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MILTON KELLY .....

WATERBURY..... Business Manag

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DETROIT, APRIL 19, 1919



### CURRENT COMMENT

The Victory Liberty Loan

federal income taxes.

strongly to the average man as was short time ago we were mighty ignor- to the women of Michigan who exertaxation the government needs our sav-

quickly over-subscribed.

Develop-

bage, cauliflower, carrot, kale, parsley, seed to distributing it to the trade. pepper, spinach, beet and turnip seed, alfalfa seed.

Sweden can recover from the effects tical results. of the war; besides seed purchased from these countries is likely to be that which accumulated during the period since 1914.

to the public on April Mexico and Arizona have demonstrat- years been their customers. 21. This issue, the terms of which ed the fact that they can produce Ber-

beginning next Monday, has been fixed Today we are in a position to supply at the tables and all were highly pleasat four and one-half billion, as com- our home demands for carrot, beet and ed and edified with the entire affair. pared with six billion for the last Lib- parsley seed. California, with her pe. The execution of the program brought erty Loan. The issue will be in the culiar climate contributing these seeds out in bold relief the wonderful inform of short-term notes bearing four to our supply. It formerly required crease, not only in volume and importand three-fourths per cent interest and two years to produce the seed, as these ance of advertising, but also the equalmaturing in four years, with the treas- plants do not flower the first season; ly increased moral standard and charury reserving the privilege of redeem- but American climate and ingenuity acter of it, to both elements of which ing the notes in three years. While have shortened the time naturally re- the firm of N. W. Ayer & Son have unknown as a partially tax-exempt issue quired to produce seed by playing a doubtedly contributed more during the these notes will be practically tax ex- joke on "mother nature." The roots past fifty years than any other concern empt for the small investor. They are are harvested and shipped to Cuba and in America. They fully deserve our wholly exempt from state and local Porto Rico for winter growing: We are Wishes for continued prosperity. taxation, excepting estate and inherit- also producing such seeds as celery, ance taxes, and from normal rates of okra, parsley and collards for ourselves without any difficulty.

Now that the war is over and our Those who pooh-pooh at scientific boys are coming home, bearing the agriculture should familiarize thembanner of victory, the patriotic urge to selves with the development of seed buy liberty bonds may not appeal as production in America since 1914. A

The United States Department of along a ra

from Europe, who gave so much of our best-posted seedsmen predict lie sentiment is sometimes slow this spring. Clover, alfalfa and sweet the perpetuity of our democracy. clover seed growing is being developed A MONG the new rapidly in many agricultural regions, News of the Week problems the farmers meet our home requirements and have

producing sufficient seed for home and creating a heavy demand for speplanting the American farmer hitherto cial machinery. This means the growth depended upon foreign countries for and development of a big business all the bulk of his supply of radish, cab- along the line from the growing of the

Another phase of this great seedand a large portion of his clover and producing business is the fact that it is opening up a new field for high-class Before the war we got most of our agricultural students who are seeking radish seed from Germany, France and a business where they can match their England. Now the radish seed indus- brains and scientific training against try promises to become a profitable one the land and capital of men who can in California and several of the north see future profits in a big, paying busiern counties of Michigan. Turnip, cab- ness. The great need at the present bage and kale seed production is be- time is for men capable of directing ginning to develop in several favored and training the class of labor qualisections. At the present time we can fied to develop this specialized type of
gain control of the turnip seed business before Holland, Denmark and able as soon as it can be shown pracness before Holland, Denmark and able as soon as it can be shown prac-

A Golden

THE well known advertising agency of N. W. Ayer &

popular war loan, of spinach seed has added another a formal dinner, with appropriate which will be known profitable specialty to the list of crops speeches, reminiscences and music, the as the Victory Liberty produced in California and several dis- managers of the leading publications Loan, will be offered tricts along the Atlantic Coast. New and advertisers who have for many

It was conceived and executed along have just been announced, is consid-muda onion seed for the farmers of the broad gauge lines and carefully erably smaller than was anticipated by southern Texas. Formerly the onion thought out systems that have always most financial observers. The amount growers of this district annually immarked the business management of of the issue for which subscriptions ported more than 75,000 pounds of this this largest concern in their line in the will be asked in the three weeks' drive valuable seed from the Canary Islands. world. Over one thousand guests sat

> The Verdict of the Voters

THE verdict of the voters at the recent general election is a credit to the entire electorate of the state and particularly

the case when the conflict was on and ant of our domestic seed producing re- cised the elective franchise for the our boys were in the thick of the bat- sources and possibilities. No effort had first time. The adoption of the good tle. But preparations for the continua- been made to develop or to coordinate roads bonding amendment to the state ings to help pay it. Nor will the ben- Agriculture has rendered high-class examples indicate that the people of efit accrue to the nation alone, since service in gathering information and Michigan are solidly for advancement our savings will be invested in the best data and publishing it in the form of and opposed to retrogression, and that

a season when the average farmer's they are producing. The farmers who are the country's great bulwark. They law because it has no provision for its income is at low point, in this case need these seeds for planting know are a safe court of last resort in the enforcement. future income may be anticipated by where they can secure an ample sup- settlement of questions of public polarranging payment for the bonds on ply of thoroughly good seeds. At pres. icy Their ultimate judgment is genthe installment plan where necessary, ent we are substantially independent erally sound, and carries with it the If we feel apathetic in the matter, of other countries so far as the supply public sentiment essential to its adea talk with any of the boys just back of good seeds is concerned, and some quate enforcement. That strong pub-

their lives to the achievement of this that within a year Europe will be look- crystallize is also a matter for convictory will give us the proper point ing to America for seeds of many sorts. gratulation, rather than otherwise, as of view. The purchase of bonds to the In the matter of wheat, oats, rye and it is a safeguard against the catchy limit of our ability will be the result, barley we will help Europe with seed doctrine of extremists. The conservaand the Victory Liberty Loan will be necessary to plant thousands of acres tive intelligence of our people insures

Wednesday, April 9. problems the farmers and mave and market gardeners a general strike of workers.—A call is issued for the organization of the American Legion, to be composed of American Legion, to be composed of erican Legion, to be composed of American veterans of the world war.— The National Grange asks treasury deartment to fix the interest rate on the ictory Liberty Loan at four and onehalf per cent.—Spotted typhus is rag-ing in Ukraine, Poland, Serbia and several portions of western Russia.—A call is issued by the President for an industrial congress to consider plans to join the interests of capital, labor and the government in an effort vide an amicable program for the readjustment of industry.

Thursday, April 10. HE League of Nations commission expended \$5,200,000 in the purchase of land for repatriated soldiers.—Sweden is seeking a loan of \$25,000,000 in this country.—Six battalions of Japanese troops are sent to Korea to suppress disturbances which are spreading.— Evacuation of Allied troops from Odes Long Island, New York, has developed a big business in producing cabbage ed and several sections in the south are finding it profitable to produce kale their career on the evening of April

The fifth and last seed. The spectacular rise in the price 4th inst. The plan was to entertain at popular war loan, of spinach seed has added another a formal dinner, with appropriate Evacuation of Allied troops from Odes. Son, of Philadelphia, sa is officially confirmed.—Southern farmers have started a movement to have the government remove the cotton embargo.—New York senate passible to produce kale their career on the evening of April of the produce the fifth anniversary of the government remove the cotton embargo.—New York senate passible to produce kale their career on the evening of April of April of the produce the fifth anniversary of the government remove the cotton embargo.—New York senate passible to produce kale their career on the evening of April of Ap

Friday, April 11. THE peace delegates adopt resolution providing that the Monroe doctrine is not to be affected by the provisions of the covenant.—Washington officials are eneavoring to learn the extent of the mutiny of American soldiers in northern Russia.—The Bavarian Soviet regime at Munich reestablishes diplomatic relations with the HE peace delegates adopt resolutablishes diplomatic relations with the Bolshevist government at Moscow.—
Neutral nations are seeking to float a
billion dollar loan in Germany.—American and Japanese financiers are organizing a new steamship corporation.
—Officials at Washington deny the report that a secret treaty exists be-tween the United States and China.— Nearly two thousand troops of the 85th Division arrive in New York.—Quebec votes in favor of licensing the sale of wine and beer.

Saturday, April 12. IT is predicted that the German delegates will be asked to sign the peace treaty between April 26 and May 1.—Belgium and France protest against the selection of Geneva as the seat of government of the League of Nations.—President Wilson offers a seat of government of the League of Nations.—President Wilson offers a solution to the Adriatic question.—The chancellor of Germany declares that country must oust the Soviets or face doom.—The General Motors corpora-tion approves a profit-sharing plan for its employes.—A credit of \$20,000,000 is granted Great Britain by the United States government.—A so-called labor States government.—A so-called labor political party in session at Springfield, Illinois, endorses the government of the Soviets in Russia.

the cost of maintaining our boys at the into the development of this branch of all the people of the state, and the reference of bringing them back and despective which is adding many military in the mobilizing them must be paid, and in lions of dollars to the incomes of our ment by a very decisive vote is equally addition to all that can be raised by farmers. Sunday, April 13. government of Russia stands ready to stop the world revolt campaign if she is recognized and the allies will send goods to the nation.—Bolshevist prop-aganda is held responsible for the trouour savings will be invested in the best data and publishing it in the form of and opposed to retrogression, against a new responsible for the trousecurity in the world, bearing an attractive rate of interest, when the tax the farmers who produce seeds are by the intelligent use of democracy's angel.—Michigan troops to the number of 1,972 reach New York harbor,—President Wilson is being urged by the While the victory bonds are offered at and probable demand for the seeds.

The intelligent voters of America weets' to invalidate the war-time dry law houses it has no provision for its law.

> Monday, April 14. M ANY Bavarian towns are returning to the old alliance as the Soviet organization at Munich dwindles.—In two days' rioting in Egypt, (Continued on page 646).

DEVOTED TO MICHIGAN

VOLUME CLII.



A Practical Journal for the Rural Family

QUALITY RELIABILITY SERVICE

NUMBER SIXTEEN

# High Farming on a Big Scale

have been planning for several years, but which was shelved during the world war, is about to be revived and will eventually bring into cultivation thouands of acres of worthless land. .The big problem is one of drainage and embraces some fourteen thousand square miles, or the entire natural district of the Saginaw Valley. This district extends from the highlands of Gladwin county, which form the northern rim of the Saginaw drainage basin to the southern rim down in Genesee county and around through Clinton county, as its western limits, to Saginaw Bay. The problem arises because waters that are made to drain from farm lands in all this area must go somewhere. The Creator made the waters of this region in the beginning to flow down and out through the mouth of the Saginaw river, and they have flowed so ever since. The best that engineers of this day can do is to assist nature in doing her work in an orderly manner.

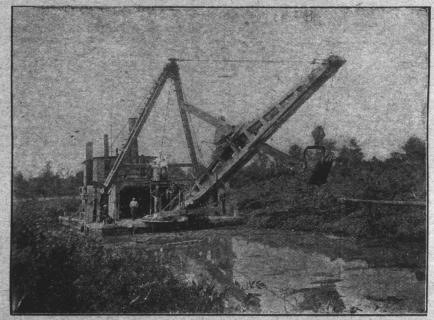
Most of the present drainage troubles have arisen over faulty methods of helping nature. The common method consists of running water off one man's land on to some other man's land, and leaving it to him to pass it

but it will flow more orderly and with net annual return on the large invest- cultural land drainage above. a minimum of destruction.

The Big Prairie Farm.

GREAT engineering project up of How Dikes, Ditches, Dredges and Drains them. The spring freshets which overon which government engineers A Story of How Dikes, Ditches, Dredges and Drains them. The spring freshets which overon which government engineers Have Transformed a Useless Swamp Into the Best Farm in the Saginaw Valley.

By James C. Mills



ment is said to exceed twelve per cent.

There are one hundred thousand

tions of a deluge. But despite this de- Farm enterprise makes the whole of the Flint and Shiawassee rivers. When Michigan's biggest drainage terrent fact is the fact that the Prairie broad scheme feasible, and the require-

Conditions in the Early Days.

The biggest and most successful rec- acres more of the same rich alluvial naw settlers and farmers that the soil tical efforts at farming on a large lamation project ever attempted in land continguous to the Saginaw river, of the prairie marshes was of exceed- scale were fairly successful, but the Michigan, or in any of the central which may be reclaimed and made into ing fertility, and would undoubtedly difficulties were many and the expense states, is the Prairie Farm in Saginaw profitable farms. But the reclamation produce wonderful crops, nothing was great, and there was more or less troucounty. This project points the way to must be made on a large scale and it done in those early days to reclaim

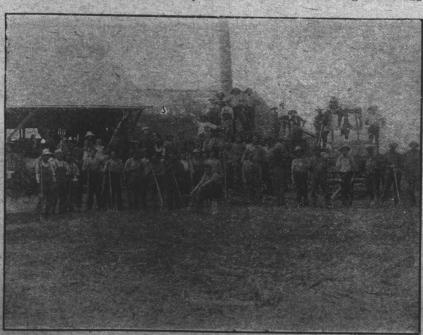
flowed the marshes to a depth of ten to fifteen feet, leaving quantities of mud and debris on the land, were the great obstacle to improvements. There was still a great acreage of wild government lands on higher ground subject to natural drainage, offered at a low price, and there was no incentive to experiment with the muck lands which lay only three or four feet above the normal level of Lake Huron. Northeasters from Georgian Bay often piled the sluggish waters of the river back upon the marsh, a dingy scum on the trunks of trees revealing where the floods had risen head high. It was evidently not a proposition to be undertaken by the individual farmer, as only by extensive work on a large scale was there hope that reclamation of the marshes could be accomplished. Time and development of the farming lands were required to make a project of this nature seem feasible to capitalists, and until that point was reached little could be expected of any plans for reclamation.

Beginning of Reclamation.

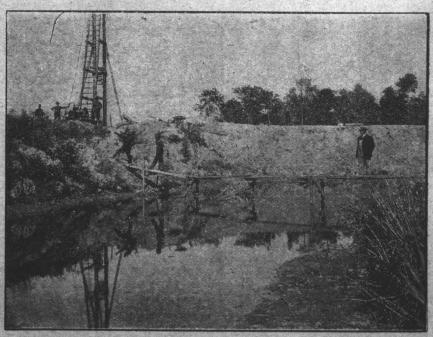
It was late in the eighteen-eighties that the first efforts were made to reclaim muck lands in Saginaw county. Harlan P. Smith, a prominent dealer in choice farming lands, had delved inalong to somebody else. Unfortunate- success in enterprises of this kind, and awaits the concerted aid of a compre- to the subject quite thoroughly and acly, it reaches the flood area of the low- at the same time it adds to the drain- hensive plan of government engineers, quired title to considerable acreage er valley and the bay at a time of high age problem of the district as a whole. This in the main will provide for at about seventeen miles south of the city water, and takes toll as it goes. Float- The Prairie Farm, in fact, is a gigantic least one double dike across the set- of Saginaw. Associated with him were ing houses, barns and fragments of example of the existing drainage meth-tling basin of the rivers to encircle in Chas. H. Camp and George B. Brooks, bridges, mingled with forest debris and od-to unload the water on the other the river bed above Saginaw, a channel who composed a well-known law firm, fluid mud attest the heedlessness of fellow. It is not difficult to realize to impound the waters which flow and together added to the holdings althe method. The property damage that not many ten thousand-acre tracts down from the uplands and to receive ready acquired until they owned about amounts to hundreds of thousands of could be pumped dry in the settling the pumpage from large sections in the ten thousand acres. This large area dollars annually; and it is this waste basin of the Saginaw Valley without flood area, as they are diked and de- in one parcel was situated in Albee and that the government engineers are try- creating flood conditions of the propor- veloped. The success of the Prairie St. Charles townships, south and east

These progressive men then proceedand reclamation problem is worked out Farm owners have diked and drained ments of the entire drainage area seem ed to cut a large ditch from the northto its conclusion, just as much water ten thousand acres of rich muck land, to demand it as one link in the chain ern part of the prairie land to the Flint will flow down to Saginaw Bay as now, and have made the operations pay. The of outlet channel for increasing agri-river, a distance of about two miles, enclosing three or four hundred acres, and plowed and prepared the ground Although it was well known to Sagi- for seeding. The results of their prac-

(Continued on page 636).

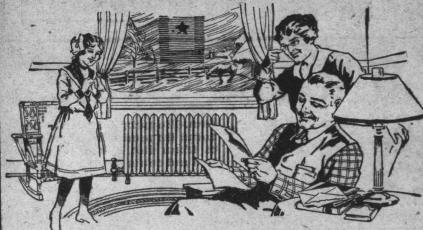


Farm Hands at Mint Distillery on Prairie Farm.



Main Canal and Dike at Site of Pumping Station.

# Welcome him with IDEAL HEATING!

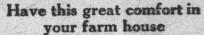


he expects to be home soon to enjoy all future winters in comfort with an IDEAL Boiler and AMERICAN Radiators in the old home

Fit up the farm home with IDEAL-AMERICAN heating so that the young man will want to stay on the land. He has fought hard for us and deserves to enjoy every comfort that he has missed so much in Europe.

# AN & DEAL room throughout severest winter.

An IDEAL Boiler and AMERICAN Radiators can be easily and quickly installed in your farm house without disturbing your present heating arrangements. You will then have a heating outfit that will last longer than the house will stand and give daily, economical, and cleanly service.



You will say that IDEAL heating is the greatest improvement and necessity that you can put on your farm for it gives you the needed comfort and enjoyment during the long season of zero, chilly, and

damp weather.

It is not absolutely necessary to have a cellar or running water in order to operate an IDEAL heating outfit. There is no need to burn high priced fuel because IDEAL Boilers burn any local fuel with great economy and development of heat.

Send for our Free Heating Book We want you to have a copy of "Ideal Heating." It goes into the subject very completely and tells you things you ought to know about heating your home. Puts you under no obligation to buy.

ing on severity of Every weather. nce of fuel is made to yield utmost results.

IDEAL Hot Water Supply Boilers will supply plenty of warm water for home and atock at small cost of few dollars for fuel for season. Temperature kept

Puts June in every

room throughout

by all deal-No exclusive AMERICAN RADIATOR COMPANY Department F-3



IDEAL Boilers

will supply ample heat on one charg-

ing of coal for 8 to

24 hours, depend-

WE SANITARY MANUFACTURING CO. 7404 6th St. Detroit, Mich.

CARLOADS -CORN-WHEAT-RYE BATTLE CREEK, MICHIGAN

Seed Corn for sale. White dent, large ear a heavy cropper and very early. on bottom land the past season June, 16th an ed before frost stuck it. \$3.50 bushel.



Kirstin one Stump Puller

Amazing Offer!

WRITE!

. J. KIRSTIN CO., 320 Lad St., Escar



# Agricultural News

INSURANCE AID FOR FARM LOAN BANKS.

fire insurance, business has been re- ril 1. moved by the formation of a private company to perform the functions which the board claimed were not being performed by existing insurance ganization have not been made public preceding five years 44,547,000 bushels. but it is understood that the company will have the cooperation of a number of the leading fire insurance companies of the country in its efforts to provide adequate protection for farm property.

The Federal Farm Loan Board in its annual report submitted to congress recently recommended that the Federal Farm Loan Banks be empowered to write fire insurance. The report declared that owing to the remoteness of some of the property and to other handicaps under which farm property labored it was impossible to get insurance to protect the property on which the banks were asked to make loans. On this account it was said large numbers of farmers were being deprived of the benefits of the system, and it was recommended that this be rectified by permitting the banks to insure such risk in a mutual insurance company.

Difficulty in guaranteeing the titles of the properties on which loans were made was also reported, and a plan to remedy this defect was also suggested. The General Agencies, Inc., of Baltimore, which is the name of the company that has arranged with fire insurance companies to cover the risks complained of, has arranged with several surety and title companies to provide bark by breaking and is now worth a guarantee that will be satisfactory to twenty-five cents a pound. the Federal Reserve Board.

Plans for carrying the new arrange-

The details of the plan have not been moisture upon the milkweed plants. worked out. It is recognized that the proposal involves underwriting diffiural opposition in most quarters to govthe plan.

In the event it is put into operation Loan Banks.

### FEDERAL CROP REPORT.

THE Crop Reporting Board of the Bureau of Crop Estimates, United States Department of Agriculture, makes the following estimates from re-

estimated production in 1918, and 412, crop of vegetables is harvested in the 901,000 in 1917.

The average condition of rye on April 1 was 90.6 per cent of a normal, against 85.8 on April 1, 1918, 86.0 on HE necessity for the entry of the April 1, 1917, and 88.6, the average Federal Farm Loan Banks into the condition for the past ten years on Ap-

The condition of rye forecasts a production of approximately 101,000,000 bushels; last year's estimated production was 89,103,000 bushels; the 1917 companies. The details of the new or crop 62,933,000 and the average of the

### GROWING IMITATION SILK AND WOOL IN MICHIGAN.

T seems now that the much maligned milkweed plant is at last coming into its own. Doctor Sidney Smith Boyce, who is developing a fiber farm at Saginaw Michigan, makes report that from a variety of the asclepias plants known as asclepias incarnata, or swamp milkweed, he is producing a fiber of fineness and character hard to be distinguished from silk. While from the varieties known as asclepias cornutus he is producing another style of fine fiber not easily distinguished from fine merino wool.

The plant from which the imitation silk fiber is obtained is a variety of the swamp milkweed style of plants, is perennial and grows much the best in soils too low and wet to grow ordinary farm crops.

When once planted this plant requires but little further attention beyond gathering the stalks in October. It grows five to seven feet and yields two to three tons of stalks per acre. The raw fiber is obtained from the

To grow this silk fiber plant a dyke may be run across any piece of overment into effect have been on foot for wet land and the lower part planted to several weeks, and it is reported that silkweed plants and the dryer part to the proposal has the support of some ordinary farm crops and these latter of the leading officials at Washington, kept dry by pumping off the excess

The large variety of wild milkweeds persistently clothing the roadsides and culties such as the insurance compa- bone-dry hillsides and pronounced noxnies are not as a rule inclined to at- ious weeds, is so familiar to almost tack, but in view of the public nature everyone that it needs but little deof the demand, and because of the nat- scribing. This variety of plants is also perennial and can be gathered in ernment insurance in any form, it is abundance and used to obtain the imiexpected that the companies will make tation wool fiber, or for paper stock, an extra effort to make a success of but until taken in charge and domesticated the crop will be quite irregular, both in amount and character, but unit is expected to entirely eliminate the der cultivation and its instincts recogdemand for self-insurance by the Farm nized and cared for the yield is quite as great as that of the swamp variety. This plant is gathered before the seed pods open and decerticated while green.

### DON'T FORGET THE GARDEN.

ports of its correspondents and agents: D ON'T forget to include the home
The average condition of winter D garden as one of your main lines garden as one of your main lines wheat on April 1 was 99.8 per cent of of work the coming season. If you a normal, against 78.6 on April 1, 1918, have not already made your plans for 63.4 on April 1, 1917, and 82.3, the aver- a garden do so at once. Select, ferage condition for the past ten years tilize, and prepare your ground as soon on April 1. There was an increase in as possible. The seed supply should condition from December 1, 1918, to also be looked after and ordered at the April 1, 1919, of 1.2 points, as compared earliest possible date, in order to prewith an average decline in the past vent disappointments and delays in ten years of 5.9 points between those planting. See that the garden includes dates. Upon the assumption of aver- a good variety of vegetables, and also age abandonment of acreage and aver- plant it so that it will continue to age influences on the crop to harvest, work for you and supply your table condition April 1 forecasts a produc- with fresh vegetables throughout the tion of about 837,000,000 bushels, which entire summer and fall. Too many compares with 558,449,000 bushels, the gardens are abandoned after the first



# Plan for Selling Wool

How Illinois Farmers Will Do It

WOOL growers in Illinois will be the agency which handles the wool. given a chance to market their follow a uniform plan in selling the as his neighbor with a similar grade. spring wool crop at a meeting held at In this way each man is paid a uninite plans for carrying out the work scores. When the wool is sold a comwill be drafted by D. O. Thompson, sec- plete statement will be returned to retary of Illinois Agricultural Associa- each producer, showing the weights, tion, and Prof. W. C. Coffey, Sheep grades and selling price of his wool, Husbandry Department, University of and all other details. If he does not Illinois. After the plans have been receive as much for his wool as his finished they will be submitted to a neighbor he will know the reason, and committee of five for approval.

Copies of the final plan will be sent better grade of wool. to all of the farm bureaus in Illinois, J. Howard Miner, county agent of and through these organizations the Henderson county, Ill., says: "Ninetysheepmen will be allowed to concen- five per cent of the wool growers in trate the marketing of their wool. The my county will market their wool crop practice has always been for buyers through the farm bureaus again this to go into the country and buy from year. Forty-six consigned over 20,000 the sheep owner, but many sheepmen pounds of wool through our bureau last claim this practice has been abused, year. I sent out letters offering to Few men have a thorough understand- handle their wool for members of the ing of the various commercial grades bureau and offered the same chance to of wool and they sell their season's others who were not members. I went clip without grading it and for less there in April practically a stranger, than it is worth in many instances.

fered. The primary object will be wool was sold a draft for \$12,001 came that of concentrating the marketing back to me for the whole consignment, of the wool to get more for it, and, and then each man was paid his share. second, there will be an educational We are going to do the same thing this campaign carried along with it.

Plans are now being worked out to county." pool the wool at some central point in the county designated by the farm bureau officials or a similar organiza- gates at the meeting were taken to tion. Here it will be labeled and the National Wool Warehouse and charge of men acting as agencies for biles. house and Storage Company, offered to the plant Ezra Booth, who is in charge handle the wool for two and a half of the warehouse, gave a practical demcents a pound. In this case the wool onstration in wool grading. As he sort the expenses, including freight, stor- clothing and fine staple. These are age, grading of the fleeces, loading and the rough commercial grades. unloading and marketing. There will within a period of four months.

tional charge of fifteen cents a month we rarely have one of our grades queson every bag. Each bag weighs three tioned." hundred and fifty pounds. Seventywill be paid on the advanced sum to

The advantages offered in this methspring clip of wool on the coop- od of marketing are that each wool erative plan. County agents from lead- producer's clip will be graded and he ing sheep raising sections agreed to will receive the same for his wool the Stock Yard Inn at Chicago. Defi- form price for the grade his wool this will stimulate the growth of a

and those men brought their wool in Through the cooperative plan there and didn't even ask for a receipt when will be two principal advantages of- it was loaded on the car. When the year with practically all of the men Two and a Half Cents for Handling. who have any wool to market in that

Visit Wool Storehouse.

About two o'clock all of the deleshipped to a central storehouse in Storage Company's plant in automo-This plant has a capacity of the wool growers, John D. Holliway, from 10,000,000 to 15,000,000 pounds of president of the National Wool Ware- wool. While making a tour through would be concentrated at a central ed out the various grades, dropping point in each county and consigned to each grade into separate baskets, he the warehouse in Chicago. The two explained to the men what constituted and a half cents a pound covers all of quarter, one-half, three-eighths, half-

"Do the woolen mills take these be no other charges if the wool is sold rough commercial grades as they are on the other hand, if the agencies asked. Mr. Holliway replied: "We send deem it wise to hold the wool over a small sample taken from one of these four months there will be an addi- big sacks, and when the wool is sold

Mr. Holliway offers to furnish paper five per cent will be advanced to each twine to the farm bureaus at wholeproducer at the time he delivers the sale price, which is now twenty-six wool, and the balance paid when the cents a pound. He suggested that wool is sold. Seven per cent interest they all use the same kind of twine (Continued on page 625).



# Who Manages The Standard Oil Company?

(Indiana)

SEVEN men, who have demon-strated unusual ability in their particular branch of the business, have been entrusted with the task and responsibilities of management.

Mr. Robert W. Stewart Chairman of the Board

Mr. William M. Burton President

Mr. Henry S. Morton Vice-President

Mr. George W. Stahl Secretary-Treasurer

Mr. Seth C. Drake General Manager-Sales

Mr. William E. Warwick General Manager-Manufacturing

Mr. Beaumont Parks General Superintendent

are now at the head of the Company's affairs. These men, all residents of Chicago, and all actively engaged in this business, and no other, are the Board of Directors.

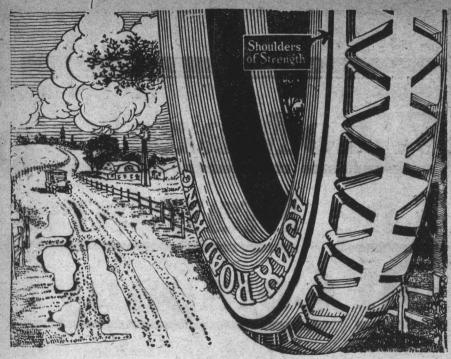
They are responsible to the 4623 stockholders, and to the public, for the policies governing the Company's activities.

Each Director is a highly trained specialist, who, in addition to being master of his own particular specialty, has a profound knowledge of the oil business generally.

This complete understanding of every phase of the business, from the production of crude oil to the intricate problem of distribution, is the reason for the superlative service given by the Standard Oil Company.

Standard Oil Company

910 S. Michigan Avenue, Chicago, Ill.



# Mileage!

SURELY you've noticed the ever-increasing number of Ajax Tires in use on your own roads. More and more the farmer who checks up his mileage turns to Ajax. He knows that the greater mileage we have built into the Ajax Tires, enables him to get greater mileage out of them.

