can good roughage, that is, if they are fed change his grain ration somewhat and get better returns for the money invested in feed. I would not feed the oats or the rye in the ration. Cut them out entirely and increase the corn and cob meal to 100 lbs. instead of 75 and then I would put in 100 lbs. of oil meal in the place of 65 lbs. of oats and 120 lbs. of rye and feed in the same manner as before. I am quite positive that this will cheapen the ration and that you will get fully as good, if not better, results, from your cows The system of breeding known as grad- than you are getting now. I think the practice of feeding a small ration of tively unimproved cows to a pure-bred potatoes to the cows where you have no The first cross would result in one- ensilage, a most excellent one to keep half blood, that is, the calves would con- the cows in good thrifty condition, and I GALVES RAISE THEM WITHOUT MILK tain 50 per cent of the blood of the sire. am sure that potatoes fed under these tain 50 per cent of the blood of the sire. am sure that potatoes fed under these

**Are They Afraid?** 

Twice this year we have publicly and widely made the following fair offer to manufacturers of common cream separators.
again repeat it:

If any maker of common cream separators will print the names and addresses of all persons who—for any reason whatever—exchanged Tubulars for his machine during 1909, we guarantee to print a list AT LEAST TEN

TIMES AS LONG of those who discarded his class of machines for Tubulars during 1909. No manufacturer has accepted this offer. Are they alraid? Is not their silence the best proof that Sharples Tubular Cream Separator sales exceed most, if not all, others combined—that Tubulars probably replace more common separators than any one maker of such machines sells? Could you ask any better reason for choosing the simple, sanitary, easy-to-clean Sharples Dairy Tubular—The World's Best?

World's biggest separator factory. America's oldest separator concern. Branch factories in Canada and Germany.

New Catalog No. 152.



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

Which is the Better



### 3 Years After Laying?

A composition of tar paper roofing which dries out in a few months, rots, and is a constant fire menace—or a galvanized, fire-proof Edwards Steel Shingle Roof which outlasts composition roofing six times and wood shingles four times.

Yet Edwards Steel Shingles cost half as much as best cut wood shingles and about the same as high-grade 3-ply prepared roofing.

#### **Edwards** "REO" Steel Shingles Easy to Put On-Cheapest Fire Insurance

Come in stamped sheets of finest Bessemer Steel, 5 to 10 feet long, covering width 24 inches, either galvanized or painted. Can be laid with hammer and nails. No soldering—no tarring—no trouble. \$10,000 Guarantee Bond Against Lightning. We will refund amount paid for our steel shingles if your roof is damaged by lightning. Buy at Factory Prices. We are largest makers of iron and steel roofing and pay the freight on all Steel Shingles: Plain, Corrugated, V-Oring Roofing: Imitation Brick Siding, etc. Send for our lowest factory prices delivered, also for free catalog No, 250. Write today.

The Edwards Manufacturing Co. 220-250 Lock Street [11] Cincinnati, Ohio





## What Ails You?

Do you feel weak, tired, despondent, have frequent headaches, coated tongue, bitter or bad taste in morning, "heart-burn," belching of gas, acid risings in throat after eating, stomach gnaw or burn, foul breath, dizzy spells poor or variable appetite, nausea at times and kindred symptoms?



If you have number of the considerable number of the above symptoms you are suffering from biliousness, torpid liver with indigestion, or dys-pepsia. Dr. Pierce's Golden Medical Discovery is made up of the most valuable medicinal principles known to medical science for the permanent cure of such abnormal conditions. It is a most efficient liver invigorator, stomach tonic, bowel regulator and nerve strengthener.

The "Golden Medical Discovery" is not a patent medicine or secret nostrum, a full list of its ingredients being printed on its bottle-wrapper and attested under oath. A glance at these will show that it contains no alcohol, or harmful habit-forming drugs. It is a fluid extract made with pure, triple-refined glycerine, of proper strength, from the roots of native American medical, forest plants. World's Dispensary Medical Association, Props., Buffalo, N. Y.

### No Tank, No Fan No Freezing

Water

cooled too

but no separate tank to cart around. Water cooled - but couldn't be injured if the water froze solid-and guaranteed so. Strong as any engine made - but weighs one third less; easy to handle. Always pulls more than promised. All these things are true of

Gasoline ENGINES



COITDE Did you ever try Dr. Warren's Goitre Remedy, the remedy that removes the unsightly Goitre while you sleep. Or Dr. Warren's Asthma Catarrh and Hay Fever Remedy, the remedy that cures you at home. The remedy that is Guaranteed. Write for testimonials. Prepared and manufactured by Dr. F. A. WARREN & Co., Tekonsha, Mich.

DEHORN YOUR CATTLE With the quick, easy, painless KEYSTONE DEHORNER

Dehorned cattle are quicker and better money makers. Any one can do it. Write for Free Booklet on Dehorning. M. T. PHILLIPS, 125 Main St., Pomeroy, Pa.

WANTED—A married man to work on dairy farm and operate B. L. K. Milker. Good wages, steady work. F. G. HACKER, Mt. Clemens, Mich.

conditions are well worth 25c per bushel and I believe even more for food. Perhaps their chemical analysis would not show more than this value with the present price of other feed but the succulency and added palatability to the ration is of considerable value and ought to be reck-

#### SHALL THE CREAM BE RIPENED BEFORE CHURNING?

Referring to an article from your issue of 5th inst., which advises heating separator cream to 180 degs., should it be churned immediately after cooling to proper temperature, or should the cream be ripened to proper acidity before churning. Would it be necessary to use a starter? I have been unable to ripen cream under 36 to 48 hours this winter without starter. Will heating to 180 degs. affect quality of butter?

Cheboygan Co. H. T. R.

If you have been making ripened cream

If you have been making ripened cream butter and your trade demands it, and it probably does, you will have to ripen the cream after heating it, or pasteurizing it. If you cool the cream to 70 degs, it will be much better, in fact, almost necessary to use a starter. If your last churning was all that it should be, you could use some of the buttermilk for a starter. Of course, it is better to have a starter made from pure culture but if you only have a small amount of butter to make, it is not very practical to have this. It will not injure the butter to heat the cream to 175 or 180 degs., provided you cool at once to 70 degs. Many creameries now pasteurize the cream, which is simply heating it to 170 to 180 degs. and cooling it quickly. Many of them churn at once and produce sweet cream butter.

#### STORING TURNIPS-BUCKWHEAT BRAN.

Please let me know the best way to store turnips for stock; they seem to heal and rot. Also, do you consider buckwheat bran equal to wheat bran to be fed to milch cows, mixed with corn meal and turnips? turnips? Mecosta Co.

Turnips can be stored in cool cellars. The tops should all be carefully removed as a few tops will cause the turnips to heat and spoil. If the cellar is properly ventilated early in the season large quantities of turnips can be stored together without any danger of heating, but the cellar must be kept cool. Sometimes in the absence of a good root cellar, turnips and other roots are stored in pits in the field and then hauled to the barn a load at a time as wanted.

If by buckwheat bran is meant the hulls of buckwheat, they are of little value as food. They consist largely of crude fibre and are consequently not very digestible. Buckwheat middlings are a splendid dairy food, containing a high per cent of protein (over 20 per cent), and of greater value, consequently, than wheat bran.

#### TEOSINTE FOR COW FEED.

I would like to know what you think of teosinte as a green or dry feed for cows or any other farm stock. How would it be to put it in a silo with corn, or alone? Last year we raised a small patch of teosinte. It was planted about the middle of June and cut for cows in September. We estimated that it produced about 40 or 45 tons of green feed on an acre. The cows ate it as readily as corn. We did not have enough to give it a thoro test and find actual benefits.

Kalamazoo Co. H. G. H.

This plant is a relative of the corn The two plants will mix if grown close together. It is not usually supposed to be of great value as far north as Michigan. Our experiment station grew some several years ago and report that it only grew four or five feed high. In some other places it has done better, depending largely on the season. This plant wants a hot, moist climate. It makes good feed either green or dry, and can be safely put in the silo, but from have heard of the plant. I would not grow any considerable acreage until I had tested it carefully.

