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DEVOTED TO MICHIGAN

VOLUME CLVIX.



A Practical Journal for the Rural Family

QUALITY RELIABILITY SERVICE

NUMBER TWENTY-THREE

Pruning Apples for Profit

Make Your Pruning Shears Put Profit Into the Tree Instead of Cutting It Out

By Roy E. Marshall
Associat: Professor in Horticulture, M. A. C. ANY Michigan fruit growers have decided, yet different, views in regard to the kind of pruning that both young and bearing apple trees should receive, but a greatcome the main scaffold branches of the tree. This system of development er number of growers have no clearcut ideas. The latter group talk with does permit the entrance of sunlight reply to today is "how heavily should one neighbor and are convinced that he has sound ideas until another equalmaking possible economical pruning, ly successful fruit man presents his spraying, thinning, picking, etc., but apparently sound reasons for adhering to a very different pruning practice. is not uncommon to see main branches Even the professional horticulturists, and those who pose as such, present trained in such a manner split out at

differently.

The question that the average fruit grower would like a definite, sound and it results in a low-spreading tree, trees be pruned between the time of planting and time of bearing?" or, worded differently, "should trees be the trees are structurally weak and it left without any pruning except that given at planting time, until they have of bearing trees which have been established the bearing habit; should they receive severe pruning throughout this non-bearing period, or should very different arguments. One of the the crotch. Furthermore, such trees are frequently more limited in bearing they receive some intermediate treatcapacity than those trained somewhat ment?

Experiments, as well as observations The serious faults of the above sys- have proven that unpruned trees come

ate between the two extremes. Unfortunately, experiment stations did not start work early enough to be able to advise us at this time as to the best treatment to follow. Experiments were started at the Graham Horticultural Experiment Station near Grand Rapids in the spring of 1919 which will throw considerable light on this whole question in the course of another five or ten years. We will soon know how much earlier non-pruned trees come into bearing than heavily or moderately pruned ones, but it will be several years before definite information is available as to the most economical kind of pruning in so far as results over a period of fifteen to twenty

years are concerned.

My own opinion is that we cannot afford to take chances on letting permanent trees shape themselves or in no pruning of young trees. These trees are expected to remain profitable until they are sixty, eighty or more years of age, and we should not allow any development of branches to take place that may result in the breaking down of the tree or its parts previous to the attainment of such an age. On the other hand, I believe the practice of severe annual pruning of trees until they are eight or ten years of age is less called for than that of no pruning because fruit production is delayed longer than the average orchardist can afford to delay it and there is apparently nothing to be gained in continuing the heavy, or even moderate, pruning beyond the fourth or fifth

It would appear that moderate pruning, of young apple trees is the safest practice to follow. It should result in the formation of a rather strong framework with scaffold branches well placed and should bring the trees into fruit production not more than one or two years later than no pruning. Surely the sacrifice of one or two years is not as important to the average fruit grower as is the building of a reasonably strong tree. Such a pruning should consist of rather heavy cutting back and thinning out at planting time; a

(Continued on page 590).



Early Variety Needs Different Pruning Treatment.

one of the several that is conducting experiments that should throw some light upon several of the more important pruning problems. These experiments have not been in progress long enough to provide us with much information but in the meantime careful observations are being made of the several practices in operation in commercial orchards and they are largely the basis for such recommendations as are made. A considerable number of fruit

leading farm journals carried an arti-

cle written by a rather prolific writer

several months back, which advocated

a very radical treatment of young

trees and unfortunately many Michi-

gan orchardists had sufficient confidence in the man or the journal to

adopt the "butchery-like" practices.

But isn't it logical that the greater

number of fruit growers are "at sea"

when such divergent views are pre-

The Michigan Experiment Station is

sented?

growers, knowing that sunlight should be admitted to the center of the tree to keep up production to get highlycolored fruit in the interior parts, believe it necessary to develop a tree with an open center from the point of heading. Immediately after the tree is planted they remove the central or main branch and save some three to five branches radiating outward and upward from the point of heading. These three to five branches later be-



This Six-year-old Tree Received Moderate Pruning for Five Years. Present Pruning is Light, Early Production Should Result.