### *Ajan* Road King

More mileage is actually built into the Ajax Road King by Ajax Shoulders of Strength-those buttresses of rubber that brace and re-inforce the tread. They are an exclusive Ajax feature -a scientific means of putting more rubber where it should be more tread on the road.

Added proof of Ajax superior service is shown in the fact that 9 world's records and 49 track records were smashed in 1918 by dirt track racers using Ajax Tires.

Remember this -dirt tracks are merely country roads fenced in. Ajax Tires will win for you. \ Use them.

Ajax Tires Are Guaranteed In Writing 5000 Miles

# AOAX TIRES

AJAX RUBBER COMPANY, Inc., NEW YORK

Factories: Trenton, N. J.

Branches in Leading Cities

A Size to Match

# Ensilage Cutters and Silo Fillers

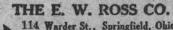
Fill your silo with Ross cut silage. It is cut clean,
not macerated. Every particle contains its own juices.
Ross cut silage is uniform from top to bottom of silo, not soggy
at the bottom and dried out on top.
There's a type and size of Ross for any
ngine—4 H. P. and up, cylinder or fly
heel construction. Each one cuts corn
lean. Ross Silo Fillers run with 300 R.
M. less speed—require one-fourth less
ower—and are absolutely safe and sure.
honest dependability.

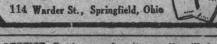
Your Power

Extra heavy knives, low speed six-fan blower, self conforming bearings, ball bearing end thrust adjustment and reversible cutting har. The Ross an ironclad guarantee.

Write For These Free Books

dairyman will pass up this chance. Simply tell us your needs. We mail these valuable books free. Many facts you should know, all explained. Get them—send a postcard—TODAY.





Please mention the Michigan Farmer Norton Parcha ser of poultry supplies will please mention to discount the Michigan Farmer Norton to advertisers.

| Intended for the Bloomingdale Farms Association as I have had no direct connection with this companished February 22, 1899. FRAZER MILLER.



# Latest Agricultural News

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Every thinking employer coincides with the view that the better the pay volumes of food stuffss for the army the better the service. The safety of and navy, the Aliles and Belgian relief millions of human beings depends upon railroad employes. They should receive the maximum rate of wage. They \$150,000,000 belongs to the government should receive the best treatment, that their work may be of maximum quality.

BUT-where and when is to be the end of this wage increase? What is to be the limit? How heavily can the government assess the ultimate consumer with safety? BUT-how are the railroads to stand the financial strain after government control ends? And who will pay the deficit? BUTwhat is to prevent organized labor in other industries from following the example of the railroad men? And what is to be the end of it all? Sooner or later a halt must be called somewhere, in Europe, when it is expected the and the sooner the halt comes the better for the country at large, for owners plies will be passed and the wholesale of railroad securities, for labor itself, which must realize that it cannot eat the pudding and still retain possession.

WAGES OF TRAIN MEN.

Many complaints are heard regarding the inferior quality of many of the lambs arriving on the Chicago market from near-by feeding stations. Strange to say, at a time when prime lambs are selling at enormously high prices, of lambs are received showing

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are largely at a range of \$11 to \$14 per



# Read—Think—Act!

THE world-wide demand for more food is bringing wonderful prosperity to the wheat and cattle raisers of Western Canada. More than half a million former United States farmers, who have settled in this "Last West," have found happiness and independence in this favored region. "Selected" farms along the lines of the Canadian National Railways in the beart of the richest wheat and cattle country in North America can be bought for \$15 to \$40 per acre on long time easy payment terms. Mail Free Coupon below for the greatest farm offer ever made.

# Own a Selected Farm in Western Canada

Make Bigger Profits!

HE most wonderful opportunity in the world today for Business Farmers who are seeking greater rewards for their industry is in Western Canada along the lines of the Canadian National Railways. In this marvelously fertile section, farming yields a big profit on the investment, because the land can be bought at low prices and wheat and cattle raisers operate under ideal conditions with a big, sure demand for their products at a high level of prices.

### "Selected" Farms

When you buy a "selected" farm in West-ern Canada along the lines of the Canadian National Railways, you get the benefit of spe-cial knowledge of farming conditions acquired through years of close study by ex-perts representing over 14,000 miles of railway, whose impartial advice and practical as-

way, whose impartial advice and practical assistance are of great value to settlers and farm buyers and entirely free of cost to them.

You do not purchase merely "a farm" but in fact and reality a carefully Selected Farm, chosen to meet your needs from the cream of the richest wheat farming and cattle raising country on the North American Continent.

### You Will Find a Friendly Welcome in Western Canada

The boundary line between the United States and Western Canada is purely imaginary. When you settle on a "Selected" Farm along the lines of the Canadian National Railways, you will find yourself surrounded by the same living conditions that you are used to—the same friendly neighbors, speaking your language and thinking your thoughts—helpful friends, eager to welcome and aid you to achieve the greater prosperity and happiness that await you in Western Canada.

Your harvests will be greatly increased—your animals will thrive better—the cost of cattle raising will be less—your profits greater—on your Selected Farm in Western Canada. You will enjoy every benefit that you formerly enjoyed and many advantages that you could not get from higher priced land elsewhere. along the lines of the Canadian National Rail-

elsewhere.

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Stock raising in Western Canada is extremely profitable, as conditions are ideal for the purpose. Probably in all the world no section can match the great advantages offered by this region for the highly profitable business of raising beef and dairy cattle. Cattle, horses, hogs and sheep thrive wonderfully well on the prairie grasses, which cure standing and make fine hay in many sections along the lines of the Canadian National Rail-Cattle and horses range the prairies during

most of the winter, requiring only natural shelter, frequently bringing the highest prices without expense for grain

### Fine Schools Located in All Farming Districts

The school system of Western Canada offers splendid advantages to settlers along the lines of the Canadian National Railways.

It requires only four families with a minimum of 12 children to secure a primary school, and the government is active in building schools in farming districts and assisting them by money grants.

In Saskatchewan, for example, during the nine years from 1906 to 1915, 2,335 schools were established—an average of one for each school day! There are now nearly 4,000 school districts in the Province of Saskatchewan alone and this favorable condition is also substantially true of Manitoba, Alberta

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Send for full particulars of railway rates, and complete information about this wonderful Selected Farm offer, including "just the things you want to know" about Western Canada and its big-money-making opportunities

All the facts will be furnished free on request and without obligation to you.

Mail Coupon or Write Today to

DEWITT FOSTER, Superintendent of Resources CANADIAN NATIONAL RAILWAYS

Dept. 3664, Marquette Building, Chicago

feeding. Cut Out and Mail This Free Coupon Superintendent Resources, Canadian National Railways, Dept. 3664, Marquette Bldg., Chicago Please send me free and without obligation to me, complete information on the items concerning Western Canada checked below: Opportunities for big profits in wheat. Big money-making from stock raising. Special Railway Rates for Home Seekers. Business and Industrial Opportunities Name ..... Town ..



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Ajax Tires Are Guaranteed In Writing 5000 Miles

# 40/4 TIRES

AJAX RUBBER COMPANY, Inc., NEW YORK

Factories: Trenton, N. J.

Branches in Leading Cities

A Size

# Ensilage Cutters and Silo Fillers

Fill your silo with Ross cut silage. It is cut clean,

not macerated. Every particle contains its own juices.

Ross cut silage is uniform from top to bottom of silo, not soggy at the bottom and dried out on top.

There's a type and size of Ross for any Reep a crew on the jump to rigine—4 H. P. and up, cylinder or fly-feed them. Won't break down, heel construction. Each one cuts corn lean. Ross Silo Fillers run with 300 R. the corn is fed. Thousands of happy ower—and are absolutely safe and sure. honest dependability. Your Power

ra heavy knives, low speed six-fan runs with a smooth, steady hum, fills your ower, self conforming bearings, ball silo in a steady stream, every machine bearing end thrust adjustment and backed by sixty-nine years' experience and reversible cutting bar. The Ross an ironelad guarantee.

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THE E. W. ROSS CO. 114 Warder St., Springfield, Ohio

Please mention the Michigan Farmer North Engels sers of poutry supplies will plea the mention of the Michigan Farmer North the Michigan Farmer North



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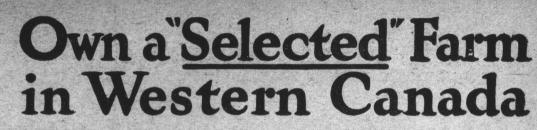
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Send for full particulars of railway rates, and complete information about this wonderful Selected Farm offer, including "just the things you want to know" about Western Canada and its big-money-making opportunities

All the facts will be furnished free on request and without obligation to you.

Mail Coupon or Write Today to

DEWITT FOSTER, Superintendent of Resources CANADIAN NATIONAL RAILWAYS

Dept. 3664, Marquette Building, Chicago

# feeding.

Cut Out and Mail DEWITT FOSTER Superintendent Resources, Canadian National Railways,

Please send me free and without obligation to me, complete informa-tion on the items concerning Western Canada checked below:

Opportunities for big profits in wheat. Big money-making from stock raising. Special Railway Rates for Home Seekers.

Business and Industrial Opportunities

# Some Tires "Climb"

ID you ever wonder why it is often so hard to "stay in the ruts" when driving over poor roads?

Usually you will find the reason in your tires. Many so-called non-skid treads tend to "climb" up the sides of ruts—the fancy bumps and ridges of rubber on the sides of the tread act like the climbers which telephone linemen strap to their legs

HORSE-SHOE TIRES have no such tendency. They are anti-climb as well as anti-skid. They run true and straight on rough roads -and noiselessly on paved streets.

This is just one of the reasons why experienced motorists, when buying

"Remember the Horse-Shoe Tread"

Guaranteed for 5,000 miles but gives more. See your local dealer or write to

Brown & Sehler. Grand Rapids, Mich.



# RSE-SHOE TIRES

# Pedigreed Seed Beans

Cheboygan Co-Operative Market Ass'n., ygan, Mich. Olof Nelson, Grower, Aloha, Mich

Potato Bags sold direct to the grower at wholesale prices.
LINCOLN BAG CO., Springfield, III.

# Farms and Farm Lands For Sale

Widow Owner Must Sell 515 Acres, 16 Cows and

pairs young horses, lot heifers, hogs, poultry, com-ete tools, wagons, &c., on improved road, near RR. wn. 215 acres dark loam tillage, 50-cow pasture, es-nated 1000 cords wood, 100,000 timber, 100 applestrees, and the state of the state of the state of the state of the great state of the kind of Bargains 19 states, copy free. STROUT ARM AGENCY, 814 B. O. Ford Bldg., Detroit.

### F-R-E-E

and whether you have any property that would hav to be sold before you could purchase land. Thes special bargain tracts are going fast. Write today SKIDMORE LAND CO., 33I Marinette, Wisconsin

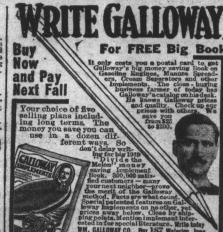
I Sell Farms Where biggest crops grow:fruit.grain.
J. D. S. HANSON, Hart, Mich.

Rich Michigan Farms. Low prices. Easy terms. STAFFELD BROTH ERS. 15 Merrill Building. Saginaw. Michigan

Wanted To hear from owner of farm or unim proved land for sale.

O. K. HAWLEY, Baldwin, Wisconsin

WANTED to hear from owner of good farm for sale State cash price, full particulars, D. F. Bush, Minneapolis, Minn.







# The Unity of Industries

HARLES M. SCHWAB, has been would at the same time be imbued establishment of unity in industries, to affairs. cooperate with finance, manufacturing, "One name stands out above all othforward to accomplishment."

act individually and accomplish real mous support. results. We must all learn to know that all of us are laborers, manual or way be dependent upon government mental, also that each of us is a capi- activities nor should it affect the patertalist governing the exchange of the nalistic attitude toward any class or product of individual 'efforts.

### Cooperation and Progress.

been able to call himself absolutely in. to the good of American industry. dependent of his fellow beings was perno one, but in modern life independence means something much more constructive. A better definition of our individual positions is that we are a nation of inter-dependents. Not one of a movement suggested which would do us can accomplish any result without the cooperation of others.

"If the term so thoroughly imbedded in our minds, capital and labor, could factional differences and all social rebe eliminated by this unity of action suggested and it could be definitely understood by each of us that capital without labor is a corpse, and that la. licity emanating from an organization bor without capital is a cripple, but such as is proposed could be brought that both of them working together about in the course of time, such a respelled progress for all, then we would sult would be without precedent in the begin to have the unity of thought and action so much to be desired.

is for business to take the public into not be thought of as impossible. its confidence and get them thinking and acting on those things which are NEW YORK DAIRY SHOW ON THIS good for business on the theory and good sense that whatever is good for business is good for the people as a THE Second National Milk and whole, and that what is good for the

bedded in each of our minds.

### A Prosperity Campaign.

sighted business who have the support gains at present prices. of thinkers in other phases of Ameriarticles on the subject over the slogan, the milk supply of the city. 'Let's Go.'

thinking doing and going person, no business, no nation ever got of considerable difficulty. anywhere by waiting on someone else. something.

vision and executive ability, and who in the subject.

proposed as the head of an or- with the idea that labor must be perganization having for its aim the mitted to take its place in business

merchandising, labor and agriculture in ers-that of Charles M. Schwab. If placing American business on a stable Mr. Schwab can be persuaded to accept and thorough-going basis. Mr. Schwab leadership in a movement of this kind was suggested for such leadership by and could be surrounded with one lead-Roy G. Owens, of the Lakewood Engi- er selected for finance, one for labor, neering Company, of Cleveland, who one for manufacturing, one for mersaid: "The time has come when all chandising and one for agriculture, and phases of American life must be weld- these men could sit together for a coned together so that we will all march ference on the subject, out of which could come an invitation over their "To make this possible," continued names to American industry to attend Mr. Owens, "finance, manufacturing, a conference of industry for the purmerchandising, labor and agriculture pose of a permanent organization, such must join hands. Not one of them can a movement would have almost unani-

"The plans proposed should in no phase of people, but it might well seek the cooperation of government depart-"The only man who might ever have ments who are devoting their efforts

"The European situation which haps the Cave man, who depended on brought about the great war; the situations there as they have developed since the armistice was signed; the lack of coordination in our own country, point clearly to the necessity for constructive work.

"It is true after all that all political situations, all governmental activities, quirements are predicated on commerce," continued Mr. Owens.

"If unity of opinion through pubhistory of the world.

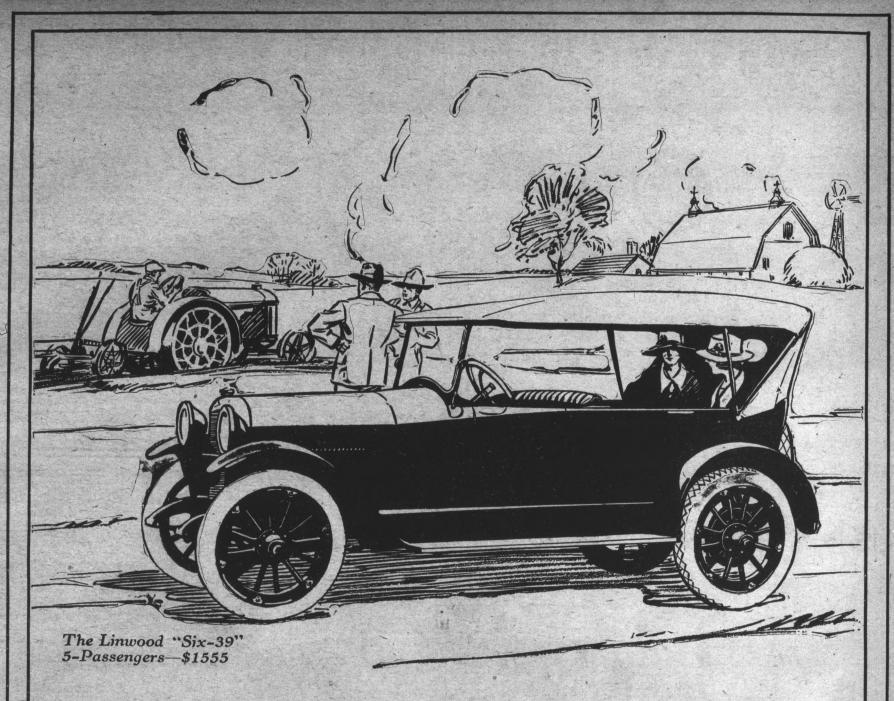
"The magnitude of such an under-"The only way for business to have taking is recognized, nevertheless, the people know what is good for business object to be attained is one which need

# MONTH.

Dairy Exposition is to be held the people as a whole is good for business. last week in April, in the Seventy-first "Many articles have been written on Regiment Armory, in New York City. this subject, but the story must be re- A big effort is being made to demonpeated over and over again if the strate the food value of milk and to thought of unity for individual and educate the mothers of young children public progress is to be thoroughly im- in the necessity for its use even at the present price. Data on milk production will be featured also, in order to "The national prosperity campaign, let the consumer know that the dairywhich is the conception of some far- man is not luxuriating in ill-gotten

Several eastern states are sending can life, have undertaken to further dairy exhibits. The main stress in the the thoughts expressed in the many exposition will, of course, be laid on is now consuming about fifteen per "If all take up this slogan, 'Let's Go' cent less than normal, and it is hoped -let's put it across-get everybody to to restore consumption to the usual by this type of publicity. As acting without waiting for someone the city is paying sixteen cents a quart else, and nothing can stop America. No for milk now, this appears to be a task

Prizes for milk and various milk pro-The successful one is the one who does ducts will be given. Dishes prepared with milk, such as custard pie, rice "This thinking has suggested the ne- pudding and other similar preparacessity of a still broader organization, tions, will be given prizes. New milk in which would be associated together drinks will be encouraged. A "Milk finance, manufacturing, merchandis- and Baby Week" will be carried on by ing and labor, who would be brought the city department of health at the together in common counsel under a same time as the exposition, and is exman who is endowed with commercial pected to add to the popular interest



# PAIGE Ghe Most Beautiful Car in America

# Pay Enough to Secure Satisfaction

There are just two spendthrifts—the man who spends too much and the man who spends too little. Both are grossly.extravagant and both are deluded by the same error—a false sense of values.

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The man who over-spends can probably afford it, whereas the man who under-spends cannot. For, after all, the seventy-five dollar suit of clothes is a perfectly tailored all-wool garment and worth at least half of its price.

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# An Even Stand of Corn

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and that stays adjusted until the job is done. Consider these planters feature by feature.

They plant corn accurately whether used with edge drop, flat drop, or full hill drop plates; whether the corn is checked or drilled. The drop clutch can be changed, while the planter is working, to drop 2, 3, or 4 kernels to a hill. The tongue is easily adjustable to the height of the horses. A handy foot drop lever makes head-row planting easy.

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the value

of Fish

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have had

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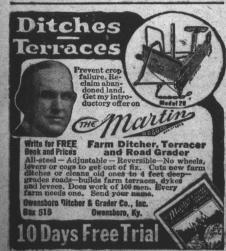
without. Tower's Fish Brand Reflex i

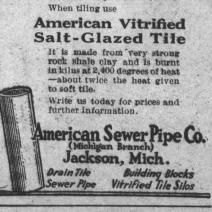
are now back on the job, ready for the boys as they come back, ready for everyone who knows the value of this real Service Coat when there's wet-weather work to be done.

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# Our Service Department

TOMATO DISEASE.

THE disease affecting your toma- make good pasture on this land. toes last year, was the trouble known as "Blossom End Rot." This is one of the so-called "physiological" diseases of the tomato and results from a break-down of the tissues of the plant. Excessive dyrness of soil and the opposite, excess of water, causes this disease. It has been produced experimentally by subjecting plants to extremes of conditions. When found in the greenhouse it usu-

of moisture, fertilizer, or of temperaperiods will require special effort to ologist, M. A. C.

### PASTURING RYE.

I have about twelve acres of rye that inoculate the seed. I have had to pasture and it is rather badly cut up. I thought about drilling it then go over it with the spike-tooth drags and seed, and then go over it again with the weeder. Do you think that would be all right? I would also be glid of educe or the followings. be glad of advice on the following: have several patches of swamp land. I am going to dig an open ditch to run off the water and I want to seed them for pasture. What would you seed them with to make cow pasture?

Barry Co.

G. T. H.

If this land contains a good per cent of clay I think it will be almost impossible to fill up the cattle tracks by rolling or with a harrow. My idea is that a roller would be as effective as a harrow, because the harrow makes little impression on clay land that has been packed during the winter. Then you can roll the land earlier than you can harrow it and still you must be careful and not roll when it is so soft that the horses will make further depressions in it. These tracks will gradually fill up of themselves and I think I would simply sow on the grass seed early before the freezing is over so that the action of frosts will cover the seed, and then as soon as I could I would run over the ground with a roll-

er and let it go at that. Draining Swamps for Pasture.

you drained the water all out of the swamps last fall, then if you had sown on a mixture of grass seed the action of the frosts in heaving the soil would have covered the grass seed. If you wait now until this spring and then drain them it will be difficult to cover the grass seed unless you can harrow the ground and probably it is not in the ground and probably it is not in condition to be harrowed. About the only way you can do is to drain them cording to the income of some more out as soon as possible and sow on the fortunate neighbor.

What can I do to prevent my tomatoes from rotting on the vines? The cover some of it so it will start and cover some of it so it will start and then next winter you can sow on grass seed so that it will be quite thoroughly spraying control this disease?

Van Buren Co.

H. R. G. cover some of it so it will start and viding there is no water on the surface.

A mixture of timothy, red-top, orchard grass and alsike clover, would

C. C. L.

### VARIETIES OF SOY BEANS.

We have been planting and using soy We have been planting and using soy beans in the ensilage corn for two years. The first year the variety was of a small vine growth kind and well podded and filled. But so low that the corn binder only got about half the vines and pods. Last year we planted a Mammoth variety, the Yellow Mammoth, and while they grew fine and tall and stood up fairly well there was no neds. They only got to the blos-When found in the greenhouse it usually is the result of keeping the plants too dry. Care in watering promptly does away with the bad condition.

It was noted last year that the tomatoes developing during the drought period showed the disease in excessive amount, but with the onset of rains a clean crop was set. Where gardeners can control the water supply by irrigation, they are able to prevent this trouble.

Certain varieties are more subject to the disease than others. Certain strains of Bonny Best have been notably resistant.

It is evident, therefore, that this disease can be controlled only by general measures which aim to prevent extremes in growing conditions, either of moisture, fertilizer, or of tempera-

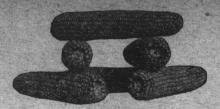
As a rule farmers in this latitude ture. A well-drained soil given fre- would find it more profitable to sow quent cultivation with plants of a good the early maturing varieties of soy variety will not be disappointing in a beans. Experiments indicate that the season of ordinary rainfall. Drought well-filled pods possess greater feeding value than the rank-growing vines; prevent loss.-G. H. Coons, Plant Path- besides they make a much better silage. The fact that the smaller varieties filled well on your farm indicates that inoculation is not needed, although on most types of soil it pays to

> Some varieties of soy beans are adapted better than others to certain uses and conditions. In northern latitudes earlier varieties will mature more certainly than will later ones. Such varieties as the Ito San, Early Brown and Parson's Auburn do well in Michigan. Ito San matures a few daysearlier, but the Early Brown and Parson's Auburn are heavier yielders of both beans and forage. Early Brown is probably the best all-round variety for the north.

> For best results soy beans should be inoculated. The most practical method is to secure inoculated soil from men who have grown soy beans, using two quarts of inoculated soil to each bushel of seed. A good method is to spread the seed on a floor and moisten them with water to which has been added two tablespoonfuls of liquid glue. To the seed so treated add the soil, which absorbs the moisture while the glue water holds the dirt to the seed and insures even inoculation.

Seed so treated should be stored in a dark place, as sunlight is death to the bacteria. Soy beans should be planted about one inch deep. Nothing is gained by planting deeper . A quick would have been much better had start and vigorous early growth is necessary to mature well-filled pods in this latitude.

If your local dealer is not sure of his varieties or the source of his seed supply it is best to look elsewhere for your seed. Your county agent should be able to advise you where you can get good seed. W. M. K.



TAKING HOMESTEAD ON JUDG-MENT.

We bought our place by a contract paying part down, and agreeing to pay \$500 and the interest on the first day \$500 and the interest on the first day of every January following, until the whole amount was paid, when we were to have a deed; and later my husband bought some machinery on written contract agreeing to waive all exemptions. Can the seller of the machinery take our place for what is due on the machinery, if he gets a judgment on it?

One may have a homestead in land

One may have a homestead in land which is not owned in fee, but merely on contract; and any agreement by the husband to waive the exemption of the homestead not signed by the wife is void, not to say that it would be good in this case even if she had signed it. By the statutes of this state any sale or mortgage or other incumbrance of the homestead by the husband not in writing and signed by the wife is void. JOHN R. ROOD.

### DISCING VS. PLOWING.

I have twelve acres of a sandy and clay loam which I put into beans last year and was a failure. Which would be the best to disc this ground thoroughly or plow it for part corn and part barley this spring.

Livingston Co.

J. J. G.

Livingston Co. If this field was well cultivated last season so that there are hardly any weeds to bother, I would say that for the barley it would be better to prepare the land by thoroughly discing it, leaving a firm, solid sub-soil; but for corn I would plow because corn has a different root system and the ground ought to be loosened deeper.

### CRIMSON CLOVER.

I would like to hear from Mr. Lillie in regard to growing crimson clover. I have ten acres of fall wheat to seed in the spring. The crimson is by far the cheapest seed. But I do not know how it would stand the winter. Is it as prolific as the June, and would it make as good a stand under favorable conditions? My neighbor sowed some last spring on wheat and it looked fine when the snow came on. But it may look different in the spring. look different in the spring.
Sanilac Co.

Crimson clover cannot be depended upon in this climate. It is not nearly as hardy as our common red clover. Several years ago I tried quite thoroughly to get a stand of crimson clover and the little I did get winter-killed. During a favorable season you might get a stand of this plant and get a good crop but it is quite risky and belongs to a latitude much farther south than Michigan. Down in Maryland crimson clover thrives, but it is extremely liable to be winter-killed in this climate. C. C. L.

### SEEDING TO ALFALFA.

I have a ten-acre field to sow to Grimm alfalfa and would like to know if it would be safe to sow when I sow my oats or would it be better to wait a week after sowing the oats. I would sow the oats about April 15.

Genesee Co.

O. D. G.

Alfalfa is very often seeded with oats. It is best not to sow over a bushel and a half of oats to the acre so as to give the alfalfa a chance.

The seed should be sown at the same time the oats are sown, allowing the seed to scatter in front of the teeth of the drill. This will probably cover the seed sufficiently although it is better to roll after seeding with a corrugated

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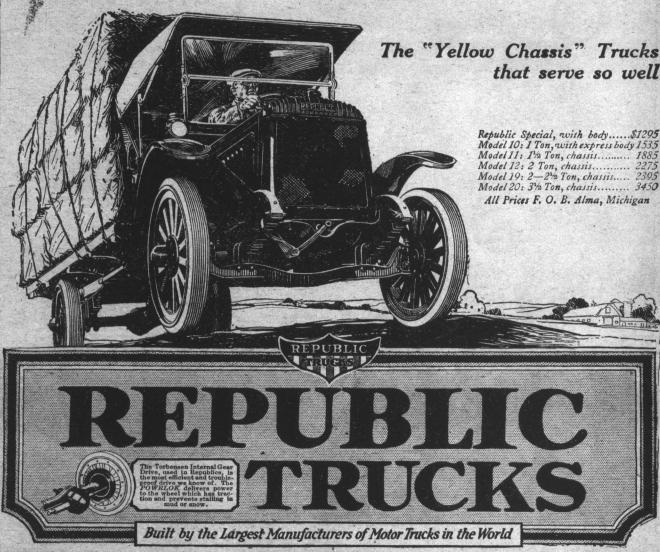
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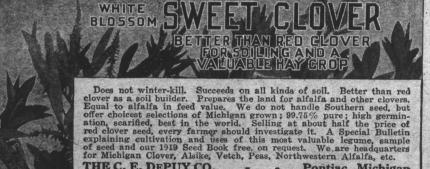
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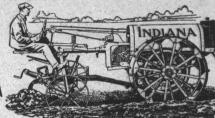
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# The Dairy Periscope

By I. J. Matthews

true submarine style, where many a cream more as a by-product. This fact goodly dairyman did hold forth now, will always keep dairying a relatively there is nothing but a grease spot to unprofitable business unless it has show where he held the land down. some peculiar feature that would ena-But just as a ship in trouble can sooth ble the owner to get an income from the angry waves by pouring out a products other than milk and cream. quantity of oil, so the failures that the If pure-bred cattle are kept, the dairypresent conditions have brought on man has a chance to make a large will serve to calm the troubled per- proportion of his money from the surplexities of dairying.