#### MILKING THE HEIFER.

Some care and discrimination is required in breaking in young animals to the milking operation. It is not to be expected that a heifer should allow without protest the same liberties taken with her udder as does an animal that has several times been thru the mill. In her first experiences with the milkman the young animal should be petted a little and talked to before milking and her udder gently handled and rubbed. Tremors and shivers will possess her at the new experience, but as soon as she learns that the milking relieves the pressure her confidence will increase. G. E. M.



## THE **Business Man's** CREAM

The DE LAVAL is the BUSINESS MAN'S Cream and the men who use cream separators AS A BUSINESS use the DE LAVAL. Ten years ago there were a dozen different makes of creamery or factory separators in use. Today over 98 per cent of the world's creameries use DE LAVAL separators alone, and no effort is longer made to sell any other kind.

It means a difference of several thousand dollars a year whether a DE LAVAL or some other make of separator is used in a creamery, and users of factory separators have found that they either had to use DE LAVAL separators or get out of business. They could not meet competition otherwise. Thousands of other makes of separators have been thrown onto the scrap heap in consequence.

Exactly the same differences exist, on a smaller scale, in the use of FARM separators. But the farm user doesn't know it. Nine time out of ten he can't tell when he is wasting \$50. or \$100, a year in quantity and quality of product through the use of an inferior separator

But every FARM user of a separator KNOWS that if it is absolutely necessary to use a DE LAVAL separator with the milk of a creamery it must PAY relatively well to do so on the farm. No amount of argument can get around that unanswerable con-

### THE DE LAVAL SEPARATOR CO.

NEW YORK

AND UPWARD

THIS OFFER IS NO CATCH.
It is a solid, fair and squ

178-177 WILLIAM STREET MONTREAL

42 E. MADISON STREET CHICAGO

14 & 16 PRINCESS STREET WINNIPEG

DRUMM & SACRAMENTO ST& SEATTLE

\* \* 95 THE LOW AMERICAN **SEPARATOR** EXCELS ANY SEPARATOR IN THE WORLD

OUR LIBERAL TRIAL ENABLES YOU TO DEMONSTRATE THIS. While our prices for all capacities are astonishingly low, the quality is high. Our machines are up to date, well built and hand-scale with the cases skim closer, have a capacities are up to date, well built and hand-scale with the cases skim closer, have a capacitie with the cases skim closer, have a separator. Thousands of medical proposed with the capacities of the capa

proposition to turning a proposition well made and well finished cream separator complete, subject to a song trial and fully guaranteed, for \$15,95. It is different from anything that has ever before been offered. Skims i quart of milk a minute, hot or cold, makes thick or thin cream and does it just as well as any higher priced machine. Any proposition was not been and the skind of that it has been discovered by the state of the AMERICAN SEPARATOR CO., Box 1061, BAINBRIDGE, N. Y.

Which One Will You Test on Your Farm. for Ninety Days? Freight Prepaid

Which will you try, 30 Days' Free or 90 Days' Ap-

proval Test?

—Any capacity from 200 to 950 pounds per hour, according to your needs, and I'll save you from \$25.00 to \$50.00 on the price.

—The only Separator whose gearing runs in a "Bath of Oil" like a \$5,000 automobile—Feature worth \$50.00 alone.

—Automatically oils itself—Pour oil at the top, once a month from your oil jug or can—No danger of running dry, or ruining it like others—No oil cups to remember to fill or turn up twice a day.

—Dust-proof—Danger-proof—All gears enclosed—simple standard built and absolutely dependable.

GALLOWAY'S "Bath in Oil" HIGH GRADE STANDARD CREAM SEPARATORS

—Easiest to clean and the few parts come out easy and can't get back out of place.

—Easiest to run—high crank—low tank. With no high lifting and no 'back-breaking' cranking.

—Gets the finest quality cream and all of it—no lumps or churning, as Nature's true principle is followed without forcing either the milk or cream the wrong way up or down.

—Skims closest in any climate or season, no matter whether your milk is warm or cold.

—Is as handsome a machine, compact and substantial, as you ever saw or could find. Beautiful finish.

arator Book—post paid—Free, so you and your wife and the boys and girls can talk it over and then try one of my separators under my easy plan for you to do it. You'll call it the best if you test it alongside any of the highest priced \$85.00 and \$110.00 separators sold by anybody today—makers—catalog houses—dealers—jobbers or anybody else. Write me today.

Wm. Galloway, Pres. WM. GALLOWAY COMPANY 643 Galloway Sta., Waterloo, la.

Whether you keep one cow or fifty, you are now losing at least ONE-FOURTH of your butter money. You can't possibly get more than three-fourths of the cream by hand skimming or water separators. You lose enough butter money every few months to more than pay separators price for the size of cream separator you need. A New Butterfly and factory price for the size of cream separator you need. A New Butterfly and in the great sign is done, just the same as any \$100.00 machine. It purifies the milk for your table, does away with washing dirty pans and crocks, gives warm, fresh skim milk to feed the calves, pigs and chickens; skims 1 quart of milk per minute; runs so smoothly and easily a child can operate it; cleans more quickly and perfectly than any other cream separator. Read why in our free 1910 catalog just printed. Every New Butterfly Cream Separator made in our own factory, shipped direct to you on 30 days free trial and guaranteed a lifetime. Write for catalog to any It is free. Address ALBAUGH-DOVER CO., 2190 Marshall Blvd., CHICAGO

3350

and

AND UPWARD A New Butterfly
Cream Separator
will pay for itself in
just a few months.
After that it will
make \$10.00 to \$15.00 (28)

Just Say "Saw your ad. in the Michigan Farmer" when writing advertisers

"THE NAME TELLS A TRUE STORY." Superior Grain Drills are used with success, satisfaction and profit by the most successful farmers in all parts of the world where grain is grown. It matters not where you live, what your seeding conditions are, what seeds you wish to plant, or if you use fertilizers, how obstinate they are to handle, you can get a Superior Drill that will do your work in the best possible manner with the least labor for man and team. Superior Drills must do all that is claimed for them, for they are sold with a plain, honest guarantee that means much to the purchaser. Write today for a Superior catalogue to The American Seeding-Machine Co., Incorporated, Springfield, Ohio. Then go to your retail implement dealer and insist seeing the Superior Drill. Take no substitute.



That is what you get from our seed. We have perfected several varieties of potatoes that are unequaled in quality and yield. Our customers have had wonderful success with our potatoes, beans and peas—they are our specialties—been years developing them to their present state of perfection. Let us send you our 112 page catalog of hardy, Northern-grown field, vegetable and flower seeds. Write to-day, DARLING & BEAHAN, BETOSKEY, MICH.





## **CHOICE NURSERY STOCK**

FOR ORCHARD, LAWN and GARDEN, From Grower to Planter—LOW PRICES. Forty Years' Experience in well-known GREAT NURSERY CENTER. Write for catalog. SEND WANT LIST. THE MUTUAL NURSERIES,

WING'S 120-DAY YELLOW. Yields close to the Improved White Cap, and is a splendid, reliable variety. We also grow REID'S YELLOW DENT, CLARAGE and other choice varieties. Write for Catalog No. 42 WING SEED CO., Box 442 Mechanicaburg, Ohio



ALWAYS mention the MICHIGAN FARMER when you are writing to advertisers.

BOXES FOR FANCY MICHIGAN APPLES.

The movement now well under way to abandon the barrel for the box, as a package to market the fancy product of Michigan apple orchards, is certainly to be commended. While the movement has humus, the great value of which as an the largest number of supporters in the aid in the conservation of soil moisture western part of the state where fruit is and in mechanically improving the con-a more important part of agriculture, dition of soils we should by no means than in other sections, yet it is true that the leading apple growers thru the center and eastern portions are likewise looking farmer, as he increases the area devoted to the box as the proper receptacle for shipping their best grade of apples. The question has been agitated for some time. Isolated parties have practiced it and



Black Knot on plum twigs. The affected parts should be cut out and burned.

found that the profits from their orchards were considerably increased thru this superior method of marketing. Should the practice become general, the individual shipper will not only receive the benefit naturally coming from his individual crop, better "put up," but he will inherit an added benefit from the community reputation that would follow. Progressive fruit growers are certain that the practice will become a necessary part of the work of the best producers. Progress demands It is therefore essential that packing boxes be not abused as it can be, for should the public lose confidence now by improper packing, as it has lost confidence in the past by unscrupulous buyers and growers "deaconing" their packages, it will delay the day when Michigan apples will again enjoy the high standard which her fruit merits. We believe that a state law could be made to contribute to the success of this movement by compelling the grading of fruit according to certain required standards. It is not only expedient but right that the fruit growers of Michigan be protected and we believe it a duty on the part of the commonwealth to give at least reasonable relief when their business and reputation are open to this danger of allowing every person who lacks moral honesty to palm off upon the public a package of fruit that is fraudulently marked without making himself liable to the law. A measure of this nature would help every honest person, whether buyer or producer.