tem of training young trees may be into bearing earlier than pruned trees avoided and at the same time the ad- and that heavily pruned trees are oldvantages may be retained if the so- er before they start bearing than lightcalled leader system of development ly pruned trees. Furthermore, unprunis adopted. This system consists es- ed trees attain larger size in a given sentially of a central leader, extending number of years than pruned trees and upward to a height some six to seven the more severely pruned trees attain feet from the ground and with six to less in size in, say, seven or eight nine main or scaffold branches distributed around and along the central facts lead some fruit growers to conbranch from the point of heading to clude that since unpruned trees come the top of the central leader. The into bearing earlier, that such a pracleader is discontinued after the desired tice is the most profitable one to folnumber of scaffold branches are obtained and the trees developed from er severe pruning may be given after that point essentially the same as an the trees have the bearing habit wellopen center one. Since it is not possible to get the desired number nor production and that this treatment will proper distribution of scaffold branches in one season, it is customary to years place the trees, that were not select two or three of the scaffolds pruned during the first few years, in each year until the desired number is good condition. obtained. Two to four seasons are Another group of fruit growers are thus required to build the framework not as particular about getting early of such trees

The scaffold branches of modified leader trees form strong crotches with the central leader or axis which seldom split. Pockets are seldom formed in crotches to collect leaves and dirt and eventually result in heart rot of the trunk as sometimes happens with tree open to admit light to lower interior parts than it is to have the trees two or three years earlier. whole central portion of the tree open at the expense of fruiting capacity.

years than lightly pruned ones. These low. These growers contend that rathestablished without interfering with in the course of some three or four

fruit production as they are in building the strongest and sometimes the most ornamental kind of tree possible. They contend that the first four to six years should be devoted to the development of a strong framework that will support larger loads of fruit when the tree becomes old. In other words, open center trees. Furthermore, it is they believe that heavier fruit producbetter to have the upper part of the tion at an age of thirty years is more important than getting fruit on young

> Then there are the orchardists who practice a kind of pruning intermedi-



A Severely Pruned Ten-year-old Tree that Has Not Produced Fruit, and which Will Not as Long as Fruit Wood is Kept Cut Off.



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DETROIT, DECEMBER 2, 1922

CURRENT COMMENT

THE MICHIGAN FARMER SAYS:

Our great object should be to take the "cull" out of agriculture.

No pure form of social or domestic life is developed except among people engaged in productive labor.

name of "learning." True intelligence needs no pretention to assist it.

If potatoes were dollars, what a fine lot of millionaires we would have.

Rural life develops family unity, while city life tends to destroy it.

The Ship Subsidy Bill

CONGRESS is now at the call of Presi- favor. dent Harding for the

subsidy bill. The President and his measure as well as a measure for the immediate financial relief and future dications are that there will be a determined fight against the measure by of the country, who oppose the subsidy in principle.

where it is expected to come to a vote before this issue reaches its readers. is either more practical or more fair. Current press reports indicate that the Certainly an insurance of adequate bill will be opposed by at least four production of staple foodstuffs, even in members of the Michigan delegation adverse years is of greater importance Should it pass the house, a determined maintenance of subsidized facilities fight will be made against it in the for their transportation. senate under the leadership of Senator Capper, Chairman of the Farm Bloc. Our readers will be kept informed as to the progress of the fight.

The proposition involved is more or less familiar to every well-informed citizen. During the war the governcluding both wooden and steel vessels of all sizes and many types. The re-

war the government found itself in production to market demand. possession of this vast fleet of ill-asping board was confronted with a diflars a month. Finally the wooden ment. ships were scrapped as an economy measure and only the most fit of the fifteen hundred steel ships were kept in commission, with a reduction in the operating loss of about four million dollars per month. Now as a means of getting from under this operating loss the administration proposes a ship subsidy to aid privately owned and operated ships. Under the terms of the bill the ships would be sold at a world market price to private investors, who would be given a government bounty for their operation. In addition shippers would under the provisions of the bill be given a rebate in federal taxes of a fixed percentage of the freight collectively, will receive. paid on the cargoes of these ships.

The strong urge being used to secure the passage of this bill is the future safety of the nation. But other arguments, some of them far fetched, are being used. Here is an example: In a recent address at Chicago, Chairman Lasker, of the shipping board, forest is gradually increasing. There compared the subsidy to the tariff, asserting that it was parallel in principle. But his illustration of the point was most unfortunately chosen, in that he compared it with the tariff on wheat care for coming demands. and corn as a protection to the farmers. Unfortunately the tariff does not work that way, since the price obtain-Much pretention goes under the able for the surplus of these products in the world market fixes the price on the whole crop, less the cost of excessive transportation rates. The ship subsidy would not reduce these rates. There is little certainty that it would accomplish the results claimed for it. It is another experiment in the realm of special privilege, which we do not believe the farmers and common peoin special session ple of this country look upon with