Some Discouraging Features.

dairy products has not been commen-comes. surate to the constantly increasing driven a great many big enterprises energy. into the discard.

their insidious damage. The demand many points in its favor. for milk has fallen off considerably and his undertaking.

its own. It is doubtful if the milk busi- mand. ness alone will ever be an especially... lucrative one, since the bulk of the

AIRYING is now just one sea of dairy products in the United States are oil patches interspersed with produced by peope having three or four clear areas here and there. In cows. They regard the butter and plus breeding stock. It may be that the milkman can develop a special At the present time there are some trade in cottage cheese or some other discouraging features in dairying. One product that will enable him to have of them is the very noticeable fact for sale a number of by-products. Some that except in very rare instances, the such trade as this often makes it posprice received for milk, cream or other sible for dairymen to double their in-

Beyond all this is the observation costs of running a dairy. The price of that dairying is a business that furthfeed has rocketed to unheard of heights ers the best interests of the commuand it has been practically impossible nity. The dairyman who supplies to get enough labor to keep the busi- promising growing babies and future ness running at a one hundred per cent presidents with milk that is absolutely efficiency standard. Not only this, but essential for the normal development there has been a continual lambasting of their bodies is a public benefactor of the dairy farmer by our big city and his value is to a large extent dedailies. The damage that has been pendent upon how he regards his job. done cannot be repaired in a moment Moreover, dairying is not a business. for so many things were said that that ran be mastered in a short while. would tend to influence people against Few men are fortunate enough to do the extended use of milk and milk pro- anything really worth while in three ducts. Then, too, the discrimination years and the majority of men are of butchers and packers against the not heard of even in five years, while surplus stock that the dairyman sells at the end of ten years not more than has worked a hardship, since it has one out of every fifty has accomplished cost relatively more to get this young anything worth while in the matter of stock in shape where it could be sold constructive breeding. This makes it or disposed of. All these taken togeth- more desirable for young men to take er with the routine of the dairy has up the work and devote to it their best

The fertility of many farms is a prob-The last few months has seen a com- lem that is automatically solved plete dispersion of three of the larg- through the use of dairy catte. It has est pure-bred herds in the country and been proven beyond doubt that land hundreds of other herds of high-grade may be kept fertile by grain farming, and registered dairy cattle have been provided enough legumes are grown scattered. Out of it all, will probably and plowed under from year to year. come a refining of the dairy business Theoretically and practically this is and an appreciation on the part of the the case, but actually it has never happublic that the dairyman is an essen- pened in farm practice except on very tial part of the economic machinery of rare occasions. Dairy regions are by any community. Even now, some of all signs and appearances prosperous the city editors who said harsh things and while the farmer may not be able last fall are seeing the folly of their to make twenty or twenty-five per cent ways and are facing about. Yet the on his investment, he is pratically saucy and untrue editorials which they guaranteed a steady income as well as published some time ago have done a labor distribution that has a great

Every indication is that there will be with absolutely no reason other than an adjustment of prices that will give that there has been so much agita- the dairy farmer an opportunity to get tion against the dairyman. It seems for his product the cost of production strange after all has been said and plus a certain fixed per cent of profit. done that the dairyman, of all classes I see no reason why it should not be as of farmers, should be picked out as the feasible to set a price like this on the object of a great offensive by the high products of the farm as well as those command of editorial ability. A good that are manufactured. That compedairyman is not only a public benefac- tition is the life of business is only tor and a necessity in the development part of the truth and the fact is that of the youth of the country, but very competition is allowed to make itself often he works for a mere pittance and evident only now and then. Furniture in the last year or so has not received manufacturers do not put their product money commensurate to the labor and on the market in a competitive way. feed and capital necessary to further They do not put it out and ask the other fellow what we will give for it. As we look up through the periscope but they simply determine its cost and it is very easy to see that there are add onto this enough to cover interest brighter days ahead for the dairyman. on the investment, profits and sales. Many a goodly ship has gone down on The competition is only of a very pethe dairy highway and as is always the culiar variety and about all that can be case, we profit as much from failures said to show this fact is that two as from successes. The fact that de-makes may both be on the market at sirable animals in recent public sales the same time. When the goods do not have sold for good prices is proof posi-sell readily, the factories, of course, tive that big breeders can see ahead. stop rushing quite so hard and produc-They feel that dairying will come into tion naturally adjusts itself to the de-

So it seems that the same thing nor (Continued on page 622).



### RED-TOP ON SANDY LAND.

Owing to the high-priced clover seed and the dry seasons, I would like some information on sowing red-top and timothy seed mixed, and if it does well on sandy soil.

One of the most serious problems of farmers in recent years, particularly those on sandy soils, has been the loss of the grass seedings by dry weather. It is indeed discouraging to sow clover seed year after year and have failure more often than success, yet many continue to do so, hoping the weather conditions will be more favorable the next

On the writer's farm the clover seeding killed out last year, but on another field with barley as a nurse crop alfalfa was sown broadcast after drilling. It survived the summer and promises to make a fair crop. While grass crops in general make the best growth on the heavier soils if properly drained, there is no reason to believe that Red-Top or timothy will not grow fairly well upon sandy soil. Both are quite hardy and drouth resisting, and undoubtedly will survive a season that the clovers will not withstand.

It does not seem advisable to the writer to sow the two grasses mixed for two reasons. First, Red-Top will germinate and grow fast enough to smother most of the common weeds and probably would also the timothy, which is slow in starting. Second, and the more important reason is because the two do not mature for hay at the same time, Red-Top being somewhat earlier than timothy when cut for hay.

Because of its light weight, Red-Top is more difficult to sow than the heavier seeds. The most satisfactory method is with a grass seeding drill. If one is not obtainable and a nurse crop is used, the seed can be sown with a W. J. R. grain drill.

### SWEET CLOVER.

Would you please give me some information about sweet clover? Which is the best for this climate, the white or the yellow blossom, and when is the proper time to sow? I have a field of about seven acres, near the barn, which I want to keep for pasture. I cut one crop of hay from this field last year. We did not get a very good catch of clover so I thought by sowing sweet clover this spring it would make some pasture this year. Would the sweet clover catch on a sod of this kind without plowing it? The field is kind of a sandy soil. I thought of harrowing it with the spike-tooth harrow before seeding, and again after seeding. I would like to get sweet clover started in this field, as it is handy for pasture. pasture

Sanilac Co. The white blossom variety is con-

sidered to be the best, especially for pasture. It is a hardier, more vigorous growing plant. For hay, however, the yellow blossom variety is sometimes preferred as this does not grow so rank and can be cured more easily.

I think you ought to disc up this ground before you sow the seed and then it ought not to be pastured until the sweet clover gets a start. Had you sown the seed on this ground this winter probably the action of the frosts would have covered it sufficiently so that it would have germinated. Some sweet clover, however, remains in the ground quite a long time before it germinates. It has such a thick outer coat that it is almost impervious to moisture and sometimes seeds will remain in the ground for a year before they germinate. There is a new machine called the "scarifier" which sandpapers or scarifies this outside coat so that it is not so impervious to moisture and then we get quicker germination. I think you ought to get some pasture late in the season. C. C. L.

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These are but a few of the many very good reasons for Studebaker value—why Studebaker can and does produce cars of sterling high quality at low prices. If real economy is your consideration—if you want to get the most for your mouey—investigate the New Studebaker Cars before you buy. And if you purchase your motor car on the same basis as you do your blooded stock or a piece of farm machinery—as an investment—then Studebaker should be your as an investment-then Studebaker should be your

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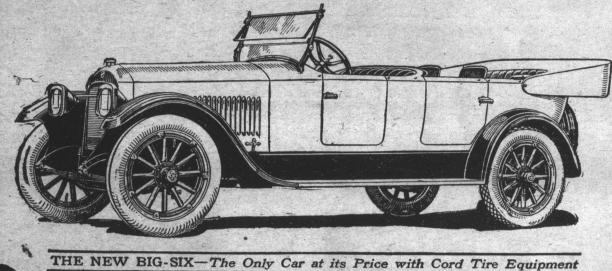
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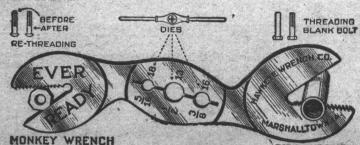
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Made from tool steel and oil tempered. Is both a pipe and nut ach. It has three standard size dies that will re-thread and cut new



A very handy tool in repairing broken bolts. Just the thing to remove Rowe and Neverslip Calks. This wrench will work in very close

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### Live Stock Outlook

TEVER in the history of the live stock industry of the United States have cattle, hogs and sheep sold anywhere near as high as they have done for a year past, and there are no indications that prices will go lower for months to come, as it is practically certain that American farmers will have all they can do to feed not only the people of this country but also the countries of Europe. Beef and hog products will continue to be largely wanted for exportation, but the demand is expected to center very largely on lard and cured hog meats, although canned beef will also be in large demand.

Probably hog raising holds out the most alluring promise to the average farmer, as hogs can be raised and matured in much the shortest time and on the smallest capital. Stockmen who have followed the raising of hogs for a long period consider it much more profitable than cattle feeding, as feeding steers costs a lot of money at the start, provided they are of a desirable kind, and the average buyer has to borrow money on them at a high rate of interest.

On the other hand, the average farmer is in a position to raise his own hogs without borrowing any money. A successful farmer-stockman of southeast Nebraska who has followed hog raising for years, raises two crops of hogs every year, while a farmer of southeastern Iowa feeds no cattle, but has stuck to hog breeding and raising for six years, finding it highly profitable. His shoats are farrowed in March and April, and they are marketed when weighing from 225 to 300 pounds, the farmer raising from 150 to 200 hogs a year.

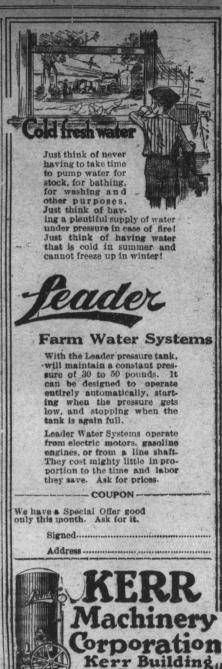
Recent advances have landed hogs at around the highest prices ever paid, while provisions have experienced a great boom, pork going up as much as \$1.00 a barrel in a single day. As a pointed of how things are going, it may be stated that exports from North America in a recent week included 70,-916,000 pounds of cured hog meats, comparing with 39,099,000 pounds a week earlier and 17,034,000 pounds for the corresponding week of 1918. During the same week exports of lard amounted to 32,332,000 pounds, comparing with only 6,282,000 pounds a year ago.

Restocking the Pastures.

The time has arrived for restocking pastures with cattle, and farmers are placing buying orders for feeder cattle with commission firms in Chicago and other markets. As is always the rule, the men who do their buying the earliest get the best bargains, and belated buyers are forced to pay much higher prices. All kinds of feeders and stockers have had marked advances in prices since their upward movement began several weeks ago, and of late the rise in Chicago market prices has been more marked on the cheaper class than on choice weighty feeders. Recent sales of stockers and feeders ook place largely at a rang to \$14 per 100 pounds, with not many sales above \$14.50, as prime lots of feeders with a little flesh fall largely into the hands of the packers, who outbid country buyers in the Chicago market. Limited number of the choicer class of feeders are taken to ship to feeding districts at \$14.75 to \$15.75, while ordinary to fair stock steers go at \$8.75 to 9.75 or higher.

Heavy Cattle Scarce.

While the leading western markets have received in the aggregate larger (Continued on page 645).





50 Belgian Hares, all ages, good, utility stood W. E. LECKY, Hedmesville, Ohi



### Save Farm Manures

A NIMAL manure is the only "universal fertilizer" to be had. Yet in some poorly favored countries manure must be used as a fuel, and in some sections of our own country manure is burned instead of being spread on the land. But even in sections where the value of manure is appreciated there are thousands of farms where half or more of the available supply is unintentionally "burned up" before the land-owner gets ready to use it as it should be used.

Manure furnishes humus. It also supplies plant food. It both adds and stimulates bacterial life in the soil. For one or the other of these three reasons, or perhaps for all three, the use of manure on land increases crop growth; and because the value of the increase produced is practically always greater than the cost of applying the manure, it is good business to save and use manure as a fertilizer.

To some fertilizer men it may seem that manure is a competitor of fertilizer, but this is not the case. Manure and fertilizer are two very differnet things. They are supplementary, but not antagonistic. Fertilizer cannot on most farms fulfill all the duties of animal manure. Neither can manure furnish all of the plant food needed by the nation's crops. Furthermore, waste of manure is an economic loss. The chances are "dollars to doughnuts" that in the long run those farmers who allow manure to waste are the ones who very shortly will have no money with which to buy fertilizer. Good practice in conservation and application of manure goes hand in hand with sound practice in the use of fertilizer.

Let us take, for illustration, a practice all too common—that of allowing the manure pile to remain loose and open for weeks, even for months, before spreading. Just as well may the farmer set a torch to the pile, for just as surely will it be burned up and destroyed, with both organic matter and ammonia lost to the winds of the heavens. The value of the increase in crop which this might bring is lost, and to this extent the farmer is less prosperous and less able to improve his agriculture.

On the other hand, suppose the farmer practices the simple expedient of either applying the manure when fresh, as can be done in large sections of the country, or, if it must be stored for any length of time, keep it packed and moist, thus preventing destructive heating. The cost is very little. The saving in humus is immense. The prevention of loss of ammonia is even still more important. Those farmers who follow the last practice can keep their soils alive, in good condition, and in such shape as to make the best possible use of fertilizer. On the other hand, those farmers who waste manure use their fertilizer at a disadvantage, with loss alike to themselves and to all those industries depending on agriculture for their prosperity.

There are a number of ways in which fertilizer is supplementary to manure. It may be used to balance the plant food ration furnished by manure. It may be used to piece out the inadequate supply of manure. In fact, it may even be used to grow those crops from which more manure is made or to replace manuring crops. Before taking up these several points, however, let it be clearly understood that the better the use made of manure the greater the opportunity for the fertilizer industry.



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The Light Weight Car Everyone Is Talking About Does Not Soon Show Wear

# The Essex Stays New

The frame of the Essex is as strong as a

Road strains do not affect it in the slightest; consequently, the Essex is free from squeaks and rattles.

There is no weaving or twisting of the radiator. The Essex remains rigid and firm under the hardest service. Every wearing part is adjustable as well as being well lubricated. The Essex retains its newness.

Just ask any of the tens of thousands who have ridden in the Essex and who are so enthusiastic in their praise of it to describe how substantially and quietly it rolls over even the roughest roads.

How often motorists, particularly those with light weight cars, have driven miles out of their way to avoid a stretch of bad road, because of the torture to themselves and to the car.

But the Essex is affected by no such abuse.

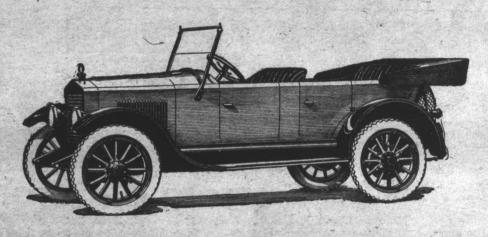
Its spring suspension is unusual and effective. Its construction is so solid that even the roughest cobblestone pavements are passed over with an ease that has created the greatest admiration.

Its friends declare the Essex has no equal in easy riding quality regardless of the size, weight or cost of the car.

When will you take your ride in the Essex? Any dealer will show you how and why the Essex rides so easily, performs so well and retains its quiet and rigid qualities.

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All Kinds Trees And Plants. GROW
Grow your own fruit. Improve value and appearance
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the greatest improvement ever made in dairy barn equipment.

With this remarkable time-saver you can stand at one end of a row of 50 cows, throw a single lever and lock them all in their stanchions, or release them—if you use West Bend Swinging Stanchions and Cow Stops. With the same equipment you can release any cow or lock her in separately. It's the greatest time-saving, labor-saving device in modern barn equipment. With this equipment you can lock in or release 50 cows in about the same time you would individually spend on one cow with ordinary equipment and do it quicker and with absolute safety, for you do not have to approach the cows' heads.

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Mention The Michigan Farmer When Writing to Advertisers a rosy glow in the east and the sky is clearing in the west.

WILL THIS BE AN APHIS YEAR?

WILL aphis be bad this spring and summer? Fruit growers want to know so as to be prepared with the proper spray and apply it at the right time. These small insects are wellknown to all orchardisst for they not only injure the apple trees by sucking the sap which curls the leaves, but they also stunt the forming fruit. These, later in the season, appear as small and misshapen culls. The aphis does not pass the winter in the adult stage but as a shining black egg which was laid late last summer or fall on the apple twigs. These may be found at the base of the buds, on old leafscars or even on the sides of the twigs. The writer has found many of these eggs early this spring, in orchards in different parts of the state. From observations it looks as if the aphis will be much more abundant than last year. Already the aphis is beginning to hatch and soon the newly hatched insects will get on the newly expanded leaves and will make them curl when they are hard to hit with a spray.

An early spring, with warm, dry weather following is unfavorable to the aphis, and a cold, wet, late spring is favorable to them.

Control.

Almost everyone interested knows what to spray if not when to make the application. Inasmuch as these are sucking insects a contact spray must be used. Apply a spray of nicotine sulphate, using a pint of black leaf forty per cent, or some other forty per cent nicotine sulphate, to one hundred gallons of water, adding two or three pounds of soap to the mixture; or else add a pint of the forty per cent nicotine sulphateto one hundred gallons of lime-sulphur or Bordeaux mixture. Stir the nicotine into the solution just before applying. If it is used with limesulphur don't use soap.

This spray should be applied as soon as the aphis are hatched which is about the time the leaf-buds burst, or a spray put on when the buds show pink will help. A thorough job done at the right time will control the aphis.

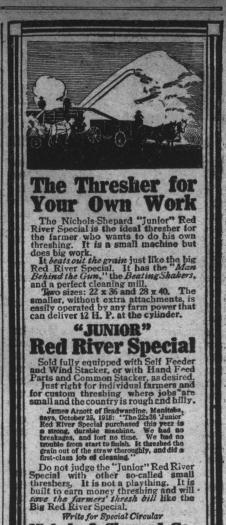
DON B. WHELAN.

### THE DAIRY PERISCOPE.

(Continued from page 622). might be used in arriving at legitimate prices in milk production. The National Board of Agriculture mentioned some time ago would be useful here. It ought not to be necessary for any man to sell a product at less than it costs him and it would be a very unwise government that would allow such a thing to happen in many instances. If we were to assume the price of milk set in this fashion, we might hear somebody asking, "What is to be done with the surplus?" but it remains a fact that the surplus would take care of itself just as well as the manufacturerss' surplus does.

With a given price set on milk. farmers could adjust their production to meet the needs of the various seasons. Cows would be bred to freshen in the fall so that as much milk as possible could be delivered at the "cost plus" price. If we were to imagine the price of milk fixed at cost plus, it would be to the best interests of every farmer to convert his cows into fall fresheners, not because the price of milk was any higher in the fall, but because of the fact that the manufacturer would be able to use more of the product. So far as that is concerned, a cow that freshens in the spring adds insult to injury because she produces the bulk of her milk just when the product is in least demand.

The periscope shows a cloud with a silver lining. People must have milk and they appreciate the fact now more than ever before. It is a constructive business and quite necessary in keeping up the fertility of a farm. There is





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In Continuous Business Since 1844
Builders exclusively of Red River Special Threshers, Wind Stackers, Feeders
Steam and Oil-Gas Traction Engine
Battle Creek
Michig





### Plan for Selling Wool

(Continued from page 613).

and have a uniform way of wrapping and tieing the fleece. He says paper twine is the best, as the wool fibers do not adhere to it, but with the sisal or manila twine there is always some wool lost.

Paid to Grade Fleeces.

The value of grading was emphasized while the demonstration was being given. W. H. Young, Department of Agricultural Extension, University of Illinois, who was a farmer in Menard county, Illinois, until two years ago, says grading wool pays. He said they had a grader to come into their neighborhood after the wool was stored and grade it for them. Then it was sold according to the grades. "When bids were made we knew about how much we should get for certain grades," remarked Mr. Young, "because we watched the quotations. If we shipped to dealers we knew about what we should get for certain grades of wool."

After inspecting the plant another ride of about ten minutes was taken to the Boynton Wool Scouring Com pany. They were taken all through the process of scouring wool. A. Rose, secretary and treasurer of the scouring mill, took the group through every phase of the work. One might think that wool is wool before going there, but it was soon found that there is wool and wool-dirty wool and clean

See Burrs Removed.

They were first shown the wool sorters skirting the individual fleece. From three to fourteen throws may be sorted from a fleece. After the dirty wool is separated it is cleaned, and the first operation is that of burr picking, where all the cockleburrs are taken out by means of machinery. After the burrs are removed the fleece is scoured with soap and water and dried. Then treated with an eight per cent solution of sulphuric acid to destroy the vegetable matter such as sticks and weeds. After this process it is dried and baked, changing the foreign matter into charcoal.

After charring the foreign matter the wool is run through rollers, where the particles of carbon or charboal are crushed. From the rollers it is dropped into a blower, where the crushed charcoal is separated from the wool. Again the wool is washed in soap and water, alkali in reaction, to neutralize the acid. From these vats it is passed through a drier, and in the dry, fluffy form it is passed through blow pipes into bins ready for the carding mill.

During the process of scouring the wool fat is separated and put in cans. The carbon, manure, scraps of wool, and other waste products are thrown into a pile used as fertilizer. From fifteen to twenty carloads of fertilizer accumulates at this plant every year.

With a clear conception of the possibilities of cooperating in the work of wool marketing, these men have gone back to their counties to begin their campaigns. They will attempt to show the wool growers of Illinois the many advantages of concentrated method in selling wool.

### MANGEL WURZELS WITH SILAGE.

Would you consider it profitable to feed mangel wurzels to cows with ensilage? How much seed should be planted on a half acre of ground?

Washtenaw Co.

J. J. W.

Mangel wurzel beets are a splendid succulent food for cows, probably better than corn silage, but the succulency of the silage will take the place of the beets and you can raise the silage so much cheaper than you can the beets that a man who has a silo does not consider it worth while to grow beets in adition. It takes too much labor to grow beets. C. C. L.

A New Fifteen

FIFTEEN million dollars worth of "Z" Engines are on over 200,000 farms-proving a remarkable engine service. The new 11/2 H. P. "Z"-just perfectedcompletes a line of KEROSENE engines-11/2 H. P. to 15 H P .- all of which merit the keenest interest of every farmer. The rare combination of scientific design -fool-proof construction-efficient operation-lowest possible fuel cost—certainly establishes the supremacy of the "Z". Go to your dealer-see the "Z"-then you'll quickly learn why progressive dealers feature the "Z" line after comparing it with all others.

also runs on Distillate Coal Oil Tops or Gasoline

Throttling Governor—Built-In Oscillating Magneto

Prices, 11/2 H. P. \$61.00—3 H. P. \$100.00 6 H. P. \$179.00 F. O. B. Factory

# banks, Morse & C.



### One Hundred **Bushels More**

"I used Pyrox this season and am more than pleased. The vines were green when others were dead and they are yielding 75 to 100 bushels to the acre more than those not sprayed. Its adhesive power can't be beaten.

-HARLAND BARNES, Gardiner, Maine. You can protect your crops and increase the vields

if you spray



"The Spray That Adds to

Pyrox is a smooth, creamy paste which is all ready to use simply by mixing it with cold water. Just measure out the proper amount and mix it with water for your spray solution.

Pyrox sticks like paint. Re-spraying is necessary only to cover the later new growth.

Get this Pyrox Crop Book. It tells how to protect your crops against bugs, worms and disease. Send for a copy today. A postal card will bring it.

Bowker Insecticide Company
43-E Chatham St., Boston 1006 Fidelity Bldg., Baltin

# Make Money Spare

Building Supply Department M-100
White Star Refining Co. Detroit, Mich.

Early Yellow Dent

# SEED CORN

Best in the state, agency goes with first order \$3.75, \$5.00 and \$8.00 per bu. shelled, according to strain. All graded, germination guaranteed.

D. WOODWARD & SON, orn Breeders, Clinton, Mich.



### DICKEY GLAZED TILE SILOS

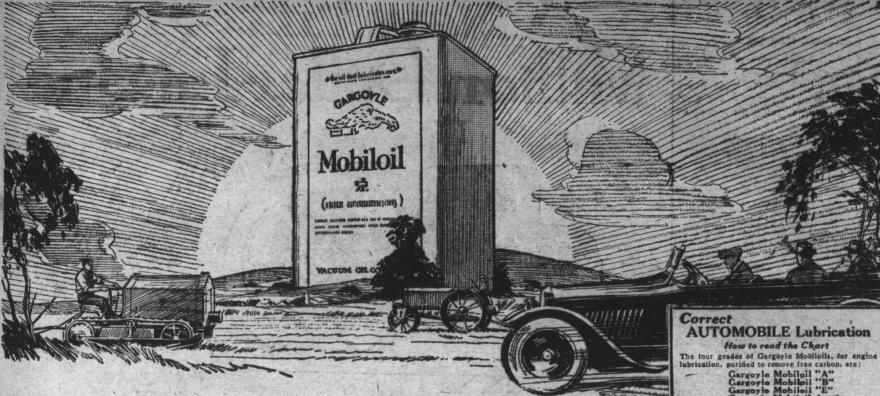
"The Fruit Jar of the Field" SPECIAL OFFER to! those who write now.

W. S. DICKEY CLAY MFG. CO. Macomb, III. Kansas City, Mo. Chattanooga, Tenn.

### AGENTS WANTED

Live agents wanted in unoccupied territory for WEST-ERN KEROSENE Carburetors for FORD Cars. An all-year-round selier. Biggest corporations equipping exclusively. Thousands in use- 50% fuel saving, money-back, guarantee. Big profits. Write for agency today. WESTERN CARBURETOR COMPANY, Alma, Michigan.

Please mention the Michigan Farmer when writing to advertisers.



# Getting the most from Mother Earth

### Correct **TRACTOR Lubrication**

How to read the Chart

The four grades of Gargoyle Mobiloils for tractor lubrication, purified to remove free carbon, are:

Gargoyle Mobiloil "A"

Gargoyle Mobiloil "B"

Gargoyle Mobiloil "BB"

Gargoyle Mobiloil Arctic

In the Chart below, the letter opposite the tractor indicates the grade of Gargoyle Mobiloils that should

	Mos	1918 Models		1917 Models.		Models		Modela.	
TRACTORS		Winter	Summer	Winter	Summer	Winter	Summer	Winter	
Albaugh-Dover (Square Turn)	вв	A	BB BB	A	BB	A			
All Work	B	A	BB	A B	A B A	AAA	A	A	
Appleton	BB	A	BB	A	A	A	A	A	
	BB	AAA	BB	A	AB	AA	В	A	
* (5-10 HP.)	B	A	B A BB	AA	A BB	Arc	BB	A	
Bates Steel Mule,	В	A	B	AA	вв		BB		
Bean Track Pull Best (8-16) Big Bull	A B	A	AB	AAA	В	A	В	A	
Big Bull	В	A	AB	A	BB	A	A	A	
Bower City	BB	A	BB	AAAA	BB	A			
At (Ohio)			BB	A	B	AAA	BB	AA	
(0-18) (10-20) (12-25) (20-40)	A	A	B	A	В	100 276	В.		
" (12-25)	BB BB	444	A BB	A	AB	AAA	В	A	
Chase Cleveland	BB	A	BB BB	A	B	A	B	AA	
Common Sense	BB	A	BB	A	A	A	A	A	
Common Sense	BB	A	BB	A	AB	A	AB	Ar	
Creeping Grip: Emerson-Brantingham (EB) (EB)9-1 (Big Four	BB A 0 B	A	BB	A	B	Arc	BA	A	
(EB)9-1	) A	A	A	A	A	Arc	A	Ar	
	B	44	B	A	AB	A	A	A.S.	
Flour City (Henvy Duty).	. B	0.79953	В	A	B	Arc	A. B	Ar	
Galloway. Gas Pull (Rumley Co.)	B	A	BB	A	В	A	В	Ä	
Grain Belt	BB	A	BB BB	A	В	A	Ä	A	
(Heavy Duty)	В	A	В	A	В				
Hart Parr,	BB	A	BB	A	B	A	BAA	AAA	
Holt Caterpillar (Model 45)	BB	A.	BB	A	BB	A	A	4	
Hart Parr, Heider Holt Caterpillar (Model 45) (Model 18)	ВВ	Ã	BB	A	В	A	В	A	
Imperial Forty	BA	A	B	A	B A BB	A	В		
Kardell	BB	A	BB BB	A	n	A	A	A	
	ВВ	A	BB	A	BB	A	A	A	
Little ChiefLittle Giant	BB	A	BB BB BB	A	BB A BB	A	A	A	
Kinkead Lion Little Chief Little Chief Little Glant Mayrag Minneapolis Mogul (I. H. Co.) (8-10) (I. H. Co.) Moline Universal New Age. New Age.	В	A	B	A	B	A	B	A	
Mogul (I. H. Co.)	BB A BB	A	BB A BB	A	BB A BB	A			
Moline Universal	BB	A		A		A		**	
New Age. Nichols & Shepard.	ВВ	A	BB	A	A B	Arc A A	AAB	Ar	
Nilson Oil Pull (Rumely Co.) (14-28, 10-20, 20-40 (Rumely Co.) Parrett	). B	A	В	A	В	A	B		
(Rumely Co.)	BB	A	BB	A	À.	A	À	A	
Pioneer	В	Ä	BB	A.A	AB	A	AB	868	
Plow Boy	ВВ	A	BB BB	A	BB BB	A			
Pontiac	В	A	B	A	A BB	A	A BB	A	
D	BB	A	BB	A	BB	Arc	BB	A	
(Little Four)	BB	A	BB	A	A	10000	Ä	A	
Standard	B	A	BB	A	A BB	A Arc	A	A	
Strait Titan (I. H. Co.) Tom Thumb (4 cyl.) Twin City (Model 15)	BB	A	BB BB	A	BB	A	A	8	
Tom Thumb (4 cyl.)	В	A	BB	A	AB	A	A		
Twin City (Model 15)	BB	6237			A	A	A	A	
Wallis Cub (Junior)	BB	A BB	В	BB	A	Arc	A	A	
Waterloo Boy	AB	A	A BB	A	B	A	B	.A	
Wuba	BB	A	BB	A	A	A	A	1	

The part played by Correct Lubrication

71TH ever-widening markets for their crops, progressive farmers realized that animal power long ago reached its limit of production.