#### ORCHARD FERTILITY.

The past season's bountiful fruit crop and its highly remunerative returns will prove an almost irresistible incentive to the fruit grower and general farmer who is so fortunate as to be located well within the fruit zone of western Michigan, to enlarge the area devoted to this (without doubt) the best paying of the great diversity of crops to which her climatic conditions and varying soils have proven so specially adapted. While fruit growing is bound to become more of a specialty in this highly favored region, we certainly do not think it advisable for the average farmer to rush headlong into the fruit business to the exclusion of everything else, as such an extreme might possibly prove in coming years, as disastrous to our resources as the production of cotton exclusively has proven to the south.

bushels per acre crop of apples will re-nove from the soil as much fertility as an average crop of wheat, it is plainly time, as the growth of tree and production of fruit demand, be restored to the soil. As potassium, nitrogen and phosphorus are the elements of fertility most

rapidly exhausted, these can be most cheaply restored to the soil by the application of stable manure, if the supply is adequate to the demands of the orchard in addition to those of the remainder of the farm. While these elements can be restored to the soil by application of the commercial forms, yet to rely upon them exclusively we do not think results would prove perfectly satisfactory, as under the clean culture method the soil would soon become practically destitute of underestimate.

As will prove the cast with the average to fruit, he decreases in the same ratio the area devoted to diversified farming consequently the number of live stock and the quantity of manure manufactured, the annual application of which with a short and judicious rotation of crops in which clover has figured most conspicuously, has been barely sufficient to maintain the fertility of the soil under well managed system of diversified farming and live stock production or dairying.

The question presents itself, how is the fertility of these rapidly increasing areas devoted to fruit growing going to be maintained or added to. In many instances the land to be so utilized is a sand hill, the soil of which has become so depleted as to render its devotion to the ordinary field crops no longer profit-By the thoro culture method as practiced by most successful growers, little or no opportunity is afforded to add humus and fertility by the growing and plowing under of crops excepting as is afforded by the brief period of growth intervening the last cultivation and the end of the growing season, it is plainly to be seen that the fertilizing material will have to come from the balance of the farm-which will prove a "rob Peter to pay Paul process"-or the commercial forms will have to be used.

In our judgment the problem of the maintenance of soil fertility is to the fruit growers as well as to the general farmer a most vital one and demands our best thot and closest attention to every detail. For upon its proper solution depends as much as upon any other one essential, the future success of orchard growth and fruit production.

Indications are that there will be more fruit trees planted in most sections of



English Walnuts matured in latitude of Grand Rapids.

this fruit belt the coming season than in any previous three. While it is encouraging to know that fruit growers and awakening to th bilities of fruit growing, it is apparent that many mistakes will be made in the planting of these new orchards to avoid which we think the only safe plan for the amateur would be to consult some good, reliable authority as to kinds and varieties best suited to location, soil,

Mason Co. HOMER SHIRLEY.

as has been claimed, that a 250 MANURING AND FERTILIZING TRUCK CROPS.

Information recently received from the evident that fertility must, from time to Maryland experiment station concerning the results of several manuring and fertilizing experiments with truck crops in which it was sought to bring out the relative values of stable manure and com-

NURSING MOTHERS

show the beneficial effects of

in a very short time. It not only builds her up, but enriches the mother's milk and properly nourishes the child.

Nearly all mothers who nurse their children should take this splendid food-tonic, not only to keep up their own strength but to properly nourish their children.

FOR SALE BY ALL DRUGGISTS

Send 10c., name of paper and this ad. for our beautiful Savings Bank and Child's Sketch-Book, Each bank contains a Good Luck Penny. SCOTT & BOWNE, 409 Pearl St., New York

Vick Quality Seeds

You may be able to save a few cents by buying ordinary seed instead of Vick Quality Seed, but you will count your loss in dollars when you come to gather in your crop. We have been proving this to thous and so f gardeners during the past sixty years. Get your seed this season from us and we will prove it to you, too, by the

this made it bigger, better, more helpful than any we have issued in the past 60 years. Everybody interested in gardening or farming should have it. We send it free on request. Write for your copy to-day.

JAMES VICK'S SONS, 438 MAIN ST., ROCHESTER, N. Y.



vegetables, plant the best seeds. Ferry's Seeds are best becaus they never fail in yield or quality. The best gardeners and farmers everywhere know Ferry's seeds to be the highest standard of quality yet attained. For sale everywhere.

FERRY'S 1910 Seed Annual D. M. FERRY & CO. DETROIT, MICH.



### Seeds, Plants, Roses,

Bulbs, Vines, Shrubs, etc. Hundreds of car lots of FRUIT and ORNA-MENTAL TREES.

MENTAL TREES.

1200 acres, 50 in hardy Roses, none better grown, 44 greenhouses of Palms, Ferns, Ficus, Geraniums and other things too numerous to mention.

Seeds, Plants, Bulbs, Roses, Small Trees, etc., by mail postpaid. Safe arrival and satistaction guaranteed. Immense stock of SUPERB

faction guaranteed. Immense stock of SUPERB CANNAS, the queen of bedding plants. 50 choice collections cheap in Seeds, Plants, Roses, etc. Elegant 168-page Catalog FREE. Send for it today and see what values we give for your money. Direct deal will insure you the best at first cost. 56 years.

THE STORRS & HARRISON CO.,
BOX 204, PAINESVILLE, OHIO

### TREES THAT GROW

Apples 6c, Peach 5c, Plum 12c, Cherry 15c. Best quality, good bearers, grafted stock, not

Coreless" Tomato, the bof all tomatoes.

German Nurseries · Box 127, Beatrice,

### Your Garden



#### Bargain Flower Novelties

To put our Book in the hands of everyone who makes a garden we mail it with these splendid flowers for 20 cents—two dimes.

d flowers for 20 cents—two dimes.
35 seeds Sweet Peas, Spencer Mixed
15 seeds Kudzu Vine
100 seeds Poppy Cornell
100 seeds Pansy Giant Mixture
15 seeds Tall Nasturtium, New Coquette
25 seeds Marigold Eldorado
15 seeds Japanese Morning Glory
25 seeds Cosmos Lady Lenox
100 seeds Feathered Coxcomb

Vaughan's Seed Store
84-86 Randolph Street, CHICAGO
or 25 Barclay St., NEW YORK

On Free Trial NO MONEY IN



The Hurst Potato and Orchard Sprayer



**Auto-Sprays** THE E. C. BROWN COMPANY
32 Jay St., Rochester, N. Y.

SEED CATALOG—Send us your name and address, and we will mail you free our new 1910 catalog of seed potatoes, seed oats, seed corn, alfalfa seed, in fact everything in seeds.

MACE & MANSFIELD, Greenville, Onio.

WHOLE SALE PRICES
On Strawberry, Raspberry, Blackberry, Curunt and Grape Plants. 18th annual descriptive
and illustrated wholesale and retail catalog FREE.
A. R. WESTON & CO., B. D. 1, Bridgman, Mich

PEACH TREES 4 and 5c. orchard size, Elberta, etc. Kansas

Peach Trees 3c, Cherry 12c and up. Apple, Pear, Plum, Quince, and all kinds of Trees and Berry Plants. Peach Blow Potatoes, B. P. R. Chickens and Eggs. Ct. Free.

ERNST NURSERIES, Moscow, Ohio.

Choice Strawberry Plants Carefully grown, Leading Sorts. Send for 1910 list. GEORGE E. STARR, Royal Oak, Michigan.

STRAWBERRY PLANTS at \$1 per 1000 and free. ALLEN BROS., Paw Paw, Mich.