In his subsidy message the Presiconsideration of the dent mentioned the legislation contemadministration ship plated for the relief of the farmers of the country. We believe that practical aids are urging the early passage of relief could be given to the farmers this bill with all the power at their of the country by lowering the freight command. It is being urged as a party rate to seaboard of foodstuffs for export. This would tend to restore the parity between the price of farm prodsafety of the nation. But present in- ucts and general commodities and the purchasing power of the farmer's dollar. And it would not be in the nature strong majority party members of both of a special privilege. It would do for houses from the agricultural sections him only in a measure what the tariff now does for the manufacturer. This idea would no doubt be considered im-At this writing the bill is being con- practical by the advocates of the ship sidered in the lower house of congress, subsidy bill. But there seems small reason to believe that the ship subsidy who have the agricultural viewpoint, to the safety of the nation than is the

> Most Out of It

Getting the summer by President

shipping. Ship building was rushed dent Friday addressed members of the structive labor is done in cooperation with feverish heat. The type of con- staff of the United States Department with their parents who have their welstruction was varied in accordance of Agriculture at Washington in re- fare at heart more than anyone else. with diverse and changing ideas, in- sponse to an invitation by Secretary Wallace.

He outlined details of his program sult is admittedly unsatisfactory from to develop the agricultural resources the standpoint of a well-balanced and of Michigan through emphasizing the useful merchant marine for commer- value of such crops as alfalfa and the

These matters attracted the attensorted ships, for which there was no tion of the secretary of agriculture will draw its good moral fiber and market and no present use. The ship-during his recent tour through Michi-sterling manhood and womanhood. gan when he had opportunity to hear ficult problem, which it tried to meet at first hand the program laid down by government operation of this mer- by President Friday. Such a program chant fleet. The result was an operat- however, could not be carried out uning loss of some sixteen million dol- der all conditions of rural develop-

The high degree of cooperation between the various agricultural agencies in Michigan make possible the realization, in part, at least, of this venture by President Friday. No doubt, however, the results will be more or less spotted. Those communities which take active part in this program through prophetic leadership and with effective cooperative machinery will profit far more than will the unorganized or less aggressive sections. In other words, the degree to which our farmers go after the fruits of this scheme will measure the advantages that they, individually and

Taxing the Wood

W E all know too well that timber-producing trees are becoming scarce, while the demand for the products of the

is a high degree of uncertainty about the future of the lumbering business and no adequate program has been formulated in this state or country to

This week a conference of those whose interest, or duty, lead them to give consideration to the forest situation will be held at Lansing. Ways and means of protecting coming generations from a forest famine are to be examined from every angle.

It is presumed that a little legisla tion will be needed to inaugurate a state-wide scheme for forestry devel opment. In this connection, two ques tions seem uppermost. One is the proper protection of forest lands from fire and the other is the relief of timber-producing acreage from the annual tax burden. If this long-term crop can be required to pay tax only at harvest time a great stimulus will be given to the production of timber on a large scale as well as in the farm wood-lot.

On Child Labor

D URING the past few years much attention has been given to child labor, and rightly so, for the conditions under

which many children have been working have been entirely detrimental to their well-being.

These conditions existed almost entirely under city conditions and outside of the influence of the family. They have virtually made children slaves and have destroyed their moral and physical fiber. Legislation has remedied these evils, but it has not remedied the evils of child idleness from which many city children suffer. To many students, this latter is of greater importance than the former was. The idle mind is very suscepti-THE bold program was. The idle mind is ble to evil influences.

Labor under wholesome conditions elege, has attracted nathe young people on the farm are in a ment accumulated a vast amount of tion-wide attention. Last week Presi- very fortunate position. Their con-The work they do is healthful, wholesome and instructive. Even their idle moments are most usually engaged in playing with pets or in some other wholesome diversion.

A good foundation is very essential cial use. The cost to the government necessity of ridding farms of inferior for successful living and there is no was necessarily high, totaling three live stock as well as developing local better place to build a good foundation

billion dollars. At the close of the markets, and correlating agricultural than amidst rural surroundings. Because of this rural sections will always be the reservoirs from which America

> Farmers' Clubs' Program

FOR two days during the first week of December, delegates from the farmers' clubs of Michigan, and friends, will

listen to a very instructive and highly entertaining program at their annual meeting held in the senate chamber of the Capitol Building at Lansing. The copy of the program reached us too late for publication.

A few of the many splendid numbers in this varied program may be suggested here. For instance, Professor Henderson, of the University of Michigan, will speak on "The Signs of a New World." Professor Tenant, of M. A. C., handles marketing problems. A number of talks on juvenile work will be presented, among these, "Boy and Girl Life in the Open County," by Mr. Turner, our state club leader. Dr. Diehl, of Albion College, is well fitted to speak on "Spiritual Values in Country Life." The eighteenth amendment could have no stronger defender than Congressman-elect Grant Hudson, while rural education will be presented by Superintendent of Rural Education, Professor Otwell, of Lansing. The remaining good things in this program will be thoroughly enjoyed and appreciated by all who attend the annual meeting on December 5-6.