So they turned to mechanical power, as have men in other industries. With mechanical power they made the trip to town a matter of minutes instead of hours. They plow deeper, work faster, and cultivate a much bigger acreage.

The automobile and the tractor have become standard agricultural implements-one to shorten distances and the other to shorten labor.

The great war demonstrated two things:

- 1.—That mechanical power multiplies crop results.
- 2.—That mechanical power, operated and maintained at highest efficiency, gets the ultimate out of Mother Earth—at costs per acre far below any ever before

Whether you use an automobile or a tractor-or both-

recorded.

you know the difference in power results and economy, between engines that operate at maximum efficiency at all times and those which are constantly breaking down in service.

Through long, successful years, one engine user after the other has turned to the correct grade of Gargoyle Mobiloils because the correct grade keeps their engines delivering their best. Our engineers, after years of careful research, have produced the two Authoritative Charts of Recommendations shown here. These Charts tell at a glance the correct grade of Gargoyle Mobiloils for any make of automobile or tractor for both summer and winter use.

Farmers who operate automobiles successfully, farmers who get the most out of their tractors, regard the Vacuum

Oil Company's Chart of Recommendations as authoritative guides to correct lubrica-



A grade jor each type of motor

In buying Gargoyle Mobiloils from your dealer, it is safest to purchase in original packages. Look for the red Gargoyle on the container.

### VACUUM OIL COMPANY, New York, U.S. A.

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

Domestic New York Philadelphia Detroit Minneapolis Kansas City, Kan. Branches: Boston Pittsburgh Chicago Indianapolis Des Moines

# **AUTOMOBILE Lubrication**

In the Chart below, the letter opposite the car cates the grade of Gargorie Mobiloils that shoul used. For example, "A" means Gargorie Mobiloil "A", "Arc" means Gargorie Mobiloil Arctic. The recommendations cover all models of both senger and commercial vehicles unless other

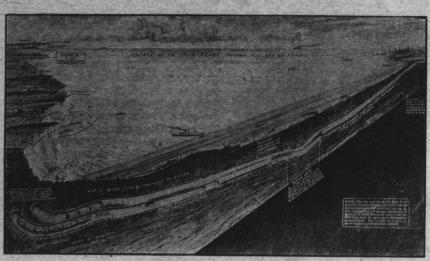
This Chart is compiled by the Vacuum Oil Company's

advice on Corre	19	18	nobi	IIV.	19	10	tion	is.	19	14
	Mo	dela	Mo	dela	Mo	dels	Mo	dela	Mo	dela
AUTOMOBILES	Summer	Winter	Summer	Winter	Summer	Winter	Summe	Winter	Summer	Winter
Abbott-Detroit. (6 cyl)	Arc.	Arc.	Arc.	Arc.	Arc.	Are	Arc.	Arc.	Arc.	Are
Dinense,	A	Arc.	A Arc.	Arc.	Arc	Arc. Arc.	A Arc.	Arc.	A Arc.	Arg
Apperson	A	Λ	A	A	A	Arc	A	Arc.	A	Ä
(6 cyl) (6-38 & 6-39)	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Are
Apperson (8 cyl)  " (8 cyl)  " (6 cyl)  " (6 cyl)  " (6 -38 & 6-39).  " (6-39B)(Tenter H).  " (6-39B)(Cont'l)  Autocar (2 cyl)  Briscon	Arc.	Arc.	A	Arc.	A	Arc.	A	Arc.	A	Are
# /# aud)		Aire.	A	Arc.	444	Arc.	Arc	Arc.	A	Are
Buick Cadillac Case Chalmers	Arc.	Arc.	Arc. A	Arc.	A	Arc.	Arc.	Arc.	Arc.	Arc
	A	A		****	Arc.	Arc.	Arc.	Arc.	Α	A
Chandler Six	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Are
W CP AN	A	Arc.	A	A		777				
Cole(8 cyl)	Ä	A	Ä	A	Arc.	Arc	Arc.	Arc.	Arc	Are
Cunningham (8 cyl)  Oart (8 cyl)	A	A Arc.	AAA	Arc.	A	A Arc.	Arc.	Arc	٨	A
(Mod. C)	A	A		Arc.	A	Arc. Arc.	A	Arc.	A	A
Detroiter	Arc.	Arc. Arc.	Arc.	Arc.	Arc.	Arc.	E	Arc.		
Empire (4 cyl)	A Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Are
Federal (Mod. S-X) (Special) (Special)	A	A	Arc.	Arc.	Arc.	Arc.	Are.	Arc.	· · · ·	A.F
Ford. Franklin.	Arc. B E	Arc.	BE	-	BE	ABA	BEA	AE.	BEA	AR
Grant	A	Arc	AA	Arc.	A	Arc.	Arc.	Arc.	Arc.	Ara
a (12 cvl)	A	Arc.	A	Arc.	A	Arc.	A	Arc.	A	Arq
4 (Super Six)	A	Arc.	A	Arc.	Arc. A A	Arc.	Arc.	Arc.	Arc	Are
Hupmobile	A	Arc.	A	Arc.	À	^	AA	A Arc.	Â	AA
(6 cyl) (Com'l)	A Arc.	Arc.	Arc.	A Arc.	A Arc	Arc.	Arc.	Arc.	Arc.	Arc
King (8 cyl)	^	Arc.	A	Arc.	A	Arc.	Â	Arc.	Â	A
Lexington Lippard Stewart  (Mod.M)  " (Mod.MW)	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Are
" (Mod.MW)			AAE	Arc. Arc. E	E	Arc.	E	E	E	8
Locomobile	A	Arc.	AA	Arc.	A	A Arc.	A	Arc.	Ā	A
Marmon	A Arc.	A	A	A Arc.	A	A	A	Are.	Arc	Are
Mercer	A	A	Arc.	A	A	Arc.	A Arc.	Arc.	A	Are
" (22-70) Mitchell " (8 cyl) Moline-Knight	A	Arc.	A	Arc	AA	Arc.	A	Arc.	A	Arc
National	Arc.	Arc	Arc.	Arc.	A	Arc.	A	Are	Â	A
Oakland (8 cvl)	A	A	Arc	Arc	Arc.	Arc.	Arc	Arc.	Arc.	Are
Oldsmobile	Arc	Arc	A	Arc	Arc.	Arc.	Arc	Arc	Arc.	Arc
Packard (17 cyl)	A	A	A	À	A	A	A	Arc.	A	Arc
Paige (4 cyl)	Arc	Arc	Arc	Arc	Arc.	Arc.	A Arc.	Arc.	Arc.	Arc
6-36) (6-38-39)	ore		1374	Arc	A	Arc.	A	Arc.		
(6-40) Paterson	Arc	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.	Arc.		A
Peerless	Arc	Are	Arc.	Arc.	Arc.	Arc.	Arc	Arc.	Arc.	Are
Pecrless (8 cyl) Pierce Arrow (Com'l).	A	A	A	A	A	A	Arc	Are.	Arc.	Are
Premier	Arc.	Arc.	Arc.	Arc.	Arc.	Arc. Arc.	Arc. Arc.	Arc. Arc.	Arc.	Arc Arc
Regat (8 cyl). Renault (French). Rso. Ricet	100		Arc.		1 4	Are	A	Arc.	A	Arc
Riket	AAE	Are.		Arc	A	Arc.	A	Arc	A	Arc
Riker Saxon Seiden (½ ton) Simplex Steans-Kright " (8 cyt).	Arc	Arc	Arc.			Arc	Arc	Arc.	Acc	Arc
Stearns-Knight	В	A	Arc. A A A A A	Arc. A A	ABB	A	Arc.	Arc.	Arc.	Arc
Studebaker		Arc.	A	Arc.	A	Arc.	Arc	Are.	A	Arc
Velie (4 cyl)	Arc	Arc	Arc	Arc.	Arc	Arc	A Arc.	Arc.	Arc.	Arc
Studebaker  Stutz  Velie (4 cyl)  " (6 cyl)  " (2-& 3% ton)  " (4 ton)  Westcott,  White	Arc.	Arc.	9 500009	1				200	No.	
White.	Arc. A	Arc.	Arc. Arc. A	Arc.	Arc.	Arc.	Are	Are Are	Arc.	Arc
White.  " (16 valve) Willys-Knight Willys-Six	Arc	Arc	Arc	Arc.	В	A	B	A	10	A
Winton	Arc.	Arc.	lArc.	lArc.	Arc.	lArc.	Arc	Are	Are.	An

# WORLD EVENTS IN PICTURES



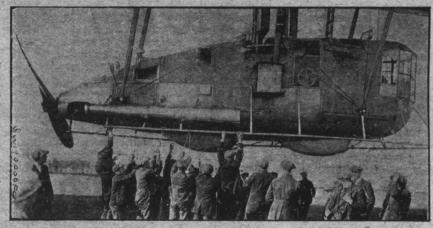
Audrey Munson, Beautiful Witness in Mysterious Dr. Wilkin's case. She is expected to make important and interesting revelations at the trial.



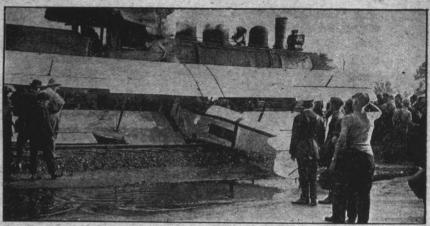
Proposed New Tunnel under the Channel from France to England will Enable Passenger Trains to Travel the Distance in Forty-five Minutes, and Paris will be but Six Hours from the English Shores.



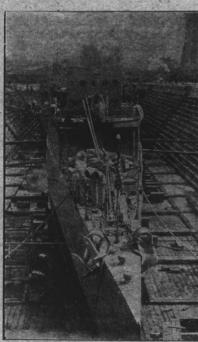
Charming Marguerite Damara, Wearing an Evening Bonnet made of an Old Silk Hat that once belonged to President Wilson.



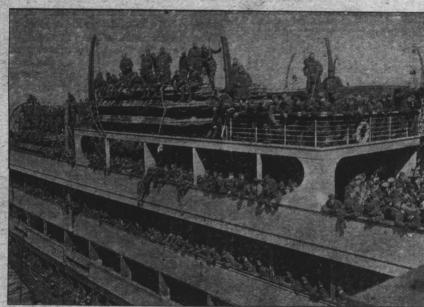
Gondola of the R-34, Britain's Largest Airchip, which will probably Attempt a fight Across the Atlantic at an Early Date. The Ship is 670 Feet Long.



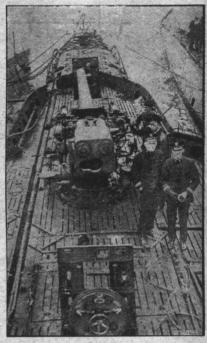
While the Air Man was Doing "Stunts" High in the Air, the Engine went Dead and the Plane Shot Out of Control. Upon Landing it Collided with a Locomotive, with Result Shown.



One of the 125 Ford Eagle Boats to be sent to aid the U.S. Forces at Archangel, Russia.



"The Yanks Are Coming." Heroes from Ohio, Wisconsin, Oregon and Michigan Arriving Home on the "Aquitania." The Boat is seen Docking at New York while the returning Heroes Swarm the Decks, Cheering and Singing to the tune of the Band.



Captured German U-Boat to be Exhibited in United States Waters as part of Victory Loan Drive.

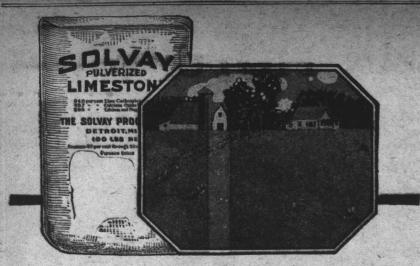


To make the Left Hand do the Work of the Right is the Aim of Uncle Sam's Instructors at this Reconstruction Plant at Colonia, N. J. These Men have Lost the Use of their Writing Arm and Must Write with the Other.



Photo of Danzig, Under Discussion by Marshal Foch and the Peace Conference. Danzig is Situated about 150 Miles from the Russian Border and is the Capital of West Prussia.

Copyright by Underwood & Underwood, New York



# SOLVAY LIMESTONE

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THEN you add Solvay Pulverized Limestone to your land you are actually increasing the land's v alue.

Any soil is as valuable as the crop it grows.

Solvay Pulverized Limestone by counteracting the acid in the soil, helps stimulate plant growth and produces bigger, more valuable yields.

Furnace dried—so finely pulverized that 95% of it will pass through a 50-mesh screen—high in lime carbonates-Solvay soon pays for itself in satisfaction and

Shipped in carloads either in bulk or in 100 pounds sacks. Arcadian Sulphate of Ammonia—20.75% nitrogen—will stimulate the growth of your crops and vegetables. Let us quote your needs.

Prompt shipments.

> THE SOLVAY PROCESS COMPANY Detroit, Michigan 2091 Jefferson Avenue



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Net weights 100 lb. 50 lb. 20 lb. 10 lb.
Lake Herring \$6.00 3.80 1.65 .96
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Split Ocean Herring 6.50 4.05 1.75 1.03
Alaska Herring 10.00 5.80 2.45 1.38
Whiting (Sea Pike) 6.00 3.80 1.65 .96

WISCONSIN FISHING CO. Dept. Y. Green Bay, Wis.

### CARLOAD

PETOSKEY-RUSSET SEED POTATOES from hill-selected stock. Field rogued by experts; Reference, Selected stock. Field logaco.

County Agent.
GEO. S. PIERSON, Kalamazoo, Mich.

Wanted Two married men to work on dairy and poultry farm in Wayne County. Apply A. W. Chase or H. Kemp, 919 Hammond Bldg. Detroit, Mich, Main 4491

Sweet Clover seed. Special sacrified, hulled and nhulled. Circular and prices on request.

John A. Sheehan, R. 4, Falmouth, Ky.

HORSES

Pure Bred Belgian Draft Horses

We have some extra good Belgian Stallions for sale, coming three and four years old, They are neavy, of good coinformation and sound. You can see their sires and dams. They are raised in Michigan and acclimated. We have no agents on the road for which you or we would have to pay, You cannot buy them any better nor cheaper in the world. Our studs and mares carry the best blood Belgium has produced. We prove this by their pedigrees. We invite you to see our stock before buying. You can see them any day of the week Except Sunday, Write for particulars and catalog to the OWOSSO SUGAR COMPANY, Prairie Farm, Alicia, Mich.

### Stallions and Mares

for sale. Two Registered English Shire Stallions 2 and 3 yrs. old also some Registered and high grade draft mares in foal and colts of all ages.

HOWARD KUHN, R. I. Clinton, Mich.

For Sale a matched pair of registered Percher on mares both black rising 5 & 10 yr old weight \$200 lbs. the 10 yr. old an imported mare in feel now and mother of the 5 yr. old. Will sell standard transparents. farmers' prices. HENRYS. ROHLFS, R. 1, Akron, Mich.

Percherons, Holsteins, Angus, Shropshires, Duroes

Percheron Stallions and mares at reasonable prices; inpectation invited.

F.'L. KING & SON, Chartlotte, Mich.

When Writing to Advertisers, Please say "I Saw Your Ad. in The Michigan Farmer".

# Verdict \$4,075 **Automobile Damage Suit**

Kalamazoo, Mich., April 2, 1919.

In the circuit court today the jury brought in a verdict of \$4,075 against J. Allen Snyder to recover for injuries sustained by Frederick Uithoven as a result of an automobile accident in which it is claimed that Frederick Uithoven has suffered injuries of a serious nature. J. Allen Snyder was insured in one of the small insurance companies which small insurance companies which gave him protection for \$800 for liability and he will have to pay the amount of \$3,275.

As the result of this verdict automobile owners are much in-terested in the policy of insur-ance they take. The Big Mutual Automobile Insurance Company. of Howell, protects the owner of of Howell, protects the owner of the car against damage claims made against him above \$25 up to \$5,000. During the five sea-sons that the company has been operating no member has had to pay to exceed \$25 upon a claim, as the policy has been sufficient to take care of large claims.

Automobile salesmen are taking more interest in insurance and are recommending the Citizens' Mutual Automobile Insurance Company of Howell as it has a large reserve fund of \$65,000 and monthly income sufficient to pay \$15,000 of claims per month.

This is the only mutual that has so large a reserve fund to meet the serious losses.

### HARROWS

# How We Got Our R. F. D .- No. III

By J. H. Brown

post office over and through all sorts torical importance. er frozen hubs and ruts.

south from the village limits. The negmax R. F. D. Memorial. First in the lect of the road builders will soon be U. S. A." corrected by the new Covert road run- It was the biggest day in the history ning east. Another road strip running of Climax village when the monument north, to be built by the county road was dedicated. Several thousand peoevery direction. Then these pioneer driven by the leading business men, rural carriers, the farmers on the rur- and carrying delegates of the Michigan will have good roads to drive across prominent state and national officials. this beautiful and noted prairie for the first time since 1825. The writer, as general chairman, led the parade in his car and carried Mrs. first time since 1825.

the first time.

for the electric light cable) is over the United States).

HERE are now over two thou- tion taken up by the arst permanent sand rural mail carriers in the settler in 1830, signed by President Anstate of Michigan. This is quite drew Jackson, was given us to deposit a jump from the two pioneer carriers in the copper box in the solid concrete of 1896 who started out, each with his under the cap stone. This box was horse and road cart, from the Climax well filled with various things of his-

of roads. A few days ago we drove. The picture also shows the monuto the village to take this latest picture ment completed, all but a much-needed of the same carriers and found they heavy pipe railing around the base. were obliged to still use horse-pulled This may be provided in the near fuvehicles during these open winter days ture. The new road signs, recently sebecause the roads around Climax gen- cured, we erected on a mid-winter day erally are so bad that automobiles can- in January when it was mild and pleasnot navigate through the mud and ov- ant. We drilled the holes in the heavy galvanized pipe shaft above the cap Steps have been taken by the farm- stone bare-handed and with our heavy ers and citizens to connect the village coat discarded. Then we bolted on with the state reward roads that trav- the iron scroll brackets and suspended erse in every direction in that section, the road signs. The sign pointing except through this noted village and north gives the distance to Battle prairie. The black prairie soil is deep Creek, ten and a half miles. To Camp and sticky when it is wet, and there is Custer, seven miles. The reverse side but one piece of gravel road running of each sign has the following: "Cli-

commissioners, has been promised for ple were present, including invited next year. Then, for the first time guests and speakers from the state since the county road system was adop- and Washington. Over seventy loaded ted several years ago, Climax will be automobiles formed at the city hall connected with good roads running in and Monument square in Battle Creek, al routes, and tourists driving through, Rural Letter Carriers' Association and

This picture shows the carriers W. H. Wait, state regent of the Daughwith their mail loaded up all ready to ters of the Revolution; Master John C. drive over their original routes about Ketcham, Michigan State Grange, and as they did twenty-two years ago last President W. H. Jehnzen, of the Mich-December 3. Lewis Clark is seated in igan Letter Carriers' Association. With the top buggy at the left and Willis a band ahead in two trucks, this long Lawrence in the open rig. Each wears parade drove ten miles to Climax and a heavy fur overcoat. We took this was met at the monument by the vilpicture for the Michigan Farmer, and lage delegation. The band played nearly all the two thousand rural car- "The Star Spangled Banner" while litriers in the state will see it, along with the Kathryn Brown unveiled the monuthe others, in this and previous issues. ment and raised the small flag to the Probably there is not a single one of top of the staff above the light globes. these carriers who does not deliver We introduced the above-mentioned each week copies of this paper to the speakers, who presented the bronze farmers of on his route. In fact, it is tablets. During and after the cere-because so many of these carriers and mony of dedication moving pictures the farmers of Michigan have repeat- were taken by the Pathe corporation edly asked for the story and pictures operator. Messrs. Clark and Lawrence, of the first R. F. D., and the new me- in their old horse and road cart rigs, morial monument, that we have writ- with mail pouches over their shoulten this complete illustrated story for ders, started out from the old post office and drove slowly past the monument, The first picture also shows the old just as they did twenty years before, Ide Building back of the monument, while the picture machine on a high one of the oldest in the village. The platform recorded the scene. (Later exact center of the monument base on this film was shown in the leading (the right angle of the iron sewer pipe theaters in every large city in the

vitrified clay section corner post set Then the parade was led by the band down by Frank Hodgman many years a few rods further to the large and fine ago when he was county surveyor. The school grove. A large platform and old parchment deed of the quarter-sec- hundreds of chairs and seats had been



Helena, O. Lewis Clark and Willis Lawrence about to Start Over the Old Routes.

provided. Over two hours were spent listening to music and addresses by United States Senator Chas. E. Town send, Congressman J. M. C. Smith, Lieut.-Governor Dickinson, President Frank S. Kedzie, M. A. C., Master J. C. Ketcham, Mrs. W. H Wait, State Highway Commissioner, Frank F. Rodgers, President W. H. Jehnzen, and

Officers of the Michigan Rural Letter Carriers' Association present were Rex Anthony, of Ada; George Smith, of Kalamazoo; F. A. Butler, of Chale voix; John Brinkman, Holland; George Fleury, Monroe; Mrs. Sylvia L. Me-Millen, Greenville. Mr. Butler has been secretary for several years. Mrs. McMillen was the only woman dele-sate and had carried mail on her route out of Greenville for fourteen years.

The 1919 convention of the Association will be held in Ionio sometime in July. We have attended a number of the annual meetings during the last twenty years, and hope to be present at the next one and take pictures of the officers and delegates for the Michigan Farmer. The last meeting was held in Springport, the home of Ard Ludlow, one of the promnient rural carriers of the state. The rural carriers of Michigan have carried millions of copies of the Michigan Farmer on the more than two thousand routes of both peninsulas. But history has recorded the fact that the very first copies of the Michigan Farmer ever punched into a rural mail box were handled by Lewis Clark and Willis Lawrence on the Climax original route on December 7, 1886.

### THREE EASTERS.

BY M. B. RANDOLPH. Eastern Morn; and Harold stood His angry heel in the ground; The cuckoo's song came from the

And the grass was green around; But his brow was dark with jealous wrath

As he mused on his bridal day: She loves me not, he said, and my path

Lies over the ocean gray;
Oh, cursed be this Christian faith
That has stol'n her heart away.
She loves the bells that call to prayer
And the anthems that they sing;
I love the wind that leaps from its lair,
The tempest on its wing.

The tempest on its wing;
She loves the still cathedral nave,
The altar and the vow.
I love my ship that dares the wave
The raven at her prow.

My faith is the faith of the bold Vik-

ing,
And I pledge my word on Odin's ring,
I'm off for the wild wars now.
Valhalla's halls are fair and wide,
And I fall in the deadly fray,
I'll go where the bright valkeyrie bide,
And dwell with them for aye.

She loves me not, again he said, She loves the childish Word That tells of One whose blood was shed

They call the risen Lord; Priests for women and prayers for the But men for the sea and the sword!

Easter Morn, a year and a day; Sweet is the Northland's breath; Fair Ethel takes the altar's way, The pallid bride of Death. Harold, home from the stormy main, Leans on his shield to weep: The cuckoo's song is a haunting pain, O, fairest of all that I have slain. Awake! awake from thy sleep-

Eastern Morn, and from the grove Comes the cuckoo's song of love; Welcome now the spring refrain
Shorn of grief and haunting pain;
The skies are blue, the earth is rife
With breath of budding things;
Harold thrills with strange new life
And his free-boin spirit sings:
Ocean rovers, long adleu-Ocean rovers, long adleu-Spoil and plunder call for you, The raven's sign is naught to me, I reck not loss or victory.

My sword and shield hang side by side,
My ship rests at the pier;
Heaven's halls are fair and wide
And Ethel waits me there.

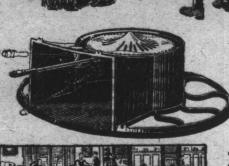
He seeks the place where prayers are

said.

He listens to the Word

That tells of One whose blood was shed.

He owns the risen Lord-





The Home

Make Warm Friends

Why Does a Bonfire **Burn Without Smoke?** 

HE next time you build a bonfire watch it burn from the outer edges and over the top. It burns without smoke until you throw something on that chokes the flame. Then smoke rolls up in clouds. But as long as the flames are unhampered there is no smoke.

The fire in the HOLLAND Furnace burns like the free-burning bonfire—from the sides and over the top. The fuel is thrown to the outer edges by the cone center grate. Air is mixed with the soot and gases, so they burn instead of escaping up the chimney in smoke. You get all the heat units out of the fuel—not just in the center of the firepot but right out against the walls—which means 100% heat radiation.

The Furnace With the Cone Center Grate

Over half the homes in Holland, Michigan, are heated with HOLLAND Furnaces. That shows how HOLLANDS are used where people know them best.

This HOLLAND cone center grate is the easiest grate in the world to operate. It rests on a center pivot; operates with a swinging, tilting motion, breaks up the clinkers, and keeps the fire fresh near the outer walls of the firepot. Burns any kind of fuel.

HOLLAND Furnaces are built without bolts and with less joints than any other furnace made.

Every HOLLAND Furnace is backed with a permanent guarantee covering all material and workmanship. HOLLAND Furnaces are sold at low cost because of HOLLAND simple construction and our economical marketing methods.

# Pipe or Pipeless

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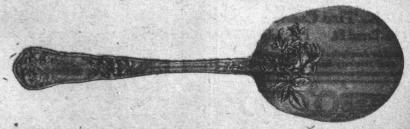
H. F. COX CO. Grand Rapids, Michigan

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# Beyond the Frontier"

would be quite happy."

"They have proven dangerous?"

savage attack."

"I have heard there are a thousand Iroquois in the valley."

would have driven the vermin out be- myself to save him. fore this, for 'tis said they fight well I felt no shame at this acknowledgewith white leaders."

bar, and sank down before the fire on od of escape. even the life of Rene de Artigny.

aware of fatigue, or feeling any sense almost touch it with my hand. him, mocking his efforts, and making schemes, and plans of vengeance? light of his endeavors. It had been I opened the single window and

perished.

been for the moment too dazed for ex- had been in our boat. pression. Before De Baugis he dare As I stood staring at it, I remembervenge-nothing would satisfy him ex- canoe, gallantry of De Tonty, and of De Bau- glimpse of the contents. gis for protection. No, he would try threats, entreaties, slyness, cajolery, but his real weapon to overcome my opposition would be De Artigny. And there he possessed power.

"Monsieur de Baugis has the privi- present them, would without doubt, lege of Sieur de la Salle's quarters," he condemn the younger man. He had no answered, eager to explain, "and be- defense to offer, except his own assersides brought with him many comforts tion of innocence. Even if I told what of his own. But for the Iroquois we I knew it would only strengthen the chain of circumstances, and make his guilt appear clearer.