FRUIT TREES the best for Michigan Planters. Healthy, Direct to you at great Monoy-Saving Prices. Handsome 1910 Catalog and price List FREE. Write to-day. CELERY CITY NURSERIES, Kalamazco, Mich.

mercial fertilizer, plowing under commercial fertilizer as compared with using it as a top-dressing harrowed into the soil just before planting the crop, heavy and light applications of commercial fertilizers and of fresh and rotted manures, rotted

manures turned and unturned while in the compost heap, commercial fertilizers derived entirely from mineral sources and those derived entirely from animal and vegetable sources, and the use of stable manure as compared with commercial fertilizer for sweet potatoes.

The manures and commercial fertilizers were used in connection with green crops turned under. As nearly as possible, the same amount of actual plant food was supplied in the chemical fertilizer as was found in the stable manure. The results briefly summarized, are as follows:

Stable manures always increased the yields, but valued at \$2 per ton did not give as much profit as commercial fertilizer.

Fresh manure spread in winter did not give as much increase as the same amount rotted and plowed down at the same date in the spring.

Turning the manure while rotting was better than heaving it without being turned.

Commercial fertilizers plowed under in the spring invariably gave larger yields than when sowed on the surface just before planting in the summer.

About 750 pounds of commercial fertilizers seemed to be more profitable than three times that amount.

Continuous crops of sweet potatoes on the same land does not appear to be bad practice.

The quality of the crops, cabbage and potatoes especially, grown upon the check plats, was of very poor grade.

The soil on plats heavily dressed with mineral fertilizers does not seem to have been changed or injured any more than where the organic fertilizers were applied.

#### RABBITS DO DAMAGE.

The usual number of complaints are now being made of rabbits gnawing the bark of young fruit trees. It is practically impossible to keep the rodents off the premises but much can be done by removing all brush piles and rubbish heaps where the animals can establish head-quarters. Tree protectors should be proided for young trees during the first few seasons. These are inexpensive and easily applied. Mounding the soil about the trunks of the trees is beneficial here as well as in other ways, and especially assists when the protectors are used. Better avoid using tar preparations. The application of fresh cow manure to the gnawed parts when the sap starts to move often assists trees in living thru experiences of this kind when, without the aid of the material they would likely succumb. Bridge grafting is also recommended, but this practice can hardly be advised for ordinary commercial trees because of the difficulty in doing a successful job. But do not destroy the damaged trees until they have had a chance to grow, since a thin layer of growing tissue will often replace the whole growing sur-

#### SOME COLD FACTS IN ONION CULTURE.

In an article recently published in an esteemed contemporary, entitled "Good Onions Grown From Seed," we heartily agree with the writer in many points: as to thoro soil preparation, culture, discarding all but fresh and vigorous seed, early sowing, etc.

One point to which we desire to call attention is the following: "No beginner should attempt to grow onions from seed on a large scale." "Practice makes perfect," is an old saw, but nevertheless very true in general and Raspherries, 88 per 1000. Catalog Ires. W. A. ALLEN & BONS, Geneva, Ohio. onion culture. There is a "know how" to the work that can only be gained by practice, and no amount of telling or advising on paper will land the beginner at the goal of success. The writer of the article suggests that a quarter of an acre should be the maximum limit for a grower with no previous experience. Now, I would not set the limit so close as this, but it is best for the novice to look twice before leaping into a large field for the detail of growing a successful crop involves much of labor and forethot and the uninitiated grown from thorough will very likely let many important things slip thru his fingers. This by no means is set up as a bugbear or to discourage HARDY ENGLISH WALNUT TREES. Write but rather to council moderation and cau-Instrated booklet on English Walnut culture.

A. C. POMEROV Lockport, N. V English Walnut Farm, ition against venturing too far on an un-

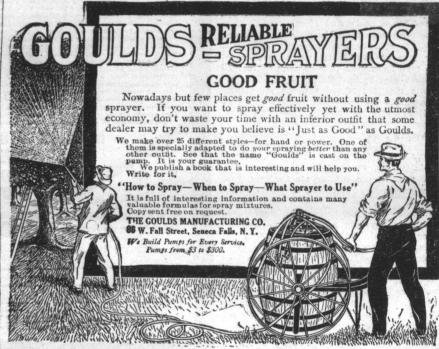
Washington Comfort Shoes Genuine comfort—that's what it means to wear the stylish Martha Washington Comfort Shoes. They fit like a glove, and insure complete rest and relief. No buttons or laces-just slip them on and off like a slipper. Elastic at the sides You will never provides perfect fit over any instep. know how comfortable a good looking shoe can be until you have worn MARTHA WASHINGTON COMFORT SHOES Beware of imitations. Only the genuine have the name Martha Washington and Mayer Trade Mark stamped on the sole. Refuse substitutes. Your dealer will supply you; if not, write to us. FREE - If you will send us the name of a dealer who does not handle Martha Washington Comfort Shoes, we will send you free, postpaid, a beautiful picture of Martha Washington, Size 15 x 20. We also make Honorbilt Shoes for men, Leading Lady Shoes, Yerma Cushion Shoes, Special Merit School Shoes and Work Shoes. F. Mayer Boot & Shoe Co. MILWAUKEE, WIS. MANAGER STATE OF THE STATE OF T



THIS SHOWS THE

#### H. P. SPRAMOTOR ARRANGED FOR

SPRAYING POTATOES.





Diamond Joe's Big White—A strictly new variety. None like it. It is the Earliest and Best Big White Corn in the World—Because it was bred for most Big Bushels, not fancy show points; because grown from thoroughbred inherited stock; every stalk bears one or more good ears, because scientifically handled, thoroughly dried and properly cured and had the most rigid examination. Big Seed Catalog FREE. It tells about all best farm, grass, garden and flower seeds grown. Write for it today. Address RATEKIN'S SEED HOUSE, Shenandoah, Iowa.

When you are Writing to Advertisers please Mention the Michigan Farmer

\$7.50

SPOT CASH

REDUC-

FROM MY

REGULAR

1910. NO COM-

PETITOR HAS

EVER TRIED TO

known sea. It is a profitable crop when well grown, but peculiar in the detail as it seems to require more practical knowledge for successful growing than almost any other ordinary crop.

There is one point in the article, however, with which we cannot agree, and to warn growers of its fallacy was our particular reason for discussing the arti-"Once a plot is selected for onions it should be set apart from year to year for that purpose with successive expectations of greater yield. This takes into consideration appropriate annual fertilization. Unlike other crops rotation is not important, unless it be to eradicate some persistent foul weed slowly gaining ground. The safe conclusion is that onions may be planted from year to year on the same ground with impunity." grant that this was the old theory and we believe thoroly well grounded, too. It was the old practice to grow from year to year on the same ground and the suc cessful growers of years ago agreed that with proper culture and fertilization the twentieth crop on the same ground would be better than the first. This, we believe, was true under the conditions of years ago, and it is exceedingly unfortunate for the onion growers of the present day that those conditions have so radi-cally changed. But insect pests and fungus diseases have wrot radical changes in the culture and management of almost every crop, and onions are no exception. Years ago we could grow the apple crop without ever giving a thot or care to the numerous enemies that infest the orchards today. About all we had to do was to plant the trees and at the proper season gather the crop. Today it is a fight for your life to preserve the crop until gathering time, and thus with all crops external vigilance is the price of success. Years ago the onion maggot, its thrips, the smut and rust were unknown quantities in onion culture. Today they are all in evidence and in most localities are getting in their work with a vengeance, and it is generally conceded that the best known preventive, if not cure, is change of location. I recall one extensive seed farm where at one time the largest crop of onion seed ever grown east of the Rocky Mountains was produced, but successive years of growing the onion crop in its various forms induced these pests and diseases until the enterprise had to be abandoned and other fields of operation were sought. So, under present conditions, we cannot grow the crop from year to year upon the same ground and it is unwise to attempt it. While the fact is much to be regretted, rotation is the only safe method and the writer would hesitate to plant two suc-

cessive seasons upon the same ground. J. E. MORSE. Wayne Co.

#### HOW TO MAKE A GOOD STRAINER.

A part of the mixing station that deserves a word of attention is the strainer. Cheese cloth, burlap, or the small brass strainers which are so commonly seen are not what the man who has considerable spraying to do wants to bother with. I do not need to speak of their poor qualities; you know them. A far more satisfactory strainer is made something like this: Make a water-tight box with slanting sides so that it is about fifteen inches square at the top and ten inches square at the bottom. Have a piece of threeinch gas pipe or suitable outlet fitted in at the bottom; then fasten an eighteen or twenty mesh brass wire screen in this box so that it has an angle of about 30 degrees. Such a strainer is large enough to accommodate any sized sprayer and has the advantage of being a self-cleaner on account of the angle of the screen. O. K. WHITE. Agril. Col., Mich.