De Tonty would be his friend, faith-"Not to us within the fort. A few be Tonty would be his friend, faithwhite men were surprised without and in the institute of De Poursia and the killed, but, except for shortness of pro- in the justice of De Baugis, yet the visions and powder and ball, we are facts of the case could not be ignored safe enough here. Tomorrow you will —and these, unexplained, tipped with see how impregnable is the Rock from the venom of Cassion's hatred, were he was helpless to aid himself; if he was to be saved, I must save him. How? There was but one possible "Ay, and possibly more, and we are way-discovery of proof that some othbut a handful in defense, yet their only er committed the crime. I faced the approach is along that path you came situation hopelessly, confessing franktonight. The cowardly Illini fled-down ly to myself that I loved the man acthe river; had they remained here we cused; that I would willingly sacrifice

with white leaders." ment, and in my heart there was no I made no reply, and the man dis-shadow of regret. Yet I sat there stunappeared into the darkness, closing the ned, helpless, gazing with heavy eyes heavy door behind him, and leaving me into the fire, unable to determine upon alone. I made it secure with an oaken a course of action, or devise any meth-

a great shaggy bear skin. I was alone Unable longer to remain quiet, I got at last, safe from immediate danger, to my feet, and my eyes surveyed the able to think of the strange conditions room. So immersed in thought I had surrounding me, and plan for the fu- not before really noted my surroundture. The seriousness of the situa- ings, but now I glanced about, actuattion I realized clearly, and also the ed by a vague curiosity. The hut confact that all depended on my action- tained two rooms, the walls of squared logs, partially concealed by the skins I sat staring into the fire, no longer of wild animals, the roof so low I could

of sleepiness. The thick log walls of A table and two chairs, rudely made the cabin shut out all noise; I was con- with axe and knife, comprised the enscious of a sense of security, of pro-tire furniture, but a small mirror, untection, and yet comprehended clearly framed, hung suspended against the what the new day would bring. I farther wall. I glanced at my reflecshould have to face Cassion, and in tion in the glass, surprised to learn what spirit could I meet him best? how little change the weeks had made Thus far I had been fortuante in escap- in my appearance. It was still the face ing his denunciation, but I realized the of a girl which gazed back at me, with reason which had compelled his sil- clear, wide-open eyes, and cheeks ence-pride, the fear of ridicule, had flushed in the firelight. Strange to say sealed his lips. I was legally his wife, the very sight of my youthfulness was given to him by Holy Church, yet for a disappointment and brought with it weeks, months, during all our long wil- doubt. How could I fight these men? derness journey, I had held aloof from How could I hope to win against their

maddening, no doubt, and rendered leaned out, grateful for the fresh air worse by his growing jealousy of De blowing against my face, but unable to perceive the scene below shrouded in Then I had vanished, supposedly darkness. Far away, down the valley, drowned in the great lake. He had was the red glow of a fire, its flame sought me vainly along the shore, and reflecting over the surface of the river. finally turned away, convinced of my I knew I stared down into a great void, death, and that De Artigny had also but could hear no sound except a faint gurgle of water directly beneath. I Once at the fort, companioning with closed the window shutter, and, urged De Baugis, and with no one to deny the by some impulse, crossed over to the truth of his words, his very nature door leading to the other apartment. would compel him to boast of his mar- It was a sleeping room, scarcely more riage to Adele la Chesnayne. No doubt than a large closet, with garments he had told many a vivid tale of hap- hanging on pegs against the logs, and piness since we left Quebec. Ay, not two rude bunks opposite the door. But only had he thus boasted of conquests the thing which captured my eyes was over me, but he had openly charged a bag of brown leather lying on the De Artigny with murder, feeling safe floor at the head of one of the bunksenough in the belief that we were both a shapeless bag, having no distinctive dead. And now when we appeared be- mark about it, and yet which I instantfore him alive and together, he had ly recognized—since we left Quebec it

not confess the truth, yet this very fact ed the words of De Baugis, "your huswould only leave him the more fur. band has been my guest." Ay, that ious. And I knew instinctively the was it—this had been Cassion's quarcourse the man would pursue. His one ters since his arrival, and this was his thought, his one purpose, would be re- bag, the one he kept beside him in the s private property. My heart cept the death of De Artigny. Person. beat wildly in the excitement of disally I had little to fear; I knew his covery, yet there was no hesitation; incowardice, and that he would never stantly I was upon my knees tugging venture to use physical force with me. at the straps. They yielded easily, and Even if he did I could rely upon the I forced the leather aside, gaining a

CHAPTER XXVII. I Send for De Tonty.

DISCOVERED nothing but clothes at first moccasins, and numerous undergarments-together with a I felt in no way deceived as to this. uniform, evidently new, and quite gor-The ugly facts, as Cassion was able to geous. The removal of these, however, revealed a pocket in the leather side securely tastened, and on opening this with trembling fingers, a number of papers were disclosed.

Scarcely venturing to breathe, hardly knowing what I hoped to find, I drew these forth, and glanced hastily at them. Surely the man would bear nothing unimportant with him on such a journey; these must be papers of value, for I had noted with what care he had guarded the bag all the way. Yet at first I discovered nothing to reward my search—there was a package of letters, carefully bound with a strong cord, a commission from La Barre, creating Cassion a Major of Infantry. a number of receipts issued in Montreal, a list of goods purchased at St. Ignace, and a roster of men composing the expedition.

At last from one corner of the pocket, I drew forth a number of closely written pages, evidently the Governor's instructions. They were traced in se fine a hand that I was obliged to return beside the fire to decipher their contents. They were written in detail, largely concerned with matters of routine, especially referring to relations with the garrison of the fort, and Cassion's authority over De Baugis, but the closing paragraph had evidently been added later, and had personal in-terest. It read: "Use your discretion as to De Artigny, but violence will hardly be safe; he is thought too well of by La Salle, and that fox may get Louis' ear again. We had best be cautious. Chevet, however, has no friends, and, I am told, possesses a list of the Le Chesnayne property, and other documents which had best be destroyed. Do not fail in this, nor fear results. We have gone too far to hesitate now."

I took this package, and thrust it into my breast. It was not much, and yet it might prove the one needed link. I ran through the packet of letters, but they apparently had no bearing on the case. Several were from women; others from officers, mere gossipy epistles of camp and field. Only one was from La Barre, and that contained nothing of importance, except the writer urged Cassion to postpone marriage until his return from the west, adding, "there is no suspsicion, and I can easily keep things quiet until then."

Assured that I had overlooked nothing, I thrust the various articles back, restrapped the bag, and returned to the outer room. As I paused before the fire, someone rapped at the door. I stood erect, my fingers gripping the pistol which I still retained. Again the raps sounded, clearly enough defined in the night, yet not violent.

"Who is there?" I asked.

"Your husband, my dear—Francois Cassion."

"But why do you come? It was the pledge of De Baugis that I was to be left here alone."

"A fair pledge enough, although I was not consulted. From the look of your eyes little difference if I had been. You are as sweet in disposition as ever, my dear; yet never mind that—we'll soon settle our case now, I warrant. Meanwhile I am content to wait until my time comes. "Tis not you I seek tonight, but my dressing case."

"Your dressing case?"
"Ay, you know it well, a brown leather bag I bore with me during our journey."

"And where is it, Monsieur?"

"Beneath the bunk in the sleeping room. Pass it out to me, and I will ask no more."

"'Twill be safer if you keep your word," I said quietly, "for I still carry Hugo Chevet's pistol, and know how to use it. Draw away from the door, Monsieur, and I will thrust out the bag."

I lowered the bar, opening the door barely wide enough to permit the bag's passsage. The light from the fire gleamed on the barrel of the pistol held in my hand. It was the work of an in-



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THE SELF-OILING WINDWILL half the

stant, and I saw nothing of Cassion, savage cruelty. Far away, well beyond scornfully.

he said spitefully, "but tomorrow I down to the stream, I could perceive play my hand. I thank you for the black heaps of ashes, and here and bag, as it contains my commission. By there spirals of smoke, the only visivirtue of it I shall assume command of ble symbols of destruction. A haze hid this Fort St. Louis, and I know how to the distant hills, giving to them a purdeal with murderers. I congratulate ple tinge, fike a frame encircling the you on your lover, Madame—and good picture. It was all so soft in coloring

trembling in every limb. It was not Iroquois, and that this valley was even personal fear, nor did I in my heart now being swept and harried by those resent the insult of his last words. De wild raiders of the woods. Artigny was my lover, not in mere lip service, but in fact. I was not asham- as I stood there gazing in breathless ed, but proud, to know this was true. fascination, a sudden step on the floor The only thing of which I was asham-caused me to turn in alarm. My eyes ed was my relationship with Cassion; encountered those of De Tonty, who and my only thought now was how that stood hat in hand. relationship could be ended, and De Artigny's life saved. The paper I had politely. "In all my travels I have found was indeed of value, yet I realized it alone was not enough to offset port by his own evidence and that of it be true the savages hold the valley?" his men. This mere suggestion in La Barre's handwriting meant nothing un- smoke still shows, dwelt the Kalkasless we could discover also in Cassion's kias. Not a lodge is left, and the bodpossession the documents taken from ies of their dead strew the ground. Chevet. And these, beyond doubt, had Along those meadows three weeks been destroyed. Over and over again since, there were the happy villages of in my mind I turned these thoughts, twelve tribes of peaceful Indians; tobut only to grow more confused and day those who yet live are fleeing for uncertain. All the powers of hate were their lives." arrayed against us, and, I felt helpless and alone.

Without speaking he turned to been different." leave the room, but I suddenly felt courage to address him.

M. de Tonty."

bear to your master a message?"

"Perhaps, Madame," his tone some-Monsieur Cassion?"

"Do not hesitate because of that," I stood his meaning. "While it is true will tell me nothing, I am legally the wife of Francois Cashave you ask M. de Tonty to confer story of our journey?" with me."

"Yes, Madame."

You know him well?"

endeavor, and finally crossed to the window, opened the heavy wooden and I gazed down from the very edge Louisof the vast rock into the wide valley.

but, as the door closed, he laughed rifle shot, two loaded canoes appeared, skimming the surface of the river. Be-"Tis your game tonight, Madame," youd these, where the meadows swept my mind could not grasp the fact that I dropped into the nearest seat, we were besieged by warriors of the

I had neglected to bar the door, and

"'Tis a fair view, Madame," he said seen no nobler domain."

"It hath a peaceful look," I answered, the charges which Cassion would sup-still struggling with the memory. "Can

"All too true-see yonder, where the

"And this fort, Monsieur?"

"Safe enough, I think, although no I must have slept finally from sheer one of us can venture ten yards beyond exhaustion, although I made no at the gate. The Rock protects us, Matempt to lie down. It was broad day- dame, yet we are greatly outnumbered, light, when I awoke, aroused by pound- and with no ammunition to waste. ing on the door. To my inquiry a voice 'Twas the surprise of the raid which announced food, and I lowered the bar, left us thus helpless. Could we have permitting an orderly to enter bearing been given time to gather our friendly a tray, which he deposited on the ta- Indians together the story would have

"They are not cowards then?"

"Not with proper leadership. "You were not of our party," I said have seen them fight often since we gravely. "Are you a soldier of M. de invaded this land. 'Tis my thought many of them are hiding now beyond "No, Madame," and he turned facing those hills, and may find some way to me, his countenance a pleasant one reach us. I suspected such an effort 'I am not a soldier at all, but I serve last night, when I sent out the rescue party which brought you in. Ah, that "Ah, I am glad of that. You will reminds me, Madame; you sent for me, did you not?"

"Perhaps, Madame," his tone some- "Yes, M. de Tonty. I can speak what doubtful. "You are the wife of to you frankly? You are the friend of Sieur de Artigny?"

"Faith, I hope I am, Madame, but I hastened to stay, believing I under-know not what has got into the lad-he

"I suspected as much, Monsieur. It sion, my sympathies now are altogeth was for that reason I have sent for er with the Sieur de Artigny. I would you. He has not even told you the

"Ay, as brief as a military reportnot a fact I could not have guessed. "You have served with De Artigny. There is a secret here, which I have not discovered. Why is M. Cassion so "Three years, Madame; twice he wild for the lad's blood, and how came saved my life on the great river. M. there to be trouble between Rene, and de Tonty shall receive your message." the fur trader? Bah! I know the lad I could not eat, although I made the is no murderer, but no one will tell me the facts.'

"Then I will, Monsieur," I said graveshutters, and gazed without. What a ly. "It was because of my belief that marvelous scene that was! Never be. Sieur de Artigny would refuse explanafore had my eyes looked upon so fair tion that I sent for you. The truth a view, and I stood silent, fascinated, need not be concealed; not from you, My window opened to the westward, at least, the commander of Fort St.

"Pardon, Madame, but I am not that. Great tree tops were below, and I had La Salle left me in command with less to lean far out to see the silvery wa- than a dozen men. De Baugis came ters lapping the base of the precipice, later, under commission from La Barre but, a little beyond, the full width of but he also had but a handful of folthe noble stream became visible, deck- lowers. To save quarrel we agreed to ed with islands, and winding here and divide authority, and so got along fairthere between green-clad banks, un- ly well, until M Cassion arrived with til it disappeared in the far distance, his party. Then the odds were alto-The sun touched all with gold; the gether on the other side, and De Bauwide meadows opposite were a vivid gis assumed command by sheer force green, while many of the trees crown- of rifles. 'Twas La Salle's wish that ing the bluffs had already taken on a no resistance be made, but, faith, with rich autumnal coloring. Nor was there the Indians scattered, I had no power. anywhere in all that broad expanse, This morning things have taken a new sign of war or death. It was a scene phase. An hour ago M. Cassion assumof peace, so silent, so beautiful, that I ed command of the garrison by virtue

Governor La Barre, naming him major of Infantry. This gives him rank above Captain de Baugis, and, besides, he bore also a letter authorizing him to take command of all French troops in this valley, if, in his judgment, circumstances rendered it necessary. No doubt he deemed this the proper oc-

"To assure the conviction, and death of De Artigny?" I asked, as he paused. "That is your meaning, Monsieur?"

"I cannot see it otherwise," he answered slowly, "although I hesitate to make so grave a charge in your presence, Madame. Our situation here is scarcely grave enough to warrant his action, for the fort is in no serious danger from the Iroquois. De Baugis, while no friend of mine, is still a fair minded man, and merciful. He cannot be made a tool for any purpose of revenge. This truth Major Cassion has doubtless learned, hence assumes command himself to carry out his plans."

I looked into the soldier's dark clearcut face, feeling a confidence in him, which impelled me to hold out my (Continued next week).

# "By the Way"



OH, FRAGRANT BELLS OF EASTER.

BY RUTH RAYMOND. Oh, fragrant bells of Easter Oh, fragrant bells of Easter
You softly ring at dawn,
In mossy dell and woodland,
By garden bed and lawn,
Where winter's snows have melted
The brooks again are free
To ripple on in gladness
And share your minstrelsy.

Oh, chosen bells of Easter
"Tis yours to bad and bloom
To tell the wondrous story
Of life from out the tomb,
Where war has left its fallows
You lift above the sod
Your loving cups sweet censol Your loving cups, sweet censors That bear the Peace of God.

### THEIR WORRY.

The folks over in Europe are not so much afraid of potatoes going down in April as of their not coming up in May.

It's a wise mother that knows as much as her seventeen-year-old daugh-

### A COMPROMISE.

"Look here, Hiram," said Si, "when are you going to pay me that eight dollars for pasturin' your heifer? I've had her now for about ten weeks."

"Why, Si, that critter ain't worth more than ten dollars."

"Well, suppose I keep her for what you owe me?"

"Not by a jugful! Tell you what I'll do; you keep her two weeks more and you can have her.".

### SOLVE THIS ONE.

"Mother," said little Johnny, "do missionaries go to heaven?"

"Why, of course, dear," his mother replied.

"Do cannibals?"

"No, I'm afraid they don't."

"But, Mother," the little boy insisted, "if a cannibal eats a misisonary he'll have to go, won't he?"

Cousin Bill says: "The crow may be a troublesome bird but he never gets noisy without caws."

# 30% More Wearing Material

Than in Old-Style Tires of Equal Rating

No old-style tire can attempt to run as far or ride with the easy spring of the Uniform Miller Cord. In the first place the Miller is made of the finest materials and contains more of them than any ordinary tire of equal-rated size. The Miller is also heavier and thicker.

For proof behold the picture below, drawn from an actual photograph. Both tires are rated 30 by  $3\frac{1}{2}$  inches, but the Miller is bigger round and bigger through. It gives you 30 per cent more actual wearing material and over 11 per cent more air capacity.

Height of Miller 30-in. Cord

Buoyant, Elastic

The Miller is built of thousands of cable cords, floated in new live rubber, layer on layer. These tires are the latest, most improved type. They give and take as they roll on the rough of the road, protecting the car or truck from destructive vibration. They are the longest wearing, the lowest in cost per mile.

Men who equip with Miller Cords are amazed at the ease and comfort the old car gives.

### Geared-to-the-Road

The famous Geared-to-the-Road tread has many caterpillar feet that engage the ground like cogs, giving positive traction and safety in slippery weather.

Like all Miller Tires, these Cords are uniform.

Casing after casing they give long-distance mileage, because every tire is built the same. And built to a

Don't fail to get a set of Miller Cords. They make any car look handsomer and bigger.

The Miller Rubber Co. F61 Akron, Ohio
Makers of Miller Bed and Gray
Inner Tubes-the Team-Mates
of Uniform TiresAlso Miller Surgeons I am penalized if one comes back" To Dealers: Your territory may be open-WRITE.



UNITED S STATES DISC SEPARATOR

# World's Record Skimming in Your Dairy

Most world's records are things to read about only. The United States Cream Separator is the one exception.

You can make a world's record every day in close skimming by using the world's record cream separator.

Besides this the United States Disc Separator has constantly introduced new mechanical achievements that mean easy cleaning, easy running and long life. Seven exclusive patents on such refinements have been granted within two years.

Ask your dealer to demonstrate.

Vermont Farm Machine Company BELLOWS FALLS, VT.

U. S. Farm Lighting Plants and Engines Watch your newspaper for this advertisement telling where you can see the linited States Separator. Agents and dealers wanted in some localities.

# Save Money on Newspapers

Many rural readers have bought their daily and the Michigan Farmer in combination at a price that saved

The Michigan Farmer---One Year Your Favorile Daily --- One Year

On rural routes only at prices specified below in "Our Price" column.

Regular Our Price. Price. Free Press, Detroit......\$5.00 Journal, Detroit ..... 5.00 Times, Detroit ..... 4.00 Herald, Grand Rapids .... 5.00 Press, Grand Rapids ..... 5.00 News, Grand Rapids ..... 5.00 News-Courier, Saginaw ... 5.00 4.50 News-Statesman, Marshall. 4.00 Journal, Flint ..... 5.00 4.50 Gazette, Kalamazoo ..... 5.00 News, Cadillac ..... 4.00 4.50 Enquirer, Battle Creek .... 5.00 3.50 Evening News, Monroe.... 4.00 Pioneer, Big Rapids ..... 4.00 3.50 Blade, Toledo ..... 5.00 4.50 News-Bee, Toledo ..... 5.00

The above combinations give you an average saving of Fifty Cents.

The Michigan Farmer, Detroit

# The Tongue Test

Put a little alum on the end of your tongue and you will have the reason why alum baking powder should not be used in food.

England and France forbid the sale of baking powder containing alum.

You can tell whether baking powder contains alum by reading the label.

# ROYAL **Baking Powder**

Absolutely Pure

Contains No Alum-Leaves No Bitter Taste in the Food

# Stop and Think!

Why are Americans using such great quantities of

# POSTUM CEREAL

Health value, wonderful flavor and practical economy make Postum the ideal American table drink.

Boil just like coffee-

(15 minutes after boiling begins)

-but remember that, unlike coffee. this beverage contains no drugs to upset stomach, heart or nerves. It is absolutely pure and without harm, made from the best of roasted wheat and wholesome molasses.

You can get the original Postum at grocers. Two sizes—

Usually sold at 15c and 25c

# Woman's Interests

# Rural Clubs for Women



Demonstration in the Planting of Shrubs for the Home Grounds.

around in foolish, meaningless circles changed to meet local conditions. accomplishing nothing.

are playing on the reconstruction stage meetings, it occurs to me that the readin this state. There are at present er should have a clear idea of the esnine progressive groups of ladies living sentials of a good program. One club in the country districts who for the realized that with united effort and most part are studying their commu-through the assistance of the home nity interests with the aim of improv- demonstration agent and the county ing their living conditions.

have appreciated otherwise. The sol-money, so their year's program includdiers have been kept more or less hap- ed many talks and some demonstrapy through the community huts where tions to help in gaining their goal. all manner of inducements were evolv- They are as a whole community, breeded with which to keep up the morale ing better poultry. A second club deof the army. We have an army of cided to work for improvements in the workers, and among the groups of district schools, and have been sucworkers we have the farm women, cessful in placing equipment for hot tage and convenience that they may great joy of the children. get the most good from life, to keep up the morale of the country.

The purpose of the Rural Clubs is to gram was prepared: teach home economics, promote socia-The clubs meet twice a month handing and blanket stitch. to carry out the programs outlined in their year books. One of the purposes of the clubs is to teach its members how to make constitutions and by darning dress materials and hosiery. laws, programs, to conduct meetings, both general and committee, in a par-line, feather, coral chain, satin stitch, liamentary way, and to know where to and French knots. secure information for themselves. In other words, to become efficient com- and apron. munity leaders. The constitution and

ECONSTRUCTION problems are by-laws would vary for different groups. looming up so big and formidable It would be well for those desiring to as to leave us aghast at the gi- organize a club to write the Division gantic work before us. Unless we are of Extension of Home Demonstration careful, we shall find ourselves dissi- Work, East Lansing, for copies of conpating our strength and staggering stitution and by-laws. These can be

Since the success of women's club Deborah requested me to write up work will depend almost entirely upon the part the rather unique Rural Clubs the programs presented at the regular agricultural agent they could learn The war has taught us many facts much about poultry raising to increase about living which we should never production and earn more spending who should have every possible advan-lunches in two district schools, to the

Another club discovered that they needed lessons in sewing, so this pro-

April 5.—Simple stitches, basting, bility, and advance community inter- running, hemming, combination, over-

April 19.—Buttonholes.

May 3.—Patches, hemmed, overhanded and flannel; mending table linen;

May 17.—Embroidery stitches: Out-

May 31.—Cutting kimona, nightgown

June 14.—Making of undergarments.



Members of the Fabius Seasonal Club.

June 28.—The use of copyrighted patterns; cutting and fitting a skirt.

July 12.—Cutting and fitting a waist. July 26.—Finishing garments. August 9.-Selection of corsets and underwear, by expert saleswoman.

August 23 .- The principles of color, rhythm and harmony applied to dress. Design dress or select from fashion

Sept. 6.—Clothing for boys and girls from babyhood to school age; dresses for the girl from six to thirteen; suitable wardrobe for the high-school girl.

The following schedule of work for one of the state's most active and progressive clubs will show more clearly the essentials of a good program than any suggestions that might be offered. This schedule covers eleven months'

February 1-Poultry.

Chicken diseases; feed for young chickens; poultry raising versus egg production; the essentials of a good poultry house; roll call; one-minute talks on "My experience with poultry."

February 15.

Evening-Valentine party, arranged for by the entertainment committee.

March 1-Household Management. A simple system for keeping house hold accounts; system in housework; labor-saving methods; home-made conveniences; roll call: "My best labor-

saving devices.' March 15.

Pot-luck supper and social, in charge of committee

March 29-The House.

How can the traditional housecleaning be eliminated? Floors, walls and ceilings with regard to suitability and durability; principles of art and design applied to house furnishings; roll-call: "My experience with floor or wall cov-

April 12-The Orchard and Garden.

Beautifying the home grounds; methods of making and care of hot-beds; some common diseases and insect pests of garden and orchard; debate, "Resolved that it is cheaper to buy fruit than to raise it." Roll-call: "Varieties of vegetables and flowers I have grown successfully."

May 10-Poultry.

Marketing poultry; the community egg circle; profits in poultry; methods of preserving eggs for winter use; roll "My favorite breed of poultry and why I like it."

June 14-Food Preservation.

Demonstration of canning of fruits and vegetables by the cold-pack method; jelly making; discussion: "Difficulties in canning or jelly making." July 12-Planning and Serving Meals.

Demonstration in table setting and serving; the well planned meal; suitable food for children; food for the aged.

August 9.

Annual picnic in charge of the com

tive? Cooperation between parents and teacher, as the teacher sees it; cooperation between parents and teacher as the parent sees it; roll call: "An incident of my own school days."

October 14.

Modern Farm Home Conveniences. Demonstration: A nome which ha modern conveniences; roll call: "Some inconvenience in my house."

November 8-Clothing.

Home-made versus ready-made clothing; what constitutes an adequate wardrobe for a farm woman? Materials and designs for school girls' dresses; roll call: "Ways of making over clothing."

# The Joyous Welcome Home

The day had been a tough one. Everything seemed to go wrong.

Under such conditions a man does not lay aside his work with any degree of satisfaction.

On his way home his mind is going over the difficulties encountered and he finds himself dissatisfied with pretty nearly everything and everybody.

He's got the Blues.

Not so with the family. The youngsters, looking for father, spy him a block or more away and there's a mighty footrace to see who can reach him first.

He sees them comming. The springtime of youth is in their faces, the sunshine of joy in their eyes; there is music in their voices. Daddy's home again!

The good wife's welcome is no less cordial and, better yet, the evening meal is ready, and what bread, such as only

# Lily White

"The flour the best cooks use"

It is tender, and deliciously flavored. The kind that fairly melts in the mouth.

Everything else is proportionately good, and what a change!

The sunshine and Warmth of Home Ties have scattered the doubts and misgivings of every day life.

The Blues have vanished! Father is now in the right mood to enjoy to the fullest the usual after-dinner romp with his little "pals," and regrets that mother tucked them away in their beds so early.

Of course it might have been different!

Supposing the children had been unwell because of having eaten heavy biscuits or soggy pastry for lunch, and the wife out of sorts on account of poor success with baking and a late dinner?

That combination, with father having the blues, would have made a fine setting for a family "rumpus."

Don't take any chances. Always buy LILY WHITE, "The flour the best cooks use," and be assured of thorough baking success and complete harmony.

> VALLEY CITY MILLING COMPANY GRAND RAPIDS, MICHIGAN

### MICHIGAN FARMER PATTERNS.

School lunches; sanitation of school be secured by sending order to Pattern per make our school grounds more attractive? Cooperation between parents



Cut in five Girls' Dress sizes, 4, 6, 8, 10 and 12 years. Size
12 requires 3¾ yards of 44 inch material for the dress with Jacket. The jacket alone will require 11/2 yards.

November 22—Home Life.

The guest in the home; home amusements; books and magazines in the home; Thanksgiving dainties; roll

No. 2757—Girls' Dress. Cut in three sizes, 12, 14 and 16 years. Size 16 will require 4% yards of 36-inch material. Price 10 cents.



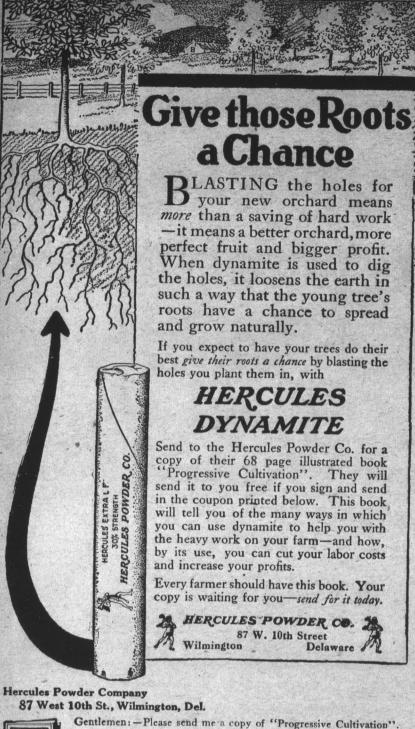
No. 2532—Ladies' "Cover-All" Apron. Cut in four sizes, small 32-34; medium 36-38; large 40-42; extra large 44-46 inches bust measuré. Size medium requires 5½ yards of 36-inch material. Price 10 cents.

No. 2739—Ladies' House Dress. Cut in seven sizes, 34, 36, 38, 40, 42, 44 and 46 inches bust measure. Size 38 requires 7½ yards of 27-inch material. Width of skirt is about 2½ yards at the foot, with plaits drawn out. Price

No. 2435—Ladies' Apron. Cut in four zes: small 32-34; medium 36-38; large 40-42; extra large 44-46 inches, bust measure. A medium size requires 45% yards of 36-inch material. Price 10



No. 2485—Ladies' House Dress. Cut 46 inches bust measure. Size 38 re-in seven sizes, 34, 36, 38, 40, 42, 44 and quires 7¾ yards of 27-inch material. The dress measures about 2% yards at the lower edge. Price 10 cents.



I am interested in dynamite for \_\_\_\_\_

Quality SHIRTS for Recreation and Business Occasions

Your dealer is now showing the newest models and patterns in

ALLMAR

The Patterns are "Vat" Colors-Guaranteed fast. The French Cuffs are Prestwich - fewer launderings, longer wear. Demand the "Quality Kept Up" kind\_ASK for Hallmark.

HALL, HARTWELL & CO., Troy, N.Y. Makers of Slidewell Collars





### SHRP-SHAVR Safety Razor

A thoroughly tested, guaranteed razor. The frame is constructed at the forty-five degree angle, which insures a clean, close cut. This razor will do all any safety razor will do. Easy to take apart and clean. Made in durable silver finish. Extra blades can be purchased at a nominal price. One of the most simple and efficient safety razors made. cient safety razors made.

Sent for two subscriptions, or one subscription and 35 cents.

thankful."

November 29.

Party, in charge of committee. December 6-Health.

because they "tell the story" and may problems.

call: "Something for which I am aid you in forming such a club in your community. If there is a home demonstration agent in your county, get in touch with her for help. Send her a postal card and state your ambition; Some common diseases and how she will respond promptly and give you they can be prevented; the home med-splendid cooperation. We are going icine cabinet; the care of the sick in to gain hearty cooperation between the home; roll call: "A health sug- these rural clubs in a county federation which will work for a more effi-I have given these detailed programs cient solution of county community

# Easter Eggs and Bunnies

By Julia R. Davis

some light on this mystery.

celebration of the reawakening and re- earth and the renewal of life. vivifying of earth after her cheerless winter sleep.

April, the first spring month, was sacred to the goddess Ostara, who golden-haired, flower-crowned, and robed in shining white, attended by clouds of butterflies, flights of swallows, flocks of storks, and troops of hares, floated to earth when the long winter was end-

to endure all the toils and all climates, creation. transformed her into a brisk, quick-

THE question is often asked, why among the iceburgs of the frozen north. the rabbit seems to be responsible Thenceforward the hare, the emblem for the beautifully colored Easter eggs. of fertility, was known as the friend The following explanation may case and messenger of the spring goddess; and in memory of her former existence Centuries before Christianity gave as a bird, the hare once a year at to Easter a spiritual meaning, the an- Easter, lays the gaily colored eggs that cients made it their spring festival in are the symbol of the awakening of

> This is the mythological explanation oft he connection of Easter eggs and bunnies, but there are many other stories telling why the sportive hare is responsible for the bright-hued eggs at

this spring festival.

To the Christian the special significance of Easter lies in its triumphal assertion of the fact of immortality. ed, bringing the spring-time with her. ing of the individual in impassive im-Not the impersonal, unconscious merg-Now it apears from a very ancient, mensity which Buddhism teaches;; not but little known tradition, that the rab- the mere prolongation of physical and bit, or rather the hare, sacred to Os- sensual life which the Koran promises, tara, was originally a bird, very possi- but the true immortality of the spirit, bly the swallow. The goddess finding that nobler part of man which distinher winged messenger was not fitted guishes him infallibly from the rest of

A hope, a trust, a confidence, even in footed little quadruped with long ears, the future life is common to all races a warm furry coat, and no tail to speak of men. It is no reproach, therefore, of, ready and able to summon belated that our Easter day has been identified spring from wherever she might be with the old pagan festival of returnlingering, and to guide her safely even ing spring and resurrected life.

# High Farming on a Big Scale

(Continued from page 611).

ble in keeping the workmen on the operations on a more economic basis.

ticability of the scheme, the owners sold all their holdings to the Saginaw In 1903 the Owosso Sugar Company,

farm in such an out-of-the way place. During the annual floods the land was After improving and operating sev- largely overflowed, which often delayeral hundred acres of the prairie land ed or prevented the spring work, enoriginally acquired, which had cost tailing heavy loss. It became apparent them from four to ten dollars an acre, that much diking was necessary to prefor several years, and proved the prac- vent this handicap to farm operations.

Development of a Big Idea.

Realty Company, composed of Harry attracted by tales of the natural fer-T. and William J. Wickes, Albert M. tility of the muck lands in Saginaw Marshall, Samuel G. Higgins and oth-country, investigated the soil and cliers.. This company, having ample mate conditions and purchased from financial means backed by the enter- the Saginaw Realty Company their enprise of its members, proceeded to ex- tire holdings of marsh lands, amounttend and develop the extensive acreage ing to more than ten thousand acres. and to equip the farm with modern They at once laid their plans on a appliances and tools, thus placing the large scale for the reclamation of the



Main Stone Road Through Center of Prairie Farm.

waste lands, and began to heap up banks of earth in the form of dikes, to hold back the flood waters in the submersible basin near where Swan Creek and Bad River join the Shiawassee.

This is the bottom of the vast Saginaw drainage system, and is the best and the worst land hereabouts. It is the worst because several square miles of it lie only a little more than three feet above the level of Lake Huron, and the best is that from the beginning of time it has been the settling basin of rich alluvium brought down by rivers, from heights of four hundred to eight hundred feet, which flow for nearly one hundred miles through fer-

This pioneer effort in reclaiming the Saginaw marshes was a costly one. The land had to be won from the waters foot by foot, but each acre of land made dry proved so productive that the promoters were lured 'on, and eventually arrived at the conclusion that the value of the land thus improved far exceeded the cost of controlling the flood waters. The diking was done by big dredges starting at the rivers and nosing their way into the land, scooping up the muck to form canals and "borrow ditches," and depositing it along the outside edge of the area to be drained. As the dredges advanced the water flowed in, carrying them along in the channels which afterward were useful in draining off the water from the land. At the lowest point of the area the dike was made twenty feet high, and at other places the average height was seventeen to eighteen feet, while the ditches were about twelve feet deep, with a gradient of three inches to the mile to carry off the waste waters.

When the entire tract was enclosed, and lateral and cross ditches dug and dikes thrown up, the total length of dike was thirty-six miles. Along the top of some of these dikes good roads were laid out and gradually improved to afford easy communication with all parts of the big farm. The main roads are surfaced with stone and oiled to render solid and enduring highways. At the lowest point of the farm, near its northwest corner, where the ditch assumes the size of a canal navigable to scows and motor boats, a pump house was erected. Installed in the building are four centrifugal pumps, which in time of high water lift the excess water from the canal and discharge it into the river beyond. In flood times these pumps work night and day and relieve the farm ditches of one hundred and sixty thousand gallone of water an hour. The dikes hold back the flood waters, the canal and ditches drain off the surplus rainfall on the enclosed lands, and the pumps discharge the excess water into the swift current of the river, thus preserving and rendering the soil fit for cultivation during all the planting and growing season,

### "Mosquito Roads" Lead to Farm.

There are two ways of getting to the Prairie Farm from Saginaw. In the dry seasons one can go direct from the city by way of East street and turning to the right about nine miles from the city limits, or twelve miles from Genessee avenue and the river, drive straight into the farm settlement four he other miles beyond railroad to St. Charles, and a drive of nine and one-half miles over the "Mosquito Road" through swamps to right and left. Once on this road there are few chances of getting off, as wide, deep ditches line it all the way. There are surprises en route, as the road goes gently downward into the heart of the swamp, grass and timber land. Every mile or so billows of land roll up out of the welter of mud, and along these ridges appear prosperous farms, with good houses, big barns, and here and there a silo indicating that dairy farm-



The Gulbransen Entertains and Educates

HILDREN love the music of the Gulbransen. It will keep them quiet for hours, or give them the time of their sweet young lives.

All this without any special effort on your part. Your favorite music will appeal to them. Your taste becomes their taste. They are educated - painlessly - to appreciate good music.

To entertain little tots here are some Mother Goose rhymes put to music; the words on the roll:

Tom, Tom, the Piper's Son Sing a Song of Six Pence Little Bo Peep

Twinkle, Twinkle, Little Star Mary Had a Little Lamb The Story Book Ball

Also Game Song Rolls such as these:

London Bridge Round the Mulberry Bush The Farmer in the Dell The Monkey Man

For children learning to play by hand there is a course of thirty-six Study Rolls. The child learns faster because the roll is always at hand to "play it like teacher does." Duet Rolls play one part, the other to be played by hand. The easy key touch of the Gulbransen is a great help to little hands.

An understanding of finer music—by young or old—can be gained through Historical Rolls and Story Rolls. A description of the composer's idea appears on

the roll like the words of a song. A few: Cavalleria Rusticana
Evening Star, from Tannhauser
Favorite Strains from Faust

Merry Wives of Windson

The Gulbransen dealer has these rolls for you to try. Play them on the Gulbransen yourself at his store. Let the children play to show how easy the pedals work. No effort at all. A creeping baby once played the Gulbransen, as shown in the picture at the left, and gave us the idea for our trade mark.

The Gulbransen is the ideal player for the home with children. Easy to play, easy key-board touch—and playing it won't hurt it. It can even stand abuse.

Our dealer shows the Baby at the Pedals in his window and newspaper advertising. you do not know him, write us for his address and our catalog.

GULBRANSEN-DICKINSON CO. 825 No. Sawyer Avenue, Chicago

(Pronounced Gul-BRAN-sen)

# JLBRANSEN Player-Piano

Gombault's Gaustic Balsa IT HAS NO EQUAL

For -It is penetrating, soothing and healing, and for all old the Sores, Bruises, or Wounds, Felons, Exterior Cancers, Boiles Human Corns and GAUSTIC BADSAM bas Body no equal as

Perfectly Safe Reliable Remedy Sore Throat Chest Cold Backache Sprains Strains Lumbago Diphtheria Sore Lungs Rheumatism all Stiff Joints

Conshill, Ten.—"One bottle Caustie Saicam did my rhounstism more good than \$720.00 paid in doctor shills.

Price \$1.75 per bottle. Sold by druggists, or cent by an express prepaid. Write for Bookles B.

The LAWRENCE-WILLIAMS COMPARY, Cleveland, C.

### Farmer's Rapid Calculator and Veterinary Book

Indispensable to the farmer, valuable to all members of the family. This little book contains veterinary information, interest tables, methods of calculation, weights, measures, dimensions, etc., and a farm record which contains a simple method of keeping record of receipts and expenses of all branches of farm work. Convenient size, 3½x 6½ inches, fits in the pocket, durable cloth binding. A time-saver every farmer should have.

Sent prepaid for two subscriptions or for one subscription and 15 cents additional.



# Cash for Your Spare Time

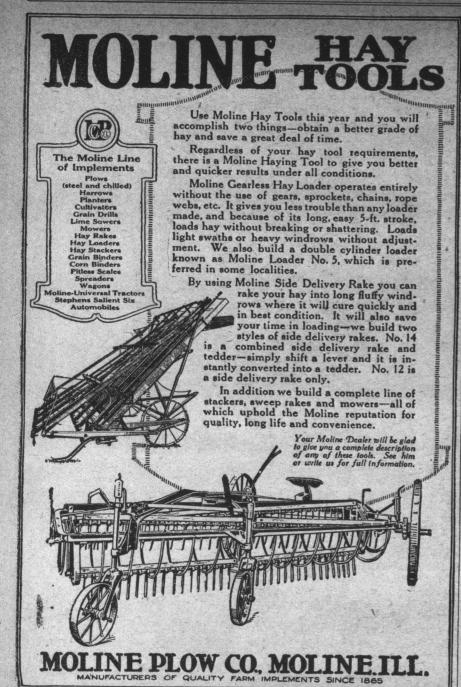
Put your spare time to pleasant and profitable use by cooperating with us in the securing of Michigan Farmer subscriptions.

A good way to get money for Thrift Stamps, Liberty Bonds, or to help in the high cost of living. From two to three dollars a week can be earned with little effort.

Details furnished upon request.

THE MICHIGAN FARMER

Detroit, Mich.



POULTRY

# CHICKS CHICKS CHICKS

350,000 FOR 1919

By Parcel Post Prepaid. Delivered To Your Door. Guarantee Live Delivery.



Strong chicks from pure bred farm stock that are the farm stock that are the farm stock that are stock that are the farm stock that are stock that are the farm stock that are the farm stock that are stock that are the farm stock that are the farm

**HUBER'S RELIABLE HATCHERY** EAST HIGH ST., FOSTORIA, OHIO.

## HOMESTEAD FARMS

A Federation of Interests

new Catalog of Pure Breed Practical Poultry is ready. Some breeds are sold out for a number eeks. Orders for chicks are still being booked for

arred and White Rocks, ose and Single Comb Rhode Island Reds. hite Wyandottes. ngle Comb Black Minorcas ngle and Rose Comb White Leghorns, ngle and Rose Comb Brown Leghorns. ngle and Rose Comb Brown Leghorns.

Eggs from any of the foregoing breeds for settings or in quantities for incubators. Special price for 500 to 1000 eggs during season; and on eggs for broilers. Eggs from White Pekin Ducks, and from Gray Toulouse Geese.

Hares-Belgians and Flemish Giants.

Orders should be sent now, in advance, so that your order will not be crowded out by orders that have been sent earlier. Send for catalog.

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tries being developed.

the southwest corner of the farm, cul- east of the Mississippi. tivated fields of vast extent burst into view. He turns north on the hard, ahead is Alicia village, the largest setclubhouse, a general store and an assembly hall. Across the road are several large barns, cattle sheds, wagon, machinery and tool houses and a large grain elevator. This structure and the mint distillery a little farther on, are situated close to the spur track which Trunk Railway, six miles eastward.

A Big Labor Force Required.

During the rush of summer work three hundred to three hundred and out. fifty farmers and laborers are employed on the farm, and in winter about seventy-five men (those with families who live there the year around) are kept busy attending the stock, repairing wagons and harness, and getting all equipment in readiness for the spring and summer campaigns.

A Variety of Crops.

Driving along the central dike northward to the center of the farm, thence westerly about two miles brings the visitor to the lowest point of land, to which all the water in the ditches flows farm of more than ten thousand acres hundred. will be brought under the plow, this In all the varied work of planting,

ing and cattle raising are rural indus- Belgian draft horses now falls to mechanical power. The Prairie Farm is As the visitor emerges from the believed to be the largest farm project wood patch, near the farm entrance at under one ownership and management

A Bit of Holland in Michigan.

oiled road which traverses the chest of county is under water, when the Prai-A times when all this section of the a low dike bisecting the farm. A mile rie Farm reposes within its earthen walls like a beleagured country, it retlement for miles around. Here are minds one very strongly of a section four score yellow, framed cottages, of Holland set down here in Michigan. housing workmen's families, a large Then the flood waters rise to a height of seventeen feet on the outside of the earth dikes, and there are watchful days and nights for the male population. The dikes have to be constantly patrolled and threatened leaks and breaks immediately repaired. There are native foes, too, to the dike, the connects the farm with the Grand muskrat and the woodchuck. The latter is the one dreaded as he burrows deep enough to cause much damage, and men are employed to hunt them

> Here and there in the dark brown field gray patches are noticed. These are the clay subsoil, touched by the motor-driven plows and being worked up into the lighter surface soil-much to its betterment it is claimed. Only a little under the muck soil is a clay bed as dry as bone dust. There are driven wells, as also tiled wells, and here and there excellent water is found at a depth of about thirty feet.

An Isolated and Monotonous Life.

The inhabitants of the big farm lead and where it is pumped out. Looking an isolated and monotonous life, espeback from the top of the dike one has cially in flood times when communicaa clear view of the beet and mint tion with the outside world is almost fields. Beets and peppermint, with entirely cut off. Exit by boats in the corn and rye, are the principal crops swirling currents of swollen streams grown in great quantities on extended is difficult and dangerous. Still the acreage. Cabbage is also a large crop living conditions are steadily improvand, late in summer when the shipping ing, and the farm dwellers have the season is on, scores of teams may be conveniences of electric light and runseen hauling huge loads from the fields ning water in their homes, supplied to the loading track in Alicia. In 1918 free by the farm's own generating and there were seven thousand acres of water plant, and also the use of telerich muck land under cultivation, and phones. There is also a regular posthe productive area is constantly be. tal service to Alicia village, whose ing increased. Eventually the entire summer population is seven or eight

work being aided by the government cultivating and harvesting the extenengineering scheme outlined above, sive crops, about three hundred head All the plowing is done by gang plows of heavy Belgian draft horses are redrawn by steam and motor tractors, quired; and in summer about seventytwelve plows to the gang; and much five teams, some of which are threeother heavy work previously done by horse teams, are in constant use.

# Early Hatching Profitable

MANY of the discouragements eration. For example, a farmer has arrive to help cancel the bills. A bal- and they will produce eggs, If they turity necessary for egg production horn hatching than May. The heavier petites but do not lay.

On the farm much of the profit with that means early hatching. poultry depends upon the way the The weather has an important influbirds use their range to gather insects ence on the growth of chicks. They and weed seeds. In the spring when seem to do better in the early spring the insect life is starting, the young when some of the days are cool than in nullets should be l them through the grass and obtain the uniformly hot and dry. It often seems animal food which makes rapid growth that chicks should not be hatched earin young poultry. Early hatching is ly when there is a danger of cold rains necessary to have birds large enough and possibly snows, and yet we have to range on the first fine days of the evidence that these young chicks spring. This season which is so valu- thrive if they are given the proper atable in growing poultry should not be tention in feeding and brooding

ed are a much more important consid- or half cooked, the vitality of the

with poultry come during the poultry houses for two hundred pullets winter, and especially during the early in addition to the mature hens which winter when farmers try to make their he keeps over for broilers. If those pullets lay, and fail. The feed bills pullets are March and April hatched increase and the egg returns do not birds he can mature them in the fall anced ration may be used and the best are May, June and July birds, he will systems of poultry management adopt- have to feed them very carefully to ed and yet good results do not follow, keep them from being stunted when Where is the mistake? It is in the the cold days of fall arrive. There is spring at hatching time. The pullets one exception. May hatched Leghorns are not hatched early enough and in often do very well but many farmers the fall they have not reached the ma- find that even April is better for Legand consequently they have good ap- breeds usually found on the general farm need eight months to mature and

ummer when the weather may be

We have found that overheating is We often heard of the value of early fully as dangerous to chicks as chillbroilers which bring the best prices on ing. In the use of the incubator, it will the market, and that is true. However, be found that the eggs can cool with the early pullets which are to be sav- no danger but if they are overheated

chicks is severely injured. Thus the chicks are in as much danger in the summer as in the cold weather of

When breeding stock is sold in the fall it must have obtained a fair size in order to appeal to the buyer. Cockerels that are sold for breeders are the most desirable if they are early hatched birds. They reach maturity and make better birds to mate with the breeding hens in the spring. Early hatching requires some care and early brooding is not the work for careless workmen but hatching and brooding require skill and thoughtfulness at all seasons. It follows that there are many important reasons in favor of early hatching and nothing against it.

### CABARET FOR CHICKENS.

PULLETS dining until nine o'clock every night, even in the smallest towns and on farms, and outlaying the most seasoned hens, electric or other lights in every coop, summer prices for eggs in winter, and better health for chickens were predictions for the immediate future in the poultry world made by Professor James E. Rice, of the Department of Poultry Husbandry. Cornell University, at the sectional meeting of the New York State Federation of Poultry Associations.

Professor Rice declared that tests carried on at Cornell during a period of forty-eight weeks, of which the most accurate records of the laying capacity of more than two hundred hens and pullets and the effect of lights on the egg production were kept, has proved beyond doubt that lights in the chicken coops have a direct effect on the production of eggs. The coops were kept lighted until nine o'clock every night throughout the test, and the egg totals showed that one hundred hens and pullets in the lighted chicken house produced 1.35 2-10 dozen more eggs than the chickens in the unlighted coops that went to bed when the sun went down. "Early to bed doesn't get a regular chicken anything," was the chief fact demonstrated.

The reason for the increased production of eggs in lighted coops was given by Professor Rice as being that the hens had more time in which to eat. There was no long wait between supper and breakfast. The same amount of feed was required by the busy layers as by the hens that were not laying, however, he said, but the hens who had the artificially long day "Fletcherized" their chicken feed and did not get up in the morning "played out" and ravenous.

In money, wholesale prices, the increased dozens of eggs in the lighted coop amounted to \$71.88. In each chicken house the hundred layers were fifty-fifty pullets and older hens and the pullets beat the seasoned layers in number of eggs produced. The light had no other effect on the poultry except that they maintained somewhat better health.

The average increase in production of eggs for hens in lighted coops was placed at "one dozen or more" per year by Professor Rice. The poultryman has absolute control over the egg production, as was discovered at Cornell, by turning the light switch. Laying pullets quit laying when the lights were turned off for a period and began again when the lights went on. The strike for late suppers was actually made by twenty-five pullets.

Rice explained that the reason for so much profit was made on the eggs was because the hens continued laying through the late autumn and early winter when the price of eggs is highest. He said that all the light is for is to keep the hen at her feeding. Observing that the chicken is native to tropical countries where they have a twelve-hour day, he said the long nights, just at the beginning of winter had a tendency to exhaust the vitality of the hens.



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This Case 10-20 Kerosene Tractor

HE country over, there is consistent and continuous applause rendered the Case 10-20 Kerosene Tractor.

In all the written and spoken recommendations, there always stands out prominently the comment that its performance and economy are unbeatable.

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POULTRY

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English Barron S. C. White Leghern chicks at \$14.00 per 100; \$85 per 500 immediate special delivery. 6,000 chicks each week. Guarantee safe delivery full count of lively sturdy quality chicks that will mature into most profitable and persisent layers. Hatching eggs \$5 per 100. Write us your wants and send for valuable catalogue gives rearing & feeding methods. DEVRIES LEGHTORN FARM, Zeeland, Mich.

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Hatching eggs Plymouth Rocks, all varieties and Anconas. Illustrated catalog 3 Sheridan Poultry Yards, R. 4, Sheridan, Mich

John's Big Beautiful Barred Rocks are hen hatched, Judck growers, good layers 30 eggs 33, 100 38. Postage paid, Circulars, photos. John Northon, Clare, Mich.

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SPLITDORF

# Our Boys' and Girls' Page

# Soldiers of the Farm

By E. L. Vincent

are growing. Squirrels must have car- slight it might seem. And this drillried nuts from two or three trees down ing, and the lessons in obedience, put in the valley and dropped them along strength into limb and heart and spirit, in various places, and here they have so that when the time came, they could sprouted, so that if nothing happens to win in every battle. them the time will come when we will have a good crop of nuts.

toughest, hardiest trees you could pos- to mourn when things do not go just to

UP in the pasture on my farm quite to obey orders. It would not do to a number of little hickory trees break a single rule, no matter how

Life everywhere is a big fight. We have to get ready for it, and right now And I have spared those trees when we are drilling in the farm field for I have been cutting brush in the pas- the day when the battle will come to ture, not simply because of the nuts I us. The same things apply to the solthink they will some day bear, but also diers of the farm that do to the lads for the reason that after a while the in the war. Work, hard knocks, obewood of the trees will be valuable. And dience—these are the keynotes of sucthose little saplings are even now the cess. No use to whimper and sit down



Boy and Girl Club Members Gather at M. A. C.

country. There they stand, rooted we are. firmly, hardy to withstand every blast, and growing more and more so every HOW I MADE MY CROP OF POTAday. I am sure I shall always find my little hickories in their places, no matter how hard the wind may blow.

Why are these trees so strong to Michigan State Potato Club Champion. bear up against tempests? Just because they have grown up in the very midst of the storms. Every time rain or snow or hurricane comes, the hickories catch a terrible threshing. They get the sunshine, yes; but also the storm. And that is why they are so stout. The trees that grow up in the woods are in a great measure protected from wind and storm by those that penses and profits. are around them. They grow taller because of the shade—always trying to get up to the light, you see-but they have not the power to resist the hard blows when they come, as they are sure to come first or last.

Boys and girls sometimes think they are getting pretty hard knocks on the farm. Makes them squirm. I know how that goes. I have not forgotten how it was when I was a boy. If you knew all about the road I have traveled, you would know that when I speak of the things which come to try young folks I know what I am talking about. But my own boys thought the same way. I suppose their boys will think their lives have hard places, too.

But when we are tempted this way, it is a good thing to remember the little hickories up in the pastures. Strong because of the hard blows! Is there not a good deal of comfort in that? For the boy or the girl that would be satisfied to have folks say, "They haven't a bit of grit in them! Can't stand up against anything! Never would do to put them in a place of responsibility; they would fail in no time."

Soldiers of the farm. What made the boys over in France able to win? You know. Before they went, and for some time after they reached the other side, day after day they were required to drill and drill and drill, often until they were ready to drop. But it made them strong. Then, too, they had

sibly think of. Other trees that grow suit us. The thing to do is to be brave, deeper in the woods are turned up by true, earnest and to love the very the wind and spoiled; but I never yet things that now seem to us the hardsaw a hickory which grew out in the est, for they are making us fit for toopen that was hurt anyway by storms morrow and its big battles. Are we that now and then sweep over the all good soldiers of the farm? I hope

TOES.

BY WALLACE KREIGER.

ENROLLED as a member of the Potato Club for the purpose of learning the cheapest way of raising potatoes and also earning some money of my own. The purpose of the club is to teach us boys how to raise potatoes. It also teaches us to be business-like, as we have to keep an account of ex-

The kind of soil on my potato crop

### Our Prize Contest

To the boy or girl writing the best letter, of less than 250 words on each of the following subjects, the Michigan Farmer will give a cash prize of \$1.00.

(Subject of letter to be mailed by April 28):

"The best war story I ever

(Subject of letter to be mailed by May 5):

"The best hike I ever took."

(Subject of letter to be mailed by May 12):

"The worst bargain I ever

We desire to make this contest a permanent feature of our Boys' and Girls' Department. A new subject will be added each

Write neatly with ink on one side of the sheet only. Give your age, full name and address.

Address your letters to The Boys' and Girls' Dept., Michigan Farmer, Detroit, Mich.

is a sandy loam. First I plowed my plot of ground, it being a hay meadow before. Then I disced the ground and later on plowed it again and finally harrowed the ground, and then I was ready for planting.

The kind of seed used was Green Mountain selected from last year's crop. The Green Mountain potato is medium in length with an oblong form and the skin is white and eyes shallow.

I cut my seed potato in pieces from one to three eyes on each piece. I planted my potatoes in rows twenty inches between each hill and three feet between each row. About two weeks later I harrowed the potatoes until they came up and then I was ready to cultivate. I cultivated my crop about four times during the season in order to do away with all weeds.

I had no trouble with diseases on my crop of potatoes but was troubled with insects for which I used Paris green.

About October 3, I began to harvest my crop of potatoes. I dug them with a potato digger and received one hundred and twenty-three bushels of potatoes on one-fourth acre of land. I sold forty bushels and stored the rest away.

The expenses on my potato crop this year was nine dollars and forty-five cents. The value of the potato crop was one hundred and eighteen dollars and eighty-five cents, leaving me a profit of one hundred and nine dollars and forty cents.

### OFFERED SHEEP ON A FOUR-YEAR CONTRACT.

O NE of the best plans yet offered for boys' and girls' sheep clubs, says T. L. Bewick, Wisconsin State Club Leader, is the four-year contract of a Wisconsin sheep company. At the end of four years the young shepherd will have a flock that represents onehalf the increase of the flock, as well as one-half the original number of ewes providing any remain at the end of the four years. The boy or girl must become a member of the county sheep club working under the supervision of the county agricultural agent or club

The terms of the contract include agreement on the part of the boys and girls to house and care for the ewes they receive from the company and to have them bred to a pure-bred ram, which the company is to furnish.

The company shares the sales receipts from the wethers, to be sold each year as directed, and half the wool sheared from the sheep, to be divided and sold at the time of shearing as directed by them. The boys and girls are to have all the wool sheared from the ewe lambs.

Special precautions are to be taken against loss from dogs, and the sheep must be housed each night in a suitable shed, but the company stands half the loss unless it is due to carelessness. Judgment on this will be left to the supervisor.

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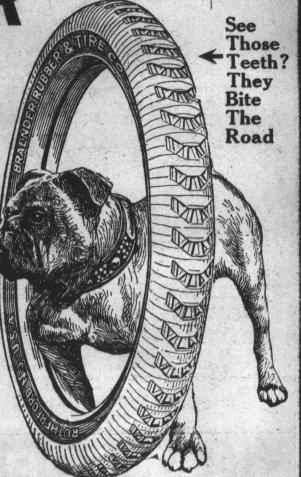
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# YOUR UNPAID DOLLARS

## What They Saved America

I T is a real American village. It is 20 miles west of the Mis. of 19 years. sissippi River; its populationabout 2,600.

open hand and a glad heart.

The richest man in the village aged ten years in ten days. His only son lay dead in France.

The village butcher boy-born in Ireland-smiled for the last time in France. He died fighting for America.

his sight.

lost two.

The realities of this village are the "might-have-beens" of all It gave its sons to war with an America. But thank God, America as a whole never really felt the hand of war-as England felt it, as France felt it, as our neighbor across the border, Canada, felt it.

And why?

Because your dollars stopped the war. Your dollars made possible those tremendous prepara-The village Beau Brummel tions for a long war which rewon the Croix de Guerre and lost sulted in a short war. Your dol- those unpaid dollars. lars bought such an array of bayonets and bombs, planes and American sons were saved.

Gas claimed a mere school boy pontoons, shot and shell, that Germany wilted-a year ahead of schedule.

> Half a million American boys were saved.

The dollars that did it are still in your pocket.

For America prepared on Faith. She knew that true Americans held their dollars cheaper than their sons. She knew that American thrift would gladly take the place of American blood.

America now asks you for

Let your heart say how thank-One family sent three sons and tanks and trucks, guns and gas, ful you are that half a million

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with your horse?

Got a bad cut or sore? Gone lame on you?
But "what's the matter" is not the point. What are you

Why don't you use Hanford's Balsam of Myrrh! You ought to have a bottle on hand all the time anyway.

Then, whenever a horse gets any kind of a wound, pour on a little of this fine antiseptic to cleanse the wound and to prevent any future infection by it's forming a dirt and dust-proof film over the wound.

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That you may know its merits for yourself, present this ad-

That you may know its merits for yourself, present this advertisement at your dealer's and buy a bottle (in any of three sizes). And

Test It At Our Risk!

If not completely satisfied, take empty bottle to dealer and get your money back. No questions asked!

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# HANFORDS Balsam of Myrrh

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### bull calf, sired by our imported "EDGAR of DALMENY"

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# ABERDEEN ANGUS

that Mr. Scripps is breeding. He enjoys seeing good stock on "Wildwood" and believes that THE BEST IS NONE TOO GOOD.

"Edgar of Dalmeny" won the Michigan Grand Championship last Septemeber at the Michigan State Fair and was a winner in his class at the Chicago International last December.

We have a few females with calves at foot and re-bred to "Edgar of Dalmeny" that Mr. Scripps has consented to sell to reduce the fast growing herd.

Write To

### WILDWOOD FARMS ORION, MICHIGAN

W. E. SCRIPPS, Prop., Sidney Smith, Supt-

Registered Aberdeen Angus. Seven buils from eight to twelve months old. Plenty of size best of breeding. Prices reasonable. Come and see them. Inquire F. J. WILBER, . Clio, Mich.

# WOODCOTE ANGUS

Breeders and feeders of many Interna-tional winners.

Write For 1919 Bull Sale Catalogue WOODCOTE STOCK FARM,

Cloverly Angus Bred cows, heifers and bull calves of good breeding.
GEO. HATHAWAY & SON, Ovid, Mich.

Two purebred Angus bulls aged thirteen and fourteen months, correspondence invited or come and see them. T. J. LYON, Homer, Mich.

### Registered Guernseys Bulls, and Bull Calves, good enough for any breeding at prices you can pay. J. M. WILLIAMS. North Adams, Mich.

GUERNSEYS must reduce herd, so offer a few choice females of Glenwood breeding also bulls, all stock of A. B. breeding, herd tuberculin tested, Battle Creek, Mich.