#### MICHIGAN FRUIT GROWERS AT FREMONT.

ening in Michigan will be further stimulated by the mid-winter meeting of the State Horticultural Society, at Fremont, Newaygo county, on Tuesday and Wednesday, March 15-16. In place of the usual program of lengthy addresses, all but the evening session will be devoted to the answering and discussing of nearly 100 practical questions that will be printed in the program and most of them will be assigned to practical fruit growers for answers. Much time will be devoted to latest experiences in spraying, including making and use of the lime-sulphur solutions. There will be a fine display of machinery, as well as of fruit. Those who attend will get the most improved ideas right down to date and will secure enthusiasm for undertaking the work of producing another bumper fruit crop this coming season. Drop a card for a program to Secretary C. E. Bassett, Fennville, and then arrange your work so as to attend. State Horticultural Society, at Fremont,

I WILL SEND YOU A "DAN PATCH SPREADER" ON

# MONTHS FREE TRIAL



### TWO BIG FREE DON'T BUY A SPREADER UNTIL YOU GET MY NEW SPREADER PROPOSITION WHICH **NOBODY CAN MEET NOR BEAT**

WANT YOU to send for my NEW Spreader pro-position. I've got the CHAMPION Spreader and the Champion Spreader Proposition that nobody can the Champion Spreader Proposition that nobody can to robeat. I quote you my Special low factory price for from my Dan Patch Spreader Factory, and make the most liberal easy payment spreader proposition ever heard of. I give you plenty of time to put spreader to the hardest possible test on your own farm

this spreader to the hardest possible test on your own farm and then I give you plenty of time to pay for it on easy monthly payments so that the spreader will more than earn its cost before you complete payments.

If you want the Biggest Spreader Bargain ever off ered in the history of the business, send for my big Dan Patch Spreader Book at once and let me show you how you can save \$50.00 on your spreader purchase. I guarantee to quote you the lowest price ever made on a high-grade efficient spreader, and guarantee to show you an actual net saving in dollars and cents over any other spreader made. My Dan Patch Spreader is the champion quality spreader, just the same as Dan Patch is the Champion Harness Horse of the world, and you'll find my Dan Patch Spreader is the world, and you'll find my Dan Patch Spreader a champion, a winner and a big moneymaker—just the same as Dan Patch himself has always been.

#### Remarkable Exclusive Features

My Dan Patch Spreader represents ten years' steady application of the best spreader ingenuity and brains ever devoted to the business, and I just want the opportunity to point out to you and explain in detail the most ingenious uniform spreading feature ever attached to any spreader, and to show you—absolutely convince you—in a few minutes' time that my new uniform spreading and distributing feature will add at least \$1.00 extra value to every load of manure hauled—\$1.00 extra over and above any other method or means used on any other spreader made. My big 12-inch, 4-color Spreader Book sets this proof down in unmistakable terms, and I'm only mentioning here one of several important features that mean hundreds of dollars extra profit to you if you use a Dan Patch Spreader. I want you know all about this new spreader invention and this Automatic Load Release, because it points out in the most positive Load Release, because it points out in the most positive way the fact that all other spreader manufacturer

MAIL METHIS \$7.50 FREE COUPON \$7.50

M. W. SAVAGE, Pres. The M. W. Savage Factories

MICHIGAN FARMER

have overlooked entirely the one most important pointthe one thing that absolutely insures even, uniform, exact apreading at all times and under all conditions in
which manure is found. No farmer can afford to invest
in a spreader of any kind without first investigating this
important discovery.

4 Months' Free Trial

I won't tie you down to any 30 days' trial. But I'll give you a full 4 Months' Free Trial On Your Own Farm so you'll have plenty of time to prove out every new feature of my Great Dan Patch Spreader and prove that feature of my Great Dan Patch Spreader and prove that my Dan Patch Spreader answers for every farmer and for all time the problem of manure distribution so as to extract the last penny of plant life value from it. I'm so enthusiastic over the success farmers have had in past years with my uniform Distributing Spreader Discovery, that I want everyone of my farmer, friends to give this great machine 4 months' proof-test free and demonstrate to their own satisfaction that I've got the spreader question settled to the satisfaction of every' farmer and for all time to come. Send for my big 12-inch, 4-color free Spreader Book today and f'il give you the opportunity to give my great Dan Patch Spreader a full season's test at my risk and expense.

Bargain Factory Price

I know this spreader business like a book, and I tell you I can give you \$60.00 excess spreader quality and give you the only spreader with a patented discovery that insures absolutely uniform distribution of all kinds of manure under all conditions, winter and summer. Foresight is better than hindsight, and I tell you it'll mean several hundred dollars to you if you just take a few minutes to investigate my great appreader proposition,

investigate my great spreader proposition,
And do it now, while my special \$7.50-spotcash-reduction offer is being made.

1 have unlimited facilities for manufacturing my
spreaders and my factory is under the personal supervision of the original spreader man, and all who know
the facts concede him to be the best equipped and best
informed spreader man in charge of a spreader factory
today.

informed spreader man in charge of a spreader factory today.

I make my Dan Patch Spreader in 5 sizes—each size has 5 distinct feeds and I make both the wagon-box spreader and complete spreader. My line of Dan Patch Spreaders is fitted to all uses, purposes and conditions—for small farms and large farms—and every one is sold direct from my factory straight to you at a Bargain Factory Price And All Freight Prepaid. My regular business, the largest of its kind in the world, enables me to make exceptional spreader offers and quote the lowest prices ever

made on quality spreaders, and I can make you a clear \$60.00 quality saving on any one of my five styles. I want you to get my straight-from-the-factory, money saving Spreader Proposition, for it! I) prove an eye-opener on this spreader business for a great many

#### Send for My Big Free 4-Color Spreader Book Now and Get My "\$50.00 Saved" Spreader Proposition

Saved" Spreader Proposition

You'll be delighted with my Big Colored Spreader Book and fascinated with the many beautiful pictures of Dan Patch 1:50 and my full line of Dan Patch Spreaders in colors. The front cover is beautiful enough for framing—it's made from an expensive drawing reproduced from the scene at the Minnesota State Fair when Dan Patch made the world's record of 1:55. It shows the \$0.000 people crowding around the mile track and the champion just passing the grandstand. It shows a fine view of Dan Patch, and right in the center of the painting there stands a beautiful 4-color view of the greatest spreader discovery known to the business—it's the Biggest Spreader Book ever Published and contains the most complete account of the spreader business ever published—besides that, it contains many pages of startling information about spreader quality and efficiency and reveals spreader secrets that will open the eyes of many who have never had an opportunity to learn about the inefficiency of the average spreader. Get this great Spreader Book and my "\$50.00 Saved" Spreader Proposition before you take another step toward getting a spreader. Send me the coupon today. I just want this one opportunity of opening your eyes to these spreader facts; and I'll guarantee my big Spreader Book will repay you a hundred times over for the little effortit will take for you to send me the coupon now.

SEND THE COUPON \$7.50 CASH REDUCTION ON THIS SPRING OFFER



THE EASIEST RUNNING SPREADER IN THE WORLD AND I PROVE IT TO YOU IN MY BIG BOOK

M. W. Savage, President The M. W. Savage Factories Co., Minneapolis, Minn.

SEND THIS COUPON FOR MY BIG SPRING OFFER.