### For Sale Registered Guernsey Bull

Gov. Chene Golden Noble & May Rose breeding, Tubercular tes ed by state Halcyon Sequal born 1912. Great grand son of Gov. Chene sires and grand stres are all A. R. breeding. Price \$250 F. O. B. Avondales Hope born Mar. 25, 1917. Sire Halcy on Sequel Dam Gertrude of Halcyon. Farm price \$155 F. O.B. Luella's Duke of Avondale born Jan. 1, 1918 Sire Lord Sunrise Dam Luella's Maid. Price \$100 F. O.B. Avondales Hero born Jan. 10, 1918, Sire Halcyon Sequel Dam Serena of Pittsfield. Price \$20 F. O.B. Avondales Joy born Feb. 8, 1918. Sire Halcyon Sequel Dam Wrinkle of Pittsfield. Price \$125 F. O.B. Avondales Mark born Apr. 9, 1948. Sire Lord Sunrise, Dam Popular Polly. Price \$100 F. O.B. Avondales Mark born Apr. 9, 1905 F. O.B. Come and look our herd over.

GUERNSEYS-REGISTERED BULL CALVES Containing blood of world champions.
HICKS' GUERNSEY FARM, Saginaw, W.S. Mich

Guernseys Grade Heifer Calves Registered Bull VALTER PHIPPS FARM, 80 Alfred St. Detroit, Mich.

For Sale Registered Guernsey Bull, one year old.
GEO. W. REEVES, R. 7, Grand Rapids, Mich.

My entire herd of Guernsey Cattle for sale; must be sold before May 1, 19; must leave the farm JOHN EBELS, R. 2, Holland, Mich

The young bulls we have for sale are which should be placed first; we have to wish there were more of it. backed up by many generations of them both on our hands to solve, and One thing we must remember, if we McPherson Farms Co., Howell, Mich.

### Traverse Herd

We have what you want in BULL CALVES, the large fine growthy type, guaranteed right in every way. They are from high producing A.R. O. ancestors, Dam's records up to 30 lbs. Write for pedigrees and quotations, stating about age desired.

TRAVERSE CITY STATE HOSPITAL Traverse City, Mich.

831.43 lb. butter in 305 days 36.2 in 7 days; gddam. Jo Man Heng. Lad, gdsire. 21.73 lb. dam of bullloalf k white. 3 heifer adves 27 lb. sire not related. Terms easy. M. L. McLAULIN, Redford, Mich.



# Making Pork at Less Cost

By W. F. Taylor

certain lots of pigs, giving a few per- el on his corn. sonal experiences along with others. growing pigs. I am anxious to ac- ate." knowledge now that in the article I have failed sadly in the thing I was items to be reckoned. The value of desirous of doing. It was my hope and pigs at time of weaning, interest and my purpose to prove beyond reason- depreciation on value of equipment, able doubt that pigs must have either etc. But we were not thinking about milk or tankage in the ration in order those things at that time, so really to make profitable growth. Incidents things were worse than I told him. cited in my own experience were those should doubtless have done so; but it better methods. was my purpose to demonstrate by my tion, is to fail of the best results.

this matter, and he said, "Taylor, you market for the product of their dairies. will have to write another article in ortankage across." So, here goes.

much are they going to weigh? What use of his skim-milk. with tankage or skim-milk, but the of the overhead. economy of the operation might be serhave been wasted.

produce it and receive "cost of produc- their share. tion, plus a reasonable profit," he must

The man was delighted and he told are other requirements of growth

Some time ago I wrote an article his story with the air of one who has upon economical pork production, been, and seen and conquered. At the which appeared in this paper. In end of his narrative he told us that he that communication I discussed the re- had figured the cost of those hogs, and sults of bad rations upon the growth of that he made thirty-seven cents a bush-

I had not the heart to bother him Since that time I have received some then, before that crowd, but afterwards letters and have had a number of con- I said to him, "But, Brother, that corn versations bearing upon the article in was worth eighty cents a bushel at the question. In nearly every case, the market and instead of making you any writer of the letter, or the person who money, those bad hogs cost you all referred to the article in conversation your labor, all your risk, and fortyhas written or spoken of his success in three cents a bushel for the corn they

Of course, there were other cost

But we must figure all items of cost, which I considered failures. Of course, find out exactly where we are at in I might have told some good stories this business of pork production, and along with the others, and had I been then face the facts with a determinatrying to prove myself a hog man I tion to cut down production costs by

First, we must realize the value of own mistakes that to endeavor to grow skim-milk. I was in a community the a bunch of pigs without careful atten- other day, where a part of the people tion to a few important facts in nutri- patronize the condensary, and others still send their cream to the creamery. A prominent breeder of hogs was I think the majority were convinced talking with me the other day about that the condensary offers the better

As a matter of fact, in the long run der to get your gospel of skim-milk and I doubt it. Of course, it will depend on some things which are not just now The thing for which we should strive knowable, but it may quite safely be is economical production. Two prac- said that the man who still markets tical questions are suggested to me his cream at the creamery has an averwhenever I sell a bunch of pigs-how age chance, providing he makes good

have they cost me? Of course, in a If he feeds it to his hogs in too large general way, it may be said that the quantities, he loses out. If he does not hog that makes a large growth in a feed enough he gets less for what he short time has done so economically, does feed, but if he balances the milk but many exceptions may be found to in the ration with the right amount of this rule. To have bought corn last grain, properly chosen and fed in right year at two dollars a bushel and to quantities, he is bound to get a good have used it for hog feeding might round price for the skim-milk, the have grown large hogs in a short time, grain, and to have something left to if the ration were properly balanced reward him for his labor and take care

Thousands of farmers in Michigan iously questioned. Again, while a bunch are not situated where they can sell of hogs might grow very much less market milk, either to the condensary rapidly in the yard behind a lot of or for the city milk supply. Their steers, the growth would be obtained skim-milk must be marketed at home, at very little cost since the hogs would either as feed for the calves, or the live largely on what might otherwise hogs or poultry. If one has a purebred herd, he can afford to feed much The consuming public demands large of the milk to the calves. Some, howquantities of pork. If the farmer is to ever, will remain after they have had

Very often the amount is not large solve two problems—the problem of enough to go around among all the cheaper production, and that of more hogs and hens, and so we simply give efficient marketing. I do not know it to them without much thought save

large producers. Buy one of these bulls, and give your herd a "push". Full descriptions, prices, etc. on request.

Perhaps we may work them out togethare to secure the largest returns from the judgment of the writer, this that milk, and from the grain fed in connection. Milk and grain must be As we have said, it is not enough to fed in relative amounts, or some things have produced a bunch of large hogs must be supplied to supplement the in a few short months. I recall the lack of milk. If young pigs are to story of a friend who had been asked grow normally they must have someto give his experiences in pork produc- thing from which to make bone. Small tion at a Pomona Grange meeting a pigs will grow very fat on a ration few years ago. It was a good story in of corn, but their bodies will not grow so far as the size of the hogs could normally because to grow good strong contribute to it. The pigs had come bodies requires bone growth, and the right on from the first without a hitch. pig can not grow bone without a good-They had grown at the rate of over a ly quantity of lime, and a considerable pound and a half a day, from the far-phosphorus which are not in the corn rowing to the day they were killed. in sufficient amounts. Then, too, there

which can not be met with any grain, but which only animal food can supply to the young pig.

Skim-milk meets the needs of the growing pig, with the addition of the right amount of grain.

. It has been proven again and again that tankage will take the place of skim-milk, and where it can not be had locally at the right prices, we should look up some other source of supply.

Usually pasture of clover, alfalfa or bluegrass, or even rye, will tend to cheapen the production of pork, but at present high prices of hay, I should hesitate long before turning a bunch of hogs into a good field of alfalfa.

In the judgment of the writer, if the hog of today is to be produced at a profit, he must be compelled to live principally upon by-products. Given skim-milk or tankage with the right amounts of grain to balance, passing his time with the fattening steer picking the corn out of the droppings, pasturing on rough ground, and consuming feeds wihch are the by-products of bean elevators, or breakfast food factories, the hog has a right to live until he is fit to die, but if the only thought on our part is to make him grow, and then after a while to fatten him without regard to the cost of what he is eating, then he will not furnish a satisfactory market for the grains grown on the farm, nor pay the mortgage, nor send the boy to college, nor do any of the things so necessary to successful living in the open country.

We are not at all discouraged-the world is learning something new about hog feeding each year. Last year some friends of mine did good work with corn and soy beans in pork production. It is often possible in the southern counties to grow large crops of corn and soy beans and feed them to hogs at a liberal profit. The hogs have time to harvest them, and they leave the droppings and a considerable amount of vegetable matter to be turned into the soil. Indeed, I am sure that one might follow this system for a long time without any falling off in crop yields.

The time has come when we must consider every system of farming with reference to its effect upon the soil.

A good soy bean crop hogged down, insures the increase of nitrogen in the soil, providing the inoculation is good.

The great importance of growing our own nitrogen rather than to dream of buying it at present prices in commercial fertilizers must appear to anyone who will stop for a minute and think. If we can use the hog with profit as a consumer of by-products from the farm and elsewhere, if by better breeding and wiser and more intelligent feeding we can grow larger quantities of meat from less feed, and finally if the hog may become our agent in the reclamation of soils depleted in nitrogen, and that, too, with a liberal profit, then the importance of this humble animal increases in our estimation.

So let us welcome the hog breeder, let us give our support to the pig club, and to every means that will give the world its supply of pork with less of toil and more of profit to the grower.

### LIVE STOCK NEWS.

According to late reliable information; the spring lamb crop of Tennessee and Kentucky shows an increase of from fifteen to twenty-five per cent over that of last year, and Tennessee over that of last year, and Tennessee lambs may be expected to be marketed freely by the latter part of May, the supply becoming liberal by June. The Kentucky lambs were bred later than usual, however, and they will not be marketed very liberally before the month of July.

Silage-fed cattle are being marketed extensively in Chicago and other western packing centers, and silage is now firmly established in all parts of the country as a stock feed.

firmly established in all parts of the country as a stock feed.

Illinois stockmen are discovering that cattle do extremely well on rations comprising ground corn and cobmeal, clover hay and molasses feed. The molasses feed is found to make the best and cheapest gains.



# Out of oil again

Few motorists realize that half of ordinary oil is wasted by excessive evaporation

UT OF OIL! Yet you started with a full supply more than enough, you felt sure, to bring you safely home again.

If you take the cap off the oil filler you will see the oil evaporating in a thin cloud of smoke. The intense heat of the engine—200° F. to 1000° F.—causes ordinary oil to evaporate rapidly.

How to prevent waste

Only an oil that resists heat will prevent

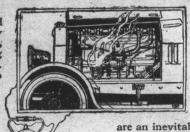
rapid evaporation and waste. In laboratory tests, as well as in road tests, some

oils make a very poor showing, their losses by evaporation running twice as high as

Veedol, the lubricant that resists heat. The

Ordinary oil not only evaporates rapidly,

in black sediment which has no lubricat-



Sediment crowds out the good oil on the metal-tometal surfaces and prevents it from efficiently lubricating the fast mov-ing parts. Loose bearings are almost always the result of using poor oil. Engine knocks, broken connecting rods, scored cylinders, slapping pistons

are an inevitable result. After years of experimentation, Veedol engineers evolved a new method of refining by which a lubricant is produced which resists heat. This—the famous Faulkner process—is used exclusively for the production of Veedol, the scientific lubricant.

How Veedol, the scientific lubricant, re-

duces the formation of sediment by 86% is shown by the two bottles illustrated above.

### Buy Veedol today

Your dealer has Veedol or can get it for you. If he cannot supply you, write us for the name of the nearest Veedol dealer. Enclose 10c for copy of the 100-page Veedol book, which describes internal combustion engines and their lubrication. It will save you many dollars and help you to keep your supplied to the control of the control o car running at minimum cost.

### TIDE WATER OIL COMPANY

Veedol Department

642 Bowling Green Building, New York Branchesordistributors in all principal cities in the United States and Canada

# average loss in ordinary oils is 40% more than in Veedol. When measured by the number of miles per gallon, Veedol is more economical than ordinary oil, because of this reduction of evaporation. EEDOL but also breaks down under the heat of the engine, forming a large part of its bulk

Ordinary Oil

after use

Showing sediment formed after 500 miles of running

ing value.

### CATTLE

54,800 LBS. MILK IN TWO YEARS

A California Holstein cow made a yearly record of Alter an interval of two months, she began anher yearly test, which closed with a record of slbs, of butterfat from 28,282 lbs, of milk. These two successive yearly tests during ich 54,800 lbs, of milk were made are more idence that great records are not meanings, spaemodic efforts but represent capacity rmanently developed.

If interested in

### HOLSTEIN CATTLE

Send for our booklets—they contain much HOLSTEIN FRIESIAN ASSOCIATION OF AMERICA, Box 164, Brattlebero, Vt.

### "Winwood Herd" REGISTERED Holstein - Friesian Cattle

FLINT MAPLECREST BOY

His sire is Maplecrest Korndyke Hengerveld. His three nearest dams each over 30 lbs. of butter in 7 days. His dam and granddam both made over 1222 lbs. of botter in one year. It is the yearly cow we are looking for to deliver the goods. Filmt Maplecrest Boy's Dam is Gluck Vassar Bell. 30.57 lbs. of butter n 7 days and 121 lbs. in 30 days. Her butter fat test is 5.27. This looks about right to the man who goes to the creamery. We have bull calves from 2 weeks to the creamery. We have bull calves from 2 weeks to 12 months old. From A. R. O. dams and stred by Fifth Maplecrest Boy, which we will sell at a dairy farmers price breeding considered. Just think 40 more cows to freshen which means more bull calves. Let us know your wants. We will make terms on

JOHN H. WINN, Inc.

Lock Box 249, Roscommon Mich Reference Roscommon State Bank,

## **CLUNY STOCK FARM**

100--REGISTERED HOLSTEINS--100
When you need a herd sire remember that we have one of the best herds in Michigan, kept under strict sanitary conditions. Every individual over 6 mos. old regularly tuberculin tested. We have size, quality, and production records backed by the best strains of breeding.
Write us your wants.

R. BRUCE MCPHERSON, Howell, Mich.

# LANGHURST FARM SALE

45 Registered Holstein Frieslan Cattle 45 At Sebewaing, April, 24, rain or shine

Young females, mostly fresh, bred to 33.34 lb. sire. Tuberculin tested. Mostly out of A. R. O. dams. Free trans. from depot.

Auct. Meckeldowny & Luther. Wood in Box. Write for catalog.

F. J. LANGE, Sebewaing, Mich.

supervision. The entire herd have just been cubercans tested and not one reactor. A good place to buy that bull you are looking for, and I have two very fine, richly bred, and splendid individuals ready for any amount of service. I want to answer any question you may ask about them.

L. E. OONNELL, Fayette, Ohio

BULL CALVES

Sired by Mapleside Korndyke dam at 3% years, and great grand-dam have semi-official records averaging 842 lb. butter in 1 year. Dams of calves have A. R. O. records up to 19.23 lb. butter in 7 days. Write for breeding and prices.

PEACELAND STOCK FARM
Three Rivers, Mich. Chas. Peters, Herdsman
C. L. BRODY, Owner Port Huron, Mich.

Registered Holstein Bull calves from A.R.O. cows un to 29.32 lbs. butter in 7 days, grandsons of the \$50.00 bull.

C. H. GIDDINGS, Gobleville, Mich.

For sale A fine registered Holstein bull calf from large producing ancestors, born Dec. 18, 1918. Would make a fine sire for improving a grade herd, Price reasonable. A. F. LOOMIS, Owesso, Mich.

For Sale Registered Holstein bull culf, born Feb. 18, F. 1919, mostly white. Dam daughter of 20 lb sire. Sire Grandson of Pontiac Korndyke, write for pedigree apprice delivered. E. E. STURGIS, St. Johns, Mich.

A Good Note accepted in payment of finely bred registered Holstein bull calves. Quality of the best, and at prices within reach of all. Write GEO. D. CLARKE. Vassar, Mich. Sulls All Sold, each Due to lamb soon.

J. ROBERT HICKS., St. Johns, Mich.

\$125 Buys two high grade unregistered heifers near ly six months old, and one reg. bull 3 mos. old. Pontiac breeding. B. B. REAVY, Akron, Michigan

WANTED a Reg. Holstein Bull dam better than 30 lb. PARHAM'S PEDIGREE STOCK FARM, Bronson, Mich.

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

JERSEY BULLS

Ready for service FOR SALE
WATERMAN & WATERMAN. Ann Arbor. Mich.

Maple Lane R. of M. Jersey herd. Bull and heifer
Champion, Sophie's Agries, Also R. C. Red eggs and
chix. IRVIN FOX. Allegan, Mich.

The Wildwood Jersey Farm. Bulls for sale by Majesty's Oxford Fox 134214 and Eminent Ladys Majesty 150934, and out of R. of M. Majesty dams.

ALVIN BALDEN, Capac, Mich.

L ILLIE Farmstead Jerseys. Young bulls ready for service from R. of M. cows. A few bred helfers and cows. QOLON C. LILLIE. Coopersville, Mich.

For Sale Registered Jersey bulls ready for service and bull calves. SMITH & PARKER. R. 4. Howell, Mich.

Jerseys, reg. cows and heifers, choice breeding, large producers \$100 to \$150, also bull calves \$10 up. Reason earcity of labor. Ten Have Farm. R. 2, Holland, Mich.

Lakewood Herefords Strong in the blood of that breeds true to type and predominates the show and sale rings of the country. A few his young bulk for sale. Come see, and compare, adjoins town. Citz. Phone 29. E. J. TAYLOR. Fremont

Both sexes and all ages for sale also horned and polled bulls in service. Governor by Prince Donald by Prime Lad 9th, Militant Farmer by Imported Farmer, Fairfax Farmer by Militant Farmer, Dath by Perfection Fairfax.

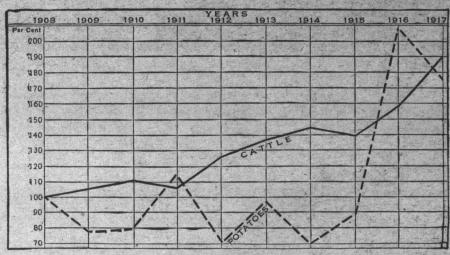
ALLEN BROS., Paw Paw, Mich.

Herefords Polled and Horned blood lines on the process of the fection and Prime Lad 9th breeding, Prices reasonable, OOLE & GARDNER. Widner, Mich.

Herefords Bob Fairfax 494027 at head of herd. Stock for sale, either sex polled or horned, any age. Priced right, EARL O, McCARTY, Sec'y, H. B. Ass'n. Bad Axe, Mich.

For Sale 165 Hereford yearling steers, 96 Angus 181 Shorthorn, 198 Ows and Heffers A. C. WISECARVER, Fairfield, Ia

Shorthorn Scotch bull 2 years old, 3 good bull calves 7 mos, old for sale.
W. C. OSIUS, Hillsdale, Mich.



Cattle have been one of the steadiest products a farmer sells on the market. Compare them with widely soaring potatoes

# Cattle—the safest "crop" on the farm

The farmer who plants potatoes cannot tell you within 30 per cent what he will get for the potatoes next fall.

They may be worth \$6 to \$8 a barrel. He may not be able to sell them for \$2.50 a barrel

But a farmer can tell within 10 or 15 per cent what he will get for his cattle.

Why? It is because the cattle business has been made fairly steady. In spite of the uncontrollable flurries from week to week, you can be surer of what you'll get for your "cattle crop" than you can for most of your other crops.

Swift & Company has helped to steady the market for you by providing a wide outlet. Refrigerator cars supply every town and village in the far corners of the nation. We distribute meat where it brings the most money; we ship abroad when prices are better there; and we will pay you in cash all that your animals are worth in the form of meat and by-products. Swift & Company's profit last year (including by-products) was less than  $2\frac{1}{2}$  cents on each dollar of sales.

Isn't that a low enough commission for a service that guarantees the highest possible price for livestock?

## Swift & Company, U. S. A.

Founded 1868

A nation-wide organization owned by more than 25,000 shareholders



CATTLE

BIDWELL STOCK FARM,
Box B, Tecumseh, Mich.

Shorthorn Cattle of both Sex forSale W. W. KNAPP, Howell. Michigan.

Shorthorns Scotch and Scotch Topped cows and heif-ers, priced right. Come and see them or write W. B. McQUILLAN, R.7, Howell, Mich.

# Richland Farms

Shorthorns

Home of the Mich. Champions. We have just purchased the entire herd of Scotch cattle belonging to the Estate of the late A. D. Flintom, Kansas City, Mo. About Feb. 1st. we will offer a choice lot of young bulls for sale.

C. H. PRESCOTT & SONS, Office at Tawas City, Mich. Farms at Prescott, Mich.

Stockers & Feeders For Sale 180 Shorthorn Steers ave. 1065 lbs. 170 Hereford Steers ave. 200 lbs. 20 lbs.

Sulton by the Oscola JOHN SCHMIDT, Se

Milking Shorthorns Clay bred young bulls DAVIDSON & HALL, Tecumseh, Mich.

Shorthorns Central Mich

Shorthorns 100 head to select from. Write me your wants, price reasonable. Wm. J. BELL. Rose City, Mich.

The Kent Co. Shorthorn Breeders have both males and females for sale. Ask about them.

L. H. LEONARD Sec., Caledonia, Mich.

Milking Shorthorns of best Bates breeding and O. I. C. swine. Bulls for sale 1 mo. to year old.

E. H. KURTZ, Mason, Mich

Full Blood Shorthorn Bulls W. PULVER & SON, Three Rivers, Mich.

Cattle For Sale Stockers & feeders, from 500 to 1,000 lb, Write your wants, ISAAC SHANSTROM, Fairfield, Iowa.

Registered Red Poll Calves and Duroof for sale. Will Cottle, West Branch, Michigan.

# ents of Archers and white Hall Breeders Ass. Breeders Ass. ed City, Mich. But

Here is a very straight 6 months old Shorthorn Breeder No stock for sale at present. Imlay City, Mich. R. O. record of 27.09 lbs. butter,607 lbs. milk in 7 days and a big milker for the year. His sire is a 32 lb.son of the famous \$50,000 bull.

make you money write

# LAKE SIDE DAIRY

LAKE ODESSA, MICH.

HOGS.

DUROC Il pigs. You need a litter b 50 red sows and 50 fall pigs. You need a litter by Orion's ancy King the biggest pig of his age ever at International fat stock show. Catalog tells all.

NEWTON BARNHART, St. Johns, Mich

### HOGS ON SHARES.

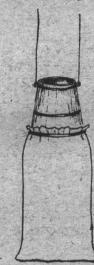
I wish a little information pertaining to a contract concerning the furnishing of a thorough-bred brood sow due to farrow this spring. An interested party provided me with \$80 with which to buy this sow. He now wishes a share that I am willing he should have. However, neither he nor I have had any experience in business of this kind. I am to have the care of the hogs and furnish all the feed. The hogs are to be fed with the expectation of marketing them all except what we want to keep for breeding purposes. If you can furnish some suggestions which is about an inch less in diamparties I will greatly appreciate same. Muskegon Co. G. C.

The man that furnishes all the feed and takes care of the hogs ought to have about all the profit that can be made these days and I wouldn't want to pay much more than good interest on the money invested. You could undoubtedly go to the bank and borrow the money to pay for this sow, then all it would cost you would be the interest. The uncertainty of the price of pork in the next six months or year is such that personally I would not care to take any great risks. Of course, the man who purchased this sow invested his money and if he owns the sow he takes the risk of the sow living. That relieves you of that obligation and so you might pay him what it would cost to insure this sow against death, but I can hardly see why he could expect very much more.

If the man furnished half the feed and furnished the hog, then he would be entitled to say half the profit but where he furnishes nothing only the brood sow, my judgment is that he is entitled to no more than good interest on the money plus perhaps the cost of insuring the hogs to make his investment safe. C. C. L.

### GRAIN BAG HOLDER.

THE farmer who sacks much grain alone will welcome this. Take an old bucket and remove the bottom. Turn it upside down, slip on a hoop which is about an inch less in diam-



eter than the largest end of the bucking by two wires. Slip the mouth of the bag over the bucket and push the hoop down over it. This will hold the bag securely and the more grain you Buy This Sire pour in the tighter it will hold it. When full raise the sack to loosen it.—F. E. W.

### THE NEVER-OPEN GATE.

W E have often found that certain gates are liable to be left standing open by persons passing through. Here is a very good way of overcom-If you want a real sire that will ing this trouble. Fasten your large gate securely and place a small gate



at the place or places where you pass through frequently, similar to the illustration. This gate is really always open and yet never open to stock from which much damage often occurs when gates are left open.-W. F.

### NO DROP IN MEAT PRICES?

THE American Meat Packers' Assomay not be expected until the war. high as in any previous year since recstricken countries of Europe are ena. ords began. bled to resume their quota of produc-

The statement reads in part:

dustry is just about what Herbert ground was bare for considerable peri-Hoover and other food administration ods during the winter, the weather was officials said it would be as far back as the first of the year.

by heavy demands rather than any con- winter-killing of consequence, and a troi aimed to stimulate production has marked absence of bare spots in the recently been illustrated very clearly fields is noted. A plentiful supply of in the case of hogs. When the mini- moisture in March, followed by unseamum price fixed for hogs was removed sonably mild weather has promoted an the food administration predicted that early spring growth. Reports from the prices might go still higher. The northern districts are less favorable. prediction is now being verified.

nearer means a greater call on this apprehension, and the season was not country for meat. The supply of meat sufficiently advanced to accurately deis dependent first of all on the supply termine the condition. of live stock. European herds have is crippled.

exceeded the number at the beginning previous records by 50,000 acres. of 1918 by 1,036,000 cattle, 4,213,000

hogs and 963,000 sheep. ing reduced the demand for meat, has per cent over last year. given us more than 200,000,000 additional mouths to feed, either wholly or in part. As shipping becomes available an increasing number of hungry ioning.

remains high.

Czecho-Slovakia; 13,000,000,000 in Ru-dling grades. mania; 12,000,000 or 13,000,000 in Greater Siberia, and 20,000,000 in Fin- If a sheepman has a shipment of

being sent into the central empires in Chicago market, he is sure of receiving order to avert anarchy and govern a high price, even if the market should mental insolvency.

"Mr. Hoover

report issued by Verne H. Church, country.

Field Agent, Bureau of Crop Estimates of the United States Department of Agriculture. A bumper crop of rye is ciation in a statement issued April also indicated, the acreage being the 12 declares that lower prices for meat largest on record and the condition as

Winter wheat was mostly planted at the normal time last fall, and obtained a good growth, both top and root, be-"The situation today in the meat in- fore the winter set in. While the comparatively dry and mild and practically no heaving occurred. In the That high prices are caused largely southern half of the state there was no Alternate freezing and thawing in that "High prices will continue for a long part of the state during the closing time. Each day that brings final peace days of the month was causing some

Rye is also in excellent condition been reduced by the war. To that ex- The acreage planted last fall was estitent world production of live stock mated to be twenty-one per cent greater than that of the previous year, an "Live stock on farms in the United increase of over 100,000 acres; while States at the beginning of this year the area harvested in 1918 exceeded all

An inquiry relative to the number of breeding sows shows, that for the state "But the armistice, instead of hav- as a whole, there is an increase of four

### LIVE STOCK OUTLOOK.

(Continued from page 622). nations will be accessible for provis- supplies of hogs and sheep this year than a year ago, their cattle receipts "Great numbers of meat animals have fallen off considerably, and rehave been dressed since the first of the cent marketings have been on a very year. Hogs are now coming into Am- moderate scale. It is evident from the erican markets in dwindling quantities cattle marketing now in progress in and in lesser numbers than a year ago. Chicago, that choice beeves, particular-Yet pork products must form a large ly those of heavy weight, are extremepart of our exports. The price of hogs ly scarce in feeding districts nearly everywhere, and a liberal premium is "Statistics now available as to the paid for the few prime heavy steers effect of war on foreign herds indicate showing up. The best sale for the year that the swine in Italy have decreased was that of ten head of Hereford from 2,508,000 in 1908 to 1,670.000 in steers averaging 1,255 pounds at \$20.40, 1918; in France, from 7,037,000 in 1913 the sale taking place recently. No to 4,168,000 in 1917; in Germany, from large numbers of steers are selling 25,592,000 in 1913 to 12,000,000 in -318: above \$18, and a load of steers averagin the United Kingdom, from 3,940,000 ing in weight as much as 1400 pounds in 1914 to 2,448,000 in 1918; in Den- is now a novelty. Many of the highmark, from 2,497,000 in 1914 to 513,000 est priced cattle sold in recent weeks In 1918, and in the Netherlands, from averaged around 1,225 to 1,325 pounds, 1,350,000 in 1913 to 1,185,000 in 1917. whereas a year age it required a load Germany sucked meat animals out of at least 1,400 to 1,600 pounds to top of the countries she occupied, accord- the market. Fat butcher cattle usually ing to Mr. Hoover. Belgium lost a sell at high prices, and up to a short third of her hogs, and more than time ago canning cows sold high, but three-fourths of her cattle. Cattle de- they sold off sharply recently because creased severely in many other coun- lack of government contracts kept the packers out of the market. Stockers "The numbers of liberated peoples and feeders have been selling at the who were inaccessible before hostili- highest prices ever known, and so have ties ceased, but who the United States fat beef steers, the top at \$20.40 comnow will help to feed, include, accord- paring with \$15.50 one year ago, \$13.15 ing to a very recent statement by Mr. two years ago, and \$10 three years Hoover, nearly 7,500,000 in Belgium; ago. Usually, the widest fluctuations 20,000,000 in Poland; 13,000,000 in in cattle prices take place in the mid-

Fat Lambs Sell High.

land, Armenia and other countries. strictly prime fat lambs, not too heavy "This takes no account of the food in weight and well assorted, on the chance to be considerably below the s German ship- highest time of the month. At the ping around 20,000,000 tons. This will best time this spring the best Colorado gradually become available for food wooled lambs brought \$21 per 100 cargoes. As it does, a larger and larger pounds, but since then prices have had er part of the demand for food can be quite a break. Recently the best wool-reached."