Burpee's Seeds cost More than do most other "brands" but are worth much more than those that cost less! It is a fact that our

luction is less than it would be at half our prices,—were we willing to compete nerely in price. We aim to excel in QUALITY and seek the trade only of intelligent planters who desire to raise the CHOICEST VEGETABLES and MOST BEAU-FIFUL FLOWERS it is possible to produce. Are you able to appreciate the lifference in seeds? If so, you should read The Burpee Annual for 1910,—our complete catalog of 178 pages, with hundreds of illustrations and colored lates painted from nature. Name this Paper, write your address upon a postal card and this elegant book will come by eturn mail. Write TO-DAY! Address simply W. ATLEE BURPEE & CO. PHILADELPHIA PHILADELPHIA

PA TREES FOR PROFIT. My Free Booklet tells all about the 150 acres I am growing for telephone poles, Beats farming two to one. Write today, H. C. ROGERS, Box 114 Mechanicsburg, Ohio.

with some timber. Best lecation in Gauada for grain and cattle. Good climate. A PROVEN COUNTRY, with rallroads, civilization and good markets. This is the place to make money. Come and see for yourself the fine weather, tall grass, big crops. Easy terms. Cheap excursions. Our map and folder explain Canadian conditions with absolute tratifulness. Write SCAND.-CANADIAN LAND CO., 172 Washington St., CHICAGO.

When writing to advertisers mention The Michigan Farmer.

PERFECT POTATO PLANTING Every farmer knows the importance none of the faults common with common planters. Opens the furrow perfectly, drops the seed correctly, covers it uniformly, and best of all

### FARMS AND FARM LANDS FOR SALE OR EXCHANGE

FINE 160-ACRE FARM located in Oakland County.
Write for full description.
Address Box 35 R. No. 7, Pontiac, Mich.

Va. Stock Farm 231 Acres. 1 mile town, No blizzards. Cheap for cash. F. M. RAND, Keysville, Va.

For Sale or Exchange 134-acre Farm in Allegan Co.
Well located and improved.
Address, OWNER, Box 56, Route 3, Otsego, Mich.

FOR SALE -80 acres, 11-room house barn, 17 acres good timber Perms. A. Harvey, R. No. 38, Maple Rapids, Mich

DAIRY Route and Farm For Sale. Only route in city of 3,000. Fully equipped. Cement block stable, 3 silos. W. H. BOARDMAN, Vassar, Mich.

GREAT opportunities in Washington and Oregon Farm Lands. Write today for free lists. Rob-nson Land Co., B-1261 Empire Bldg., Seattle, Wash.

FRUIT GRAIN AND STOCK FARM For Sale in Oceana County. Write C. W. MORGAN, Shelby, Michigan, for lists FOR SALE—120 Acres house and pleasant Lake. M. SHEPARD, Byron, Michigan.

I SELL FARMS IN OCEANA. The best county in the United States; fruit, grain and stock. Write for list. J. D. S. HANSON, Hart, Mich.

If You Want to Buy or Sell Property, any kind, any kind,

FOR SALE or RENT 80 acres 34 miles from Howell, near Mich. Con. Milk Factory, good soil, fair buildings, timber and orchard. Address Box 15 R. F. D. No. 3, Howell

Michigan Farms—Fruit, Grain and Stock Farms in Barry, Eaton and Kent Co's. Big bargains; low taxes, good schools, churches and roads, splendid water and climate. Write for list No. 8. BUOKLES & MATTHEWS, Hastings, Mich.

MICHIGAN FARMS-Fruit, Grain and Stock Farms; big bargains; splendid climate, water, roads and schools. Write for list No. 4. BISHOP & BUCKLES, Has ings, Michigan.



I BUY, SELL AND EXCHANGE FARMS & BUSINESS PLACES QUICK CASH sales my specialty. If you want to buy or sell address. FRANK P. CLEVELAND, THE REAL ESTATE EXPERT, 948 Adams Express Building, CHICAGO, ILL.

Farm For Sale, Best Bargain in Mich. 278 acres in Mecosta Co., right at station on G. R. & I. R. R. About 220 acres free from stumps, 20 acres timber, good buildings, good soil, raise anything that can be grown in Mich. or, is a good stock farm. Time can be had on part of purchase price. Write for full description.

J. A. COLLINS, Howard City, Mich.

Farm For Sale.

\$2,645 Income Last Year.

A big money-maker and a splendid home; I1-room house, 70-foot plazza; running water, broad lawn, magnificent shade; big new barn; no repairs needed; 325 barrels of apples in season, other fruit; 100 acres rich soil; produce last year soid for \$2845. For quick sale price is only \$4800, part cash. See page 155, "Strout's Farm Buyers' Guide No. 22", copy free. E. A. STROUT Co., Station 101,

Union Bank Bidg., Pittsburg, Pa,

#### VIRGINIA'S SUNSHINE

G. W. KOINER,

Com. of Agriculture, Richmond, Va.

#### Fertile Farms in Tennessee \$5 to \$10 per acre-

Fortunes are being made on fertile Tennessee farms. They raise big crops of Cantalonpes, Cabbage, Tomatoes, Scring Beans, Green Corn, etc., also Horses, Cattle, Sheep, Swine, Poultry and Eggs. Write me at once for Free Literature. Til tell you how to get one of these aplendid farms for S to Sil per acre. Act quickly! H. F. Smith, Taf. Mgr., N.C.& St. L. By., Dept.P. Nashville, Tenn,

### ESTERN CANADA

ill continue."

or Bolliver recently paid a visit to Western Canada, and says: "There is a land hunger in the hearts of English speaking people; this will account for the removal of so many lowa farmers to Canada, Our people are pleased with its covernment and the excellent administration of law, and they are coming to you in tens of thousands, and they are still coming."

lowa contributed largely to the American farmers who made their home during 1909. Field urns alone during 1909. Field urns alone during year added vealth of the country close to cently paid a visit to ada, and says: "There

to the wealth of the country close to \$170,000,000.00

Grain raising, mixed farming, cattle growing and dairying are all profitable. Free Homesteads of 160 acres are to be had in the very best districts; 160 acres pre-emption at 88.00 per 160 acres pre-emption at 88.00 per delivery settlement, climate was excelled, soil the rich est, wood, we have had all and a battery bentifers a five particular and descriptive illustrative railway rates and descriptive illustrative pamphlet, "Last Best West," and other information, write to Suy's of Immigration, Ottava, Can., or to Canadian Gov's Art.

M. V. McInnes. 178 Jefferson Ave., Detroit, Mich.; U. A. Laurier, Marquette, Mich.; U. A. Laurier, Marquette, Mich.

Farms to RENT-Twelve miles north of Toledo. Good buildings, 160 acres or more. Farmer must have belp and stock to farm with. "B. E. BULLOCK, Samaria, Michigan.

MENTION THE MICHICAN FARMER when writing to advertisers.

PLANTING AND CARE OF THE ORCHARD.

This was a subject discussed by Prof. Wendell Paddock, of the Ohio State University, at the Round-Up Institute last week. Prof. Paddock expressed his preference for two-year-old trees which can be trained as desired from the start. He illustrates his talk by showing how he would prune the young trees, of which he had several specimens, the first, second, third and fourth year, at which time he would have the foundation laid for all future pruning, by having the head of the tree properly formed. He would head the trees down close to the ground and then prune so as to leave four or five main branches, so located as to leave no crotches which might split and thus in-These main limbs he jure the tree. would head back to a length of about 14 inches so that other branches would occur low down, using judgment at all times to have them properly spread, and in future pruning would keep the ends of branches well cut back so as to form a compact but low tree, easy to work upon in spraying and picking. Proper root pruning was also mentioned as an essential in preparing trees for planting. Th's was emphasized in a lecture given by Prof. Paddock in the evening, following his first talk, which was illustrated by stereopticon views. In this lecture his subject was, "Training Fruit Trees," and his talk included the proper training of older trees as well as young trees upon and immediately subsequent to planting and to which the same principles are applicable, except that each individual tree presents a problem by itself whica must be solved by the exercise of the judgment of the operator.

FREE SCHOLARSHIPS FOR EVERYBODY

Rochester, N. Y., March 2, 1910.—The Directors of Franklin Institute, today voted to prepare candidates for the next Railway Mail Clerk Examinations free of charge. A postal, containing the applicant's name, addressed Dep't R 48, is sufficient application.

#### CATALOG NOTICES.

Sweet Peas Up-to-Date is the title of n 80-page book published by W. Atlee an 80-page book published by W. Atlee Burpee & Co., of Philadelphia, Pa. It is destined to give both amateur and pro-fessional the benefit of their more than 20 years' experience in growing this fav-orite flower at Fordhook Farms.

lessional the benefit of their more than 20 years' experience in growing this favorite flower at Fordhook Farms.

Ernst's Nurseries, Moscow, Ohio, publishes a fine 32-page catalog, pr. "sely illustrating and fully decribing their have line of fruit tree and vines, ornamental shrubs, etc.