Weighed 28 of Pounds. We are the most extensive breeders and shippers of pure bree hogs in the we write today for the true story of the ed lambs have sold at \$19.65, and shorn lambs have comprised a large part of and have never lost a hog with cholera or any other contagious disease. CROP CONDITIONS IN MICHIGAN. the offerings. Three years ago the best lambs sold at \$11.50. Shorn, WITH the largest acreage since flocks are sold at a discount of from 1911, and a condition equal to \$2.00 to \$3.00. With prices ruling far that of 1914, the Michigan winter higher than before the war and a shortwheat crop promises to be the largest age in the country, sheep breeding is in several years, according to the April increasing in various parts of the



It pays to make your own stock tonic, condition powder, etc. Tix Ton-Mix with your own salt or cereal the A \$5.00 box makes \$40.00 to \$60.00 worth of medicated salt or \$75.00 worth of "stock tonic" -- saves you big money. A \$2.00 box by parcel post will medicate a bbl. salt or \$90 lbs. of cereal for cows, horses, hogs, and sheep.

PARSONS CHEMICAL WORKS Grand Ledge, Michigan Leona Park Farms Experiment Station

HOGS

# **Duroc Opportunity**

What would the earning capacity of a Brookwater Boar be in your herd? A mid-west breeder states that the Brookwater boar he used added from \$75 to \$100 to every gilt bred to him. It payed this man to use one of our boars it will pay you. We have several that we are offering at prices which appeal to the small breeder who must of necessity be a conservative buyer. We have a few that are good enough to be used in high class herds at prices in keeping with their in individuality and breeding. Money invested in a good herd boar very speedily increases the value not only of what you sell but what you keep. Send for price list or better, visit the farm.

BROOKWATER FARM, Ann Arbor, Mich. HERBERT W. MUMFORD, owner, J. BRUCE HENDERSON, Manager.

DUROC Jersey's-A few extra good fall boars'sired by Orton Cherry King Col. 2nd. Bred sows all sold. W. C. TAYLOR, Milan, Mich.

## Registered Duroc Gilts

endents of the leading strains; Cherry King, ader, King of Col's, The Professor, all bred to Defender the 25 th. No. 123705, his sire, Pal's Pre-Col. T. No. 8021. Dam, Royal Defendress No. One of the most promising her boars in Mich. Prices reasonable. Write for prices and furigan. Prices reasonable.
ther information.
THE JENNINGS FARMS, R. 1, Bailey, Mich.

### OAKWOOD FARM

Nothing for sale at present booking orders for spring pigs (Durocs). Tax Payer and Gold Model breeding. RUSH BROS., Romeo, Mich.

DUROC--JERSEYS E. D. HEYDENBERK, Wayland, Mich.

## DUROC JERSEYS

Gits bred for June farrow or the non-also fall pigs either sex pairs not akin. F. J. DRODT, R. 1, Monroe, Mich.

Durocs' Feb. farrow ready to ship May lst. \$15 two for \$25 crated, f. o. b. Bankers. Papers for registry furnished Satisfaction or money back. 39 registry furnished. Satisfaction type. farrowed in 3 litters. Big bone type. B. E. KIES, R. 5, Hillsdale, Mich.

Duroc Jerseys. A few choice gilts bred to Brook-water King Special III467. (A full brother to Brookwater Lass D.the grand champion sow at the 1918 International). Carey U. Edmonds, Hastings, Mich

Durse Opportunity Only one left; a good, young for spring service. Price \$5.00.
ALFRED LOCKHART, South Haven, Mich.

Spring Farrow sows all sold. Write me your future wants.

JOS. SCHUELLER, Weidman, Mich.

FOR Sale Duroc Jerseys of the big boned type fall pigs of either sex and taking orders for spring pigs. CHAS. BRAY, Okemos, Mich.

Hampshires Boars at a bargain bred gilts all sold.

JOHN W. SNYDER, R. 4, St. Johns, Mich.

# WORLD'S CHAMPION hig. type O.L.C's. Stock of all ages for sale. Herd headed by Calloway Edd, the World's Champion O. I. C. boar assisted by C. C. Schoolmaster, Grand Champion boar of Michigan, New York and Tennessee state fairs. Also, C. C. Giant Buster, undefeated Senior boar pig wherever shown and Grand Champion of Oklahoma state fair. Get our catalogue of Orandell's prize hogs, Cass City, Michigan.



HAVE started thousands of breeders on the road to success. I can help you. I want to place one hog from the started by the same of the started by the same of the



FOR FREE BOOK
"The Hog from Birth to Sale" THE L. B. SILVER CO. 196 Heights Temple Blo CLEVELAND, OHIO

Chesters, March and April pigs in ning stock prices reasonable axisfaction guaranteed. F. W. ALEXANDER, Vassar, Mich.

## Shadowland Farm

O. I. C.'s

Bred Gilts 200 to 300 lbs. from prize winning stock. A few fall yearlings and 2 yr. old sows, big type, growthy boars of all ages, guaranteed as breeders. Everything shipped C.O.D. Express paid and registered in buyer's name. J. CARL JEWETT, Mason, Mich.

O. I. C. and Chester White Swine Strictly Big Type with QUALITY. I am sold out of everything but fall pigs. These pigs are as good—and I think better than any I ever bred. I am one of the oldest breeders of Big Type in the U.S. NEWMAN'S STOOK FARM, R. I. Modette, Mich.

O. I. C'S. Serviceable boar: of last summer and fall fa row.
G. P. ANDREWS, Dansville, Mich.

O. I. C. Bred Gilts All Sold. H. W. MANN, Dansville, Mich.

O. I. C. Boar, 14 months old. Large fall piga C. J. THOMPSON, Rockford, Mich.

O. I. C. Gilts bred for summer farrow and a few fall boar pigs any of them good enough to ship. C.O.D. F. C. BURGESS, R. 3, Mason, Mich.

O. I. C's 2 Choice Yearlings Boars and Spring pigs.
Clover Leaf Stock Farm, R. 1, Monroe, Mich.

0. 1. C's One very good yearling boar, a few last Sept.gilts, and this spring pigs to offer, registered free. % mile west of Depot. Citizens Phone 124. OTTO B. SCHULZE, Nashville, Mich.

O. I. C. fall gits, ready to farrow in July. Good ones, few boars left. Priced to sell. Will Thorman, Elm Front Stock Farm, Dryden, Mich.

FRANCISCO FARMS
SHORTHORNS—POLAND CHINAS
Three choice heifers and a few young cows to offer.
Also fine good glits bred for late springfarrow. Prices are attractive. P. P. POPE, Mt. Plesant, Mich.

For 25 Years We have been breeding Big of the most approved blood lines. Our new herd boar "Michigan Buster" is a mighty good son of the great "Giant Buster", dam "Mouw's Miss Queen 2". Some breeding! We are all sold out except a few fall pigs at \$25.00 each. 3". O. BUTLER, Portland, Mich.

**Big Type Poland Chinas** Am offering a choice gilt, registered and cholera im-mune, with her cen pigs farrowed Apr. 1. Also best boar pig of April farrow raised last year; absolutely right, priced at \$75. Wesley Hile, R. 6, Ionia, Mich.

P. 6. bred gilts sold. For sale herd boar prospect 17 mo. 200-30, wgt. 600 lb. with quality, sire Buster Giant, 200533, dam Nemo L. 545940 an 501 lb. sow in fiesh. Sire sold for \$1500, priced reasonable. Free Livery from Parma. W. E. LIVINGSTON, Parma, Mich.

Big Poland Chinas with quality. For fall gilts, open or bred. G. A. BAUMGARDNER, R. 2, Middleville, Mich.

L. S. P. C. Bred sows all sold, 2 boars ready for service also I fall boar, and fall gilts to breed for fall farrow.

H. O. SWARTZ, R. I, Schoolcraft, Mich.

Big Type Poland-Chinas pigs, stred by C. A. King Joe 250231, by King Joe 25127, Monster Big Bob 3:7623, by Luken's Big Bob 25777; Buster Half Ton 28625, by Great Big Half Ton 251245. Out of sows, whose pedgree, individuality and quality are of equal merit as my herd boars. Can furnish pairs and trios, not akin.

C. A. BOONE, Blanchard, Mich.

MICH. Champion herd of Big Type P.C. Nothing for sale but fall pigs; orders booked for spring pigs.
E. R. LEONARD, St. Louis, Mich.

Big type P. C. fall boars the big prolifice kind, their breeding traces to the best herd in III, Iowa, & Neb C. E. GARNANT, Eaton Rapids, Mich

Large Type P.C. Nothing for sale now. Will be in market with better than ever this fall. If herd stuff counts.

W. J. HAGELSHAW, Augusta, Mich.

Big Type P. C. boar and bred gilts. Choice Aug. pigs at a bargain. Saline, Mich.

Big Type P. C. Choice bred sows from Iowas greatest herds, the big bone prolific kind with size and quality.

E. J. MATHEWSON, Burr Oak, Mich.

Dig Type Poland's all sold out, nothing for sale at present. Booking orders for spring pigs. Thanking my customers. L. L. Chamberlain, Marcellus, Mich.

Mammoth Poland Chinas all sold. General Jones heads our herd. Clyde Weaver, Ceresco, Mich.

MORE to the Kids of Mich: I have cold all the ewes that I care to sell, but judging from the many inquiries I have received there are many of you kids who still want to get started in registered ewes. Now then, here is a new proposition. I have selected one beautiful Sropshire ewe, she will tamb in the course of the next month; she is worth at least \$59.00. I will give this ewe, absolutely free, to the boy origin who gives me, in my opinion, the best reasons why they should be the one to get her. I may give away more than one. more than one. S. L. WING, Kope-Kon Farms, Coldwater, Mich

# SHROPSHIRE SHEEP

We have about 50 ewes in lamb for sale, of best breeding. Registered HARRY E. SAIER, Seedsman, 109-III E. Ottawa St., Lansing, Mich.

### BUYASHEEP

Wait a minute, buy Hampshires. The American Hampshire Sheep Association wants to send you a danly list to bookst with list of Breeders. Some near you. Write COMPORT A. TYLER, Secretary, 22 Woodland Ave., Detroit, Mich.

For Sale Bred Reg. Shrop. Ewes at a reasonable price also ewe lambs.
H. F. MOUSER, R. 6, Ithaca, Mich.

Shropshire Sheep Nothing to offer ARMSTRONG BROS. R 3 Fowlerville, Mich.



### SECOND EDITION.

The markets in this edition were revised and corrected on Thursday afternoon, April 17.

### WHEAT.

Notwithstanding renewed assurances of the splendid condition of the wheat crop of North America, consumption, both domestic and foreign, is expanding so rapidly that prices have advanced and are holding strong at the high feature. The government is now assurfigures. The government is now assur-ed that there will be no loss resulting from guaranteeing the fixed price on wheat to the American farmer. Flour is in strong demand and the call for feed is urgent. Receipts at country and primary elevators are small. The United States visible supply decreased 8,066,000 bushels during the week. One year ago the price for No. 2 red wheat was \$2.17 per bushel. Present Detroit

### CORN.

Strength in the provision market, bad weather and a good demand has improved the corn market and pushed prices above those of last week. Offerings at country elevators have been fairly liberal but the present storms over the corn belt will hold up delivery. Primary markets are not well supplied, there being difficulty in getting supplies from the country on account of car shortage. One year ago the local price for No. 3 corn was \$1.75 per bushel. Present Detroit quotations are:

No. 3 corn ..............\$1.62

No. 3	corn\$1.62
No. 3	yellow 1.65
No. 4	yellow 1.62
	yellow 1.59
No 6	yellow 1.56
No 3	white 1.65
110. 0	

New high levels are reached in the corn markets at Chicago, with No. 3 yellow at \$1.59@1.60½; No. 4 yellow \$1.57½@1.58½; May \$1.58¼.

### OATS.

Following the general reports that oat seeding has been restricted by wet ground, prices advance and hold firm. The visible supply decreased 492,000 bushels this past week. A year ago the local market quoted standard oats at 93c per bushel. Present Detroit prices

Standard	1	 	.71
No. 3 w	hite	 	.701/2
No. 4 w	hite	 	.691/2

On the local market rye is not acon the local market rye is not active but from other points there come reports that exporters are looking for the grain. Here the price is up to \$1.72 per bushel for No. 2 grade.

### BEANS.

The bean trade is holding steady to firmer. Prices for pea beans have changed but little. While there were quite a few imports since Wednesday of last week, these were far exceeded by exports to European points and elsewhere—the imports amounted to 2,028 tons of which 1,828 tons were Kothic and the exports aggregated 3,333 2,028 tons of which 1,828 tons were Koashis, and the exports aggregated 3,333 tons. White beans in Michigan producing sections are bringing from \$6@7. New York jobbers are taking Michigan white stock at \$7.50@7.75 and best marrows at \$11.75@12 and ordinary at \$10.50@11.50. There is nothing doing in Boston or on the local market. In Philadelphia the trade is steady at \$7.50@8 for Michigan pea beans and Chicago jobbers are paying \$7.75@8 for choice stock of the same variety from

Pittsburgh.—Market is somewhat easier with quotations about steady. No. 1 timothy \$34@34.50; No. 1 light mixed \$31@32; No. 1 clover, mixed, \$32@33; No. 1 clover \$31.50@32.

### POTATOES.

Feeling is easier on most of the markets, with prices slightly below the recent high level. Up-state prices to farmers are a little better than last week. At Michigan points prices to growers at warehouses now range from \$1.50@1.70, with the bulk at \$1.45@1.60. Wisconsin growers are receiving from \$1.60@1.70. At Detroit U. S. No. from \$1.60@1.70. At Detroit U. S. No. 1 are bringing mostly \$3 per 150-lb. sack; in Pittsburgh \$3@3.10; in Cincinnati \$2.20 per cwt; in Buffalo \$2.25 per cwt; in Indianapolis \$2.15; in Chicako \$1.75@1.80.

### BUTTER.

Prices have undergone a decline in the majority of the markets, although the majority of the markets, although in Detroit quotations are higher. Local receipts are small and buying active. At Detroit fresh creamery stock is jobbing at 60@61c per pound. Chicago trade is on a lower basis, with creamery at 55@61c. The spread of prices on the New York market is from 62½@65c and western extra creamery brings 64c in Philadelphia.

\$67; corn and oat chop \$54 per ton in 100-lb. sacks to jobbers.

HAY.

Prices continue to advance with the situation acute, consumers failing to find enough to satisfy their needs. Quotations are. No. 1 timothy \$34.50\overline{0}{0}\$35; standard timothy, light mixed at \$41\overline{0}{2}\$c and the Philadelphia trade is jobbing western extra firsts at \$13.20 and firsts at \$12.90 per case.

Back to jobbers.

40\overline{0}{2}c, while storage packed firsts at neau or other organizations in order to realize the full value of the fleeces.

GRAND RAPIDS

Potatoes took a sharp advance the latter part of last week, selling on the city market at \$1.20\overline{0}1.25 per bushel. At some points in western Michigan they advanced to \$1.60\overline{0}1.75 per cwt; at others \$1.25\overline{0}1.50. According to the government agent's report shipments at \$1.20\overline{0}1.50 and firsts at \$1.25\overline{0}1.50.

### POULTRY.

Poultry trading is dull and steady, with quotations for live as follows: No. 1 springs 35@36c; stags 30c; fat hens 40c; small hens and Leghorns 37@38c; roosters 25@26c; geese 27@28c; ducks 38@40c; turkeys 38@40c.

Orders for woolen goods are coming fast now and the mills see busy days ahead. Not only are American manu-facturers looking forward to supplying facturers looking forward to supplying their usual trade, but they are finding many promising outlets in new fields for liberal quantities of goods. For instance, France has lost a third of her textile machinery, and now with higher wages and natural unwillingness of the Frenchmen to use the latest type of mechanical there is much confidence. the Frenchmen to use the latest type of machinery, there is much confidence that the mills of the United States will have generous orders from that country. In England, too, higher wages, shorter hours for labor and more expensive fuel and other supplies are most certain to cut down production to tive. At Detroit fresh creamery stock is jobbing at 60@61c per pound. Chicago trade is on a lower basis, with creamery at 55@61c. The spread of prices on the New York market is from 62½@65c and western extra creamery brings 64c in Philadelphia.

EGGS.

The general conditions remain about the same in this market, with consumption sufficiently large to care for the liberal receipts. Extra firsts in new cases are quoted on the Detroit ducers are considering the plan of ship-

reau or other organizations in order to realize the full value of the fleeces.

GRAND RAPIDS

Potatoes took a sharp advance the latter part of last week, selling on the city market at \$1.20@1.25 per bushel. At some points in western Michigan they advanced to \$1.60@1.75 per cwt; at others \$1.25@1.50. According to the government agent's report shipments of cars out of the state to date total 7,217, which is 958 more than to even date a year ago. The market is strong and receipts light at many shipping points. The last shipment of onions in carlots was made Saturday from western Michigan. During the season orders were filled for Cuba and to points south. Jobbers in beans pay growers in Grand Rapids market area \$6 per cwt. for white and \$7 for red kidneys. At some shipping points in western Michigan dealers are paying \$5.50 to farmers. Several pits of rutabagas, turnips were opened last week at the growers and sold at \$1 per bushel. At all points in western Michigan hay is held at \$30@31 for loose timothy.

### THE NEW YORK PRODUCE MAR-KET.

Butter.—Indications of the near arrival of spring have caused receivers to be more than anxious to keep their stocks cleaned up. As a result the market has been keenly sensitive during the week and the slightest variation in general conditions has caused a fluctuation. As a whole, supply has just about equaled demand and while there have been changes in price the there have been changes in price the market closed with practically the same established quotations as at the end of, last week. Export demand continues at the part of the same established strong but as there is a scan tinues strong but as there is a scar-city of shipping space purchases for shipment abroad are necessarily small.

city of shipping space purchases for shipment abroad are necessarily small. Receipts are increasing and unless more shipping space can be secured to care for a greatly increased export demand a marked decline in values can not be averted. At the close on Friday established quotations were as follows: Extras 65½c; higher scoring than extras 66@66½c; firsts 63½@65c; seconds 61@63c.

Cheese.—There has been a steadier tone to the market during the week and western markets also indicate a firmer condition. Reports indicate a material increase in production in western cheese producing areas but as yet the production in New York shows no change of any consequence. Exporters are active in the market but have taken no large quantities as yet. However, it is expected that the demand of exporters will become stronger later in the spring and will continue er later in the spring and will continue ue active throughout the season. Curue active throughout the season. Current make, average run cheese is quoted at 31½ @33c. Chèese of higher quality is quoted half a cent higher. Held cheese vhich is in scant supply, is selling at 35@38c.

Eggs.—While the market has been irregular during the week the tendency has been for the market to strengthen. Receivers have been unwilling to purchase eggs outright because of the

purchase eggs outright because of the high prices asked and as a result great nigh prices asked and as a result great quantities have been placed in storage. Naturally, such withdrawals have had a sustaining effect on the market. The market closes strong with firsts quoted at 41½@43½c and extra firsts at 44@4½c. Nearby hennery whites are selling at prices varying from 46@51c.

# Live Stock Market Service

# Reports for Thursday, April 17th

On today's market pigs sold at \$20 and other grades at \$21@21.15. Clipped lambs \$17; wool lambs \$20; calves brought \$17. Cattle trading is slow.

### CHICAGO.

CHICAGO.

Hogs.

Estimated receipts today are 32,000; holdover 8,282. Market opened 10c lower but weakening and mostly 15@20c lower from high time of Wednesday. Bulk of sales \$20.35@20.70; tops \$20.80; heavy, 250 lbs up, medium, good and choice \$20.60@20.80; medium 200 to 250 lbs, medium, good and choice \$20.40@20.75; light, 150 to 200 lbs, common, medium, good and choice \$19.90@20.60; light lights, 130 to 135 lbs, common, medium, good and choice at \$18.75@20.35; heavy packing sows, 250 lbs up, smooth \$19.50@20.10; packing sows, 200 lbs up, rough \$18.50@19.50; pigs, 130 lbs down, medium, good and choice \$17.50@18.75.

Estimated receipts today are 8,000.

Estimated receipts today are 8,000. Beef steers and butcher stock 15@25c higher. Calves slow; early sales are steady. Beef steers, medium and heavy weight, 1100 lbs up, choice and prime \$17.75@20; do medium and good \$14.25@18; do common \$7.55@14.40; light weight, 1100 lbs down, good and choice \$15@18.70; do common and medium \$10.25@15.40; butcher cattle, heifers, common, medium, good and choice \$8@15.65; cows, common, medium, good 

down, medium, good, choice and prime \$18@19.75; do 85 lbs up, medium, good, choice and prime \$17.75@19.60; do culls and common \$14@17.75; spring lambs, medium, good, choice and prime \$15.75@18; yearling wethers, medium, good and choice \$12@15.50; ewes, medium, good and choice \$6@12; feeder lambs medium, good, choice \$15.25@17.

# BUFFALO.

BUFFALO.

Wednesday, April 16, Cattle.

Receipts 20 cars. Market 25@40c lower; prime heavy steers \$17@17.75; best shipping steers \$15@16; medium shipping steers \$13.50@14; best native yearlings, 950 to 1,000 lbs \$15@16; light yearlings, good quality \$14@14.50; best handy steers \$13.50@14.50; fair to good \$12@13; handy steers and heifers, mixed \$12@13; western heifers \$12.50@13; best fat cows \$12@12.50; butcher cows \$9@10; cutters \$7@8; canners \$5@6; fancy bulls \$10@11; butcher bulls \$9@10; best feeding steers, 900 to 1000 lbs \$11@12.50; medium feeders \$10@11; stockers \$10@10.50; light stockers \$8@9; milkers and springers \$75@150.

Hogs.

Receipts ten cars. Market higher.

Hogs.

Receipts ten cars. Market higher.

Heavy \$21@21.75; yorkers \$21@21.15;
pigs and lights \$20@20.25.

Sheep and Lambs.

### NEWS OF THE WEEK.

### MICHIGAN CROP REPORT.

Wheat.—The condition of wheat on April I, was 94 in the state, 96 in the southern counties, 91 in the central counties, 90 in the northern counties and 87 in the upper peninsula. The condition one year ago was 70 in the state, 64 in the southern counties, 79 in the northern counties and 95 in the upper peninsula. The central counties, 79 in the northern counties and 95 in the upper peninsula. The average depth of snew in the state on March 15 was 0.86 and in the southern counties 0.40 of an inch, in the central counties 1.13, in the northern counties 1.34 and in the upper peninsula 4.17 inches. On March 29 the average depth of snow in the state was 0.24, in the southern counties 0.33 of an inch, in the northern counties 0.33 of an inch, in the northern counties "none" and in the upper peninsula 1.27 inches. The number of days portection to wheat by snow, was six in the state, four in the southern counties, seven in the central counties, 10 in the northern counties and 15 in the upper peninsula. In answer to the question, "has wheat during March suffered injury from any cause," 57 correspondents in the southern counties answer "yes" and 115 "no," in the central counties 29 answer "yes" and 48 "no," in the northern counties 20 answer "yes" and 23 "no" and in the upper peninsula three answer "yes" and 48 "no," in the northern counties 20 answer "yes" and 23 "no" and in the upper peninsula three answer "yes" and 10 "no." The total number of bushels of wheat marketed by farmers in March at 96 flouring mills is 66,630 and at 54 elevators and to grain dealers 15,712 or a total of 82,392 bushels. Of this amount 57,928 bushels were marketed in the southern four tiers of counties, 18,130 in the central counties and 6,334 in the northern counties and upper peninsula. The estimated total number of bushels of wheat marketed in the eight months, August March is 4,650,000. One hundred and twenty mills, elevators and grain dealers report no wheat marketed in March.

Rye.—The average condition of rye in the state is 95, in the

grain dealers report no wheat marketed in March.

Rye.—The average condition of rye in the state is 95, in the southern counties 97, in the central counties 91, in the northern counties 93 and in the upper peninsula 92. One year ago the condition in the state was 77, in the southern counties 73, in the central counties 78, in the northern counties 33 and in the upper peninsula 96.

Meadows.—The average condition of

Meadows.—The average condition of meadows in the state is 82, in the southern counties 80, in the central counties 83, in the northern counties 86 and in the upper peninsula 88. The condition in the state one year ago was 85, in the southern counties 82, in the central counties 86, in the northern counties 88 and in the upper peninsula 96.

counties 88 and in the upper pennisula 96.

Live Stock.—The average condition of horses and swine in the state is 95, cattle 94 and sheep 97.

Fruit.—The following table shows the prospect for an average crop of the various kinds of fruit in the state and the different sections as reported by fruit correspondents: fruit correspondents:

State.	Sou. Co's	Cen. Co's	Nor. Co's	Up. Penir
Apples 79	81	71	78	97
Pears80	80	79	84	79
Peaches .68	67	58	80	
Plums84	84	85	86	100
Cherries 85	85	77	89	94
Small frt 88	85	86	89	98

In regard to the question, "what per ent of orchards are being sprayed," correspondents report 40 in the state, 41 in the southern counties, 35 in the central counties, 51 in the northern counties and 29 in the upper peninsula.

Grain seed threshed in Michigan for the season of 1918-19 up to and including April 1, 1919, per returns of threshermen is as follows:

ermen is as follows:						
		4 (1984)	Yield			
			acre,			
	Acres.	Bushels.	Bush.*			
Wntr wht	653,001	9,169,230	14.04			
Spg wht	43,208	777,773	18.00			
Rye	475,400	6.810.834	14.33			
Oats1	,580,936	62,246,234	39.37			
Speltz	9,412	257.801	27.39			
Barley	279,698		29.89			
Buckwht	41,687	376,535	9.03			
Pears	20,897	301,278	14.42			
Seed:		estation of the second				
Timothy .	766	1.806	2.36			
Clover			0.98			
Beans	363,883		9.05			
		the 1918 and	1919			
threshing sea	son.	one role and	1010			
DESCRIPTION OF THE PROPERTY OF			TOTAL PROPERTY AND ADDRESS.			

With hogs advanced to about the highest prices ever paid in the history of the swine industry, farmers who had been counting on reducing their corn acreage this spring and sowing wheat are reconsidering the matter and are deciding that it will be best to grow plenty of corn and plenty of hogs. Never before were the world-wide requirements for hog products anywhere near so great as now. Hogs are biggest rent payers lever known, and there is no danger of having too many on the farm.

With hogs advanced to about the highest pive vicience, the cive vicience, the



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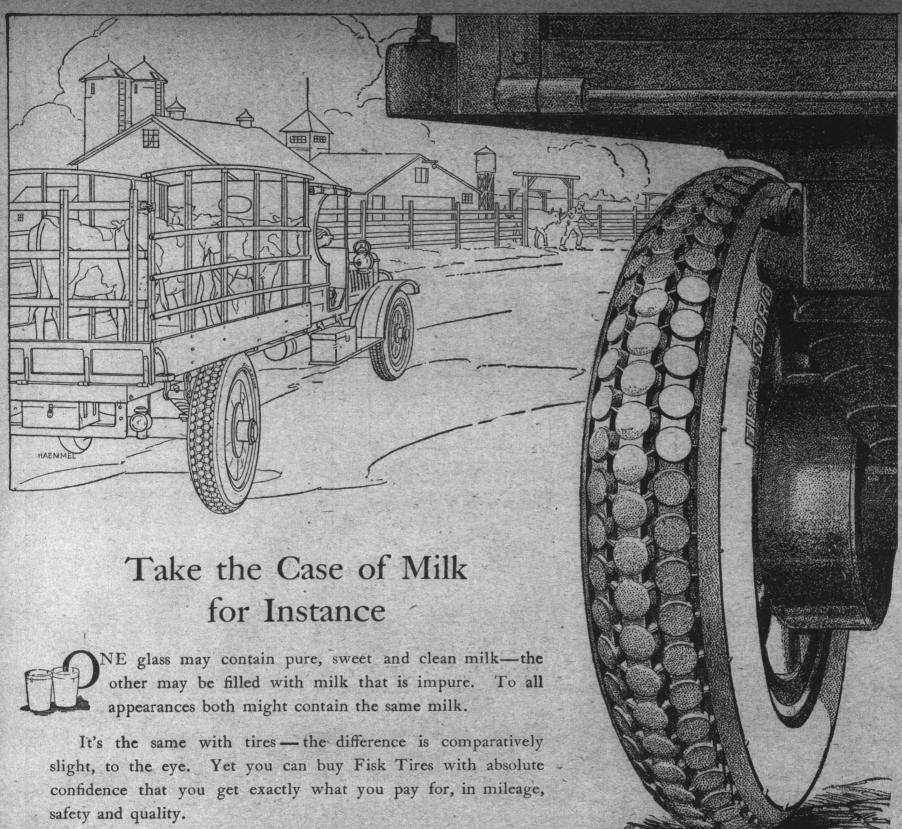
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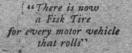


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