Ellwanger & Barry, proprietors of Mt. Hope Nurseries, Rochester, N. Y., are sending out a new general catalog of 100 pages. This is a large and comprehensive catalog, fully describing and illustrating many of the fruit and ornamental trees and shrubs listed by this company.

D. M. Ferry & Co., Seedsmen, Detroit, Mich., are publishing a 1910 seed annual of 100 pages, fully describing and illustrating their complete line of farm, garden and flower seeds. No Michigan home should be without this catalog.

German Nurseries and Seed Houses, Beatrice, Neb., are publishing a catalog book of over 100 pages, describing their full lines of seeds, plants and trees. The booklet is all its name implies.

Woodbine Nurseries, operated by W. A. Allen & Sons, Geneva, Ohio, F. D. 3, send an illustrated catalog showing their lines of shrubs, roses, grape vines, small fruit and ornamental trees.

How to spray, when to spray, and what sprayer to use are some of the things told in the handsome catalog of the Goulds Mfg. Co., Seneca Falls, N. Y. This catalog is printed in colors and shows a full line of hand and power spraying outfits, manufactured by this company.

The Elkhart Carriage & Harness Mfg. Co., of Elkhart. \$Ind., have issued a new booklet for 1910, which illustrates and describes their line of vehicles and harness and tells about their direct selling plan.

Thorburn's high class seeds are listed and their products described in the pro-

plan.
Thorburn's high class seeds are listed in the pro-Thorburn's high class seeds are listed and their products described in the profusely illustrated 144-page 1910 catalog of J. M. Thorburn & Co., 33 Barclay St., New York, N. Y. Wm. Galloway & Co., Waterloo, Iowa, are sending out a new 90-page catalog describing the large line of farm machinery and implements, gasoline engines, the manufactured by this well known

ery and implements, gasoline engines, etc., manufactured by this well known company and sold direct to the consumer. Every farmer should have this catalog which lists practically everything needed for the operation of the farm.

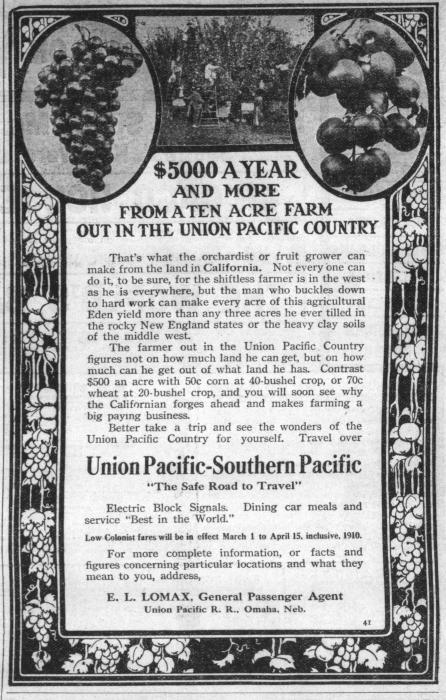
The Electric Wheel Co., Quincy, Ill., publish a 50-page illustrated catalog showing their line of goods, including steel wheels and wagons, farm, log, and lumber wagons of all sorts, special wheels and trucks, etc.

The Bateman Manufacturing Control of the special wheels and Grenloch, N. J.

and trucks, etc.

The Bateman Manufacturing Co., of Grenloch, N. J., manufacturers of the well known "Iron Age" farm and garden tools, have just issued their 1910 catalog describing this standard line of imple-Michigan Farmer.

The Chicago common council passed an ordinance prohibiting bakery establishments from locating in basements and also commanding that they provide proper sanitation.





or for that matter any size crop are easily and perfectly handled with the Johnston Mower. You not only get more Mower quality with a Johnston, but you get more hay—for they "cut all the hay." The Johnston Mowers are made to cut any kind of grass-every kind, on either level or uneven ground. They are easy to operate, no side draft-thus easy on man and team.

The Lever-Fold Mower enables the operator to lift the cutting-bar to a full or partially vertical position, and to lower again without leaving his seat, by the use of the foot or hand levers. Is thrown in or out of gear automatically or at will of the operator.

Other features: High, broad rimmed wheels; wide, light, yet strong main frame; dust-proof roller bearings; horizontal crank shaft; gearing, which is always in mesh, is back of main axle-gives balance. The fact is, space prevents giving all exclusive features, but you should send for our special Mower booklet and catalog.

We also make a one-horse Mower (No. 11) for small farms, orchards, lawns, and parks. Special booklet sent on request.

The name Johnston, remember, stands for independence—It has no trust or monopoly connections. "Be an independent farmer." Drop postal today for 1910 illustrated catalog. It's FREE.



### Save Jobbers, Wholesalers and Dealers Profits



Buy Farm Trucks and Wagons Direct from Factory at-Manu facturers cost with but ONE small per cent profit added. Don't fail to secure our prices. We defy competition either in price or qualify and guarantee to save you from \$5 to \$15 on every gear. Strictly high grade in every particular, Double trussed thimble skein or American Tobular Steel axels. The peer of all wheels—16's optox in standard of 12 and 14 and every pooks takes a holt. A card will bring catalog showing different styles and capacities, also prices that will surprise you. Do IT NOW. Yours for superior quality.

# Save 30 To 50% on Your Purchases!

CLOTHING

**DRY GOODS BOOTS-SHOES** 

HATS-CAPS

MILLINERY

**SUITS & CLOAKS** 

**FURNITURE** 

**CARPETS** 

HOUSEHOLD GOODS

Brand New Staple Merchandise and Supplies FROM Sheriffs', Receivers' and Manufacturers' Sales.

Thousands of satisfied customers know us as the "world's bargain center," and the prices at which we sell our goods justly entitles us to the name. Millions of dollars worth of high grade, brand new merchandlse hought by us at various sales is offered to the public at prices less than the original cost of production.

We will ship goods C. O. D. where a deposit of 25 per cent accompanies order. You need not pay balance until goods reaches destination and you have an opportunity to examine them at the depot. If you find any goods contrary to our descripton we will take them back and refund your deposit.

We offer an exceptional opportunity to those who buy now. Send us a trial order. Our responsibility is unquestioned. We have a capital stock of over a million dollars. Ask any Express Company or Bank. Write to the publisher of this or any other paper. We guarantee absolute satisfaction.

If you buy any goods from us and find them not fully up to your expectations, we will take them back and refund the full purchase price in addition to paying the freight both ways, so you take no chances when you deal with us. Our wonderful Catalog is Free. Send us coupon below.

LUMBER

MILLWORK

MACHINERY

FENCING

HARDWARE

ROOFING

**PLUMBING** 

IRON PIPE

HEATING **PLANTS** 

#### PRICE WRECKING SALE" OF FURNITURE.

Over \$300,000 worth of high grade, brand new furniture, carpets, rugs and linoleum. Everything needed to furnish your home complete No shoddy furniture in our stock. It is the best hat can be manufactured. It is built for the tastes of people who know real quality. Our goods are bought at Sheriffs', Receivers' and Manuacturers' Sales. This gives us a big advantage over any possible competition and the public gets the benefit of our buying operations. Write for prices on any article you may require. Our General Catalog shows all our wonderful furni-ture stock. When in Chicago visit our monster furniture salesroom, the largest in America.



#### MENS' SUITS \$4.95.

5,000 Brand New Mens'
Suits bought by us from a
"Hard up" manufacturer.
Made in plain black cheviet;
nsual retail selling price \$10.
With each order we include
an extra pair of striped
trousers without additional
cost. Comes is sizes 34-44
chest; 30 to 42 waist and 30
to 35 inseam. Price...\$4,95

BOYS' SUITS \$2.95.

A bankrupt stock of brand new handsome knickerbocker style combination suits, made of durable Wagoner Cassimere dark olive brown mixture, coat and breeches cut in the latest style and with every order we give ond extra pair of breeches. Sizes 8 to 16 years. Regular retail price \$5.00. Our bargain price \$2.95. Your money back if you are not satisfied.

### \$1.95 FOR THESE MEN'S SHOES.

3,000 pair from Receivers' 3,000 pair from Receivers' Sales; guaranteed first-class in every particular. Made from genuine patent colt skin, Have dull glove tops, oak tanned soles, swing last with extention soles, Cuban heels. An excellent, perfect up-to-date shoe for any man. All sizes. \$1.95 A thousand pairs of Ladies Colt Blucher shoes at... \$1.05

### LOWEST PRICES ON LUMBER.

Send us your Lumber Bill for our Estimate We will quote you on brand new high-grade, clean stock and make you prices lower than any one else can afford to sell it for. We own out-right over 50,000,000 feet of brand new lumber. There isn't a piece of second-hand lumber in our stock. All our Mill Work is also brand new If you will tell us just what you need, listing up each item correctly, we will quote you on the en-tire bill of material you need to construct your building. Our prices are always the low-est. We are selling more lumber and building material direct to users than any other concern in the world. Write us for our low estimate.

#### WATER SYSTEMS.



### HEATING APPARATUS.



We furnish complete
Hot Air, Hot Water
and Steam Heating
Plants of every kind.
It makes no difference
whether it is an old or
a new building, we can
furnish material at
real wrecking
prices. Our Speclal Heating Booklet, which we
send free to those interested. It
tells a l the facts and gives much
valuable information. Send us
sketch or diagram of your building or home and we will make
you an estimate. Anyone can install them with the aid of our
blue prints and free instructions.

RIACKSMITH SUPPLIFS

#### **BLACKSMITH SUPPLIES**



Horseshoes \$3.00
per keg. Horseshoe Nalls 7c per lib. Hammers, 80c, Forges from \$4.25
up; Anvils 6½c per lb. up. Everything you need in Blackstock. No matter what your needs, write us. Tell us what you need. We save you from 30 to 60 per cent. 30 to 60 per cent.

### STEEL ROOFING Per 100 Sq. \$1.60



100,000 Squares of new Steel Roofing which we are selling at the following prices, freight prepaid:

Corrugated, V Crimped or Standing Seam.

At these prices we prepay freight to all points east of Colorado except Oklahoma and Texas. Quotations to these points on application. Our high grade Calvanized Russ Proceder Russ

grade Galvanized Rust Proof Roofing at prices ranging from \$3.00 per square up. Write today for free sample.

#### BRICK SIDING Per 100 Sq. Ft. \$1.85.

\$1.85 buys 100 sq. ft. of our Pressed Steel Imitation Brick Siding, a fire-proof covering for buildings of every kind. It is easy to put on, requires no previous experience. Looks just like the real brick after you put it on your building, sheets are 24 inches wide by 68 inch long. We will prepay the freight if you live East of Colorado, except in the States of Texas or Oklahoma. The freight prepaid proposition refers only to this brick siding. Ask for samples.

METAL SHINGLES—Painted and Galvanized Write for description and lowest prices ever made.

### BEADED CEILING Per 100 Sq. Ft. \$1.85



Steel Beaded Ceiling \$1.85 for 100 sq. ft. of our New Metal Beaded Ceiling. It can also be used for siding. The sheets are 6 and 8 ft. long by 24 inches wide. The beads are small corrugations inch size, running the full length of the sheet. A fine ceiling for any general purpose. Easy to lay, requires no experience. We will prepay freight on this Beaded Ceiling at this price to all points East of Colorado, except to Oklahoma and Texas, prices to these points on application.



### 5 FT. STEEL HOG TROUGHS \$1.80.



#### RAWHIDE RUBBER ROOFING



The greatest bargain in the world. The greatest pargain in the world, Fire, hall and weather-proof. Not affected by heat or cold. Used in any climate. Made from pure asphalt. A strictly high-grade lasting covering. Recommended by fire underwriters, 108 ff. to a roll, with large headed nails and cement for laps. Requires no coating after laying.

Price per roll.

Price per roll.

1 Ply-Guaranteed 6 years... \$1.22
2 Ply-3 Ply-12 1.49
3 Ply-149
3 Ply-15 12 1.71
Freight paid to Ill., Ind., Ia., Wis., Ohio & Mich. Write for delivered price to other States, and Reofing Book.

#### WIRE FENCING Per Rod 152c.



Best and strongest Galvanized eavy Woven Wire Fence made. Brand new, all heavy wires, suitable for all uses. Guaranteed. 20 in. high, Hog Fence, price per rod. ... 15 pc 36 in. high, Stock Fence, price per Other heights are equally low prices.

35 in, high, Ornamental Lawn Fence, beautiful designes, price per lineal ft......10c.

\$36.00 BUYS A 2 H. P. GASOLINE ENGINE. We are offering the finest 2 H. P. engine ever produced at a price lower than you can secure it for elsewhere. It is strictly first-class and brand new and covered by a binding guarantee. (Write for Special Gasoline Engine Catalog.)

### PLUMBING MATERIAL



90c. buys our special flat rim, cast iron, white ename! Kitchen Sinks, new but slightly defective.
Price includes strainer and coupling. \$5.50 buys an ename! Bath Tub. \$10.00 is our price for a cast iron, roll rim, white ename! Bath Tub. \$9.50 for our white ename! low down tank Water Closet, complete out-fit. You can buy Wash Stands from us at \$3.25

IRON PIPE—A complete stock of new pipe-lack ½ in. at 3½; 1 in. at 4½; 1½ in. at 6e. per ft-alvanized, ½ in. at 4½; 1 in. at 5½; 1½in. at 5½. Other sizes at equally low prices.

#### BARGAINS IN SHINGLES.



50 carloads Washington Red Cedar shingles at exceptionally low prices. Our shingle mill connections on the Pacific Coast enables us to supply you the very best grades of shingles that you can positively rely on. We carry a tremendous stock of all grades in Chicago and can make immediate shipment. Special low prices on straight car loads. We guarantee grades. Write today for quotations. Tell us how many shingles you need.

Mill Work.—Save 25 to 50 per cent on brand new Mill Work. Our stock includes everything. Send us complete list for our low delivered prices.

### BARBED WIRE Per REEL \$1.65

\$1.65 Per Reel. At this price we furnish special high-grade galvanized brand new Barbed Wire. The price is per reel, and each reel contains 80 rods.



GALVANIZED WIRE SHORTS.

Per 100 lbs. \$1.40.

We have in stock several carloads of brand new Galvanized wire, known as shorts, that is, the lengths range from 50 to 250 feet.

No guarantee, however, as to length. Gauge 9-10-11 and 12.

Price per 100 lbs. \$1.40. Fence wire of every kind. Also a complete line of BB galvanized telephone wire No. 12, \$1.85 per 100 lbs. No. 14, \$3.10 per apparatus.

## FILL OUT THIS COUPON.

I Saw Your Page Advertisement in Michigan Farmer 3-10

I am interested in the following items:-

Send Me Your Large Illustrated Catalog. My Name..... Town..... 

County..... State.....

### **OUR MAMMOTH FREE CATALOG**

genuine wrecking prices. It contains 500 pages profusely illustrated, and is in fact a demonstration of what the CHICAGO HOUSE WRECKING CO, stands for as a bargain center. It's such a book as every buyer of merchandise must have in his or her possession. It will save you money every day you buy goods. It's a pace maker in the bargain world. It shows what vast lines of merchandise are secured by us at Sheriffs', Receivers' and Manufacturers' Sales. It costs \$1.00 to produce each one of these catalogs. We send it to you absolutely without charge of any kind and without any obligation. It contains a description of our vast stock of Furniture, Household Goods, Office Fixtures, etc. Fill in the coupon shown elsewhere in this advertisement and tell us what line of merchandise interests you most and we will furnish you with the additional information concerning the material you need. Write today.



#### 9x12 Ft. SMYRNA RUGS. \$6.00.

9x12 ft. Smyrna Rugs \$6.00, extensive variety of beautiful patterns, oriental or floral designs, rich color combinations. These rugs are reversible and may be used on either side, thus giving you the service of two floor coverings for the price of one. These rugs are brand new and perfect. We also have large stocks of Royal Wilton, Axminster and Brussels Rugs.



LINOLEUM—Lasts five times as long as olicloth. Brand new at 29c per sq. yd. Absolutely perfect, no cracked er soiled pieces in entire lot. Hundreds of beautiful patterns in rich colors, consisting of beautiful tile and floral designs. See our Catalog for illustrations in colors.

CO., IRON Sts. CHICAGO CHICAGO HOUSE WRECKING