There are thousands of farm folks who cannot afford to miss this treat.

Ambishun

MBISHUN is what makes the dif-A ference between man and other animals. It's what makes man better than a monkey, but because he's got it, man often does better than the monkey does in making a monkey of himself.

For inst., Jasper Watkins smokes and wears a celluloid collar at the same time. Now, no man what got sense would do that, 'cause fire insurance companies won't insure a man's life when he does those two things

together. Now, a monkey wouldn't think a doin' either one, together or separate.



If it wasn't for ambishun, Sophie and me and the kids would be roostin' in trees. with pickin' fleas

as our principle recreashun. But sposin' I had no ambishun at all, which is purty near what I and lots a other folks's got, me and my fambly couldn't live in trees, 'cause our what you call fourfathers was ambishus. We would be arrested for followin' our natural inclinashuns, 'cause we are livin' on what their ambishuns did for us.

Ambishun is what made civilizashun and civilizashun is what made work. The more civilizashun the more work, and the more work, the more civilizashun. That's why I ain't so civilized as some folks.

It's ambishun what made Joe Hunter Friday, of the Michi- is necessary to the well-rounded de- run for constable. But he musta' been gan Agricultural Col- velopment of the child. In this respect short-winded, 'cause he run quite a little behind the other fellow. Anyhow, Joe still thinks he'd make a mighty good governor. And bein' that Joe is ambishus, maybe the people will want him to prove it some day.

> There's lots of different kinds of ambishun. For inst., Sophie thinks my secret ambishun to be a writer is what you call real foolish. She says even a monkey would have better judgment. If that's so, I guess I'll just keep on makin' a monkey of myself.

HY SYCKLE.

Poultry Hygiene and Sanitation

Suggestions on How to Prevent Disease Which Costs Poultrymen Untold Loss

ECENT years have seen some valuable developments in poultry science. The art of culling has reached a stage of perfection which is remarkable to say the least. Im- human species. Today we see to it provements have also been made along the lines of feeding and housing, all of which has contributed toward decreased cost of production and increased returns until poultry husbandry has been placed among our most promising agricultural pursuits. Since this industry has attained such an economic importance the necessity of protecting it from all undermining forces should be evident. Looking over the field of poultry husbandry with this

ease, is being overlooked or even ignored. There can be no question as to the comparative production value of a healthy and a diseased flock. In the report of the secretary of agriculture for 1915 we find that financial losses due to diseases in poultry amounted to \$8,750,000. Thus disease prevention is of vital importance to

point in view it appears that one of

the most essential factors governing its stability, namely prevention of dis-

the poultry breeder.

His interest in this matter is also shared by others. The swine breeders are interested in the eradication of avian tuberculosis because of the fact that a considerable number of hogs which go through the packing plants are condemned as unfit for human. consumption, due to this disease. As a general rule the public is desirous of eliminating disease from food-producing animals. Poultry products are not yet subject to the strict ordinances that govern the sale of milk, pork, mutton or beef, but it is very possible that they will be included sooner or later. Chickens marketed for food are there may be some doubt as to the advisability of consuming products from diseased birds, even if there are no immediate outward manifestations of damage to health.

In earlier days animal disease was not considered to be of any serious alleviate suffering were limited to the communicable diseases.

By H. J. Stafseth, Dept. of Bacteriology, M. A. C.

Every modern poultry breeder is and that all kinds of domesticated animals should be anxious to obtain and mainreceive medical attention. The meth- tain stock of high quality. For this ods of dealing with diseases have reason he is often led to buy adult changed. While in former years the birds day-old chicks or eggs for hatchchief aim of the medical man was to ing from flocks that have gained a cure the sick, the tendency is now to wide reputation either as exceptionprevent and eradicate disease. Due to ally good layers or excellent show their high value some domesticated birds without seeking the slightest inanimals will perhaps always be treated formation as to whether or not the individually. In poultry this will be flocks concerned are free from comthe case only exceptionally. No great municable diseases. This is a serious amount of success has been derived mistake because birds introduced from

The Flock of E. E. Shaw, Whose Pen Leads in Michigan Laying Contest.

diseases as may affect the flock as a his flock is in good health. whole. It is therefore nutritional and er, first: Selection of healthy stock;

from individual treatment in poultry diseased flocks are quite certain to diseases and the cost of application bring the infection with them, even if will often exceed the value of the bird. they are apparently well at the time of Thus the poultryman is not so much the purchase. In this way a formerly concerned with ailments tending to healthy flock may become diseased and affect the individual as he is with such no poultryman can do his best unless

Through the science of bacteriology frequently found to be diseased and communciable diseases that should re- we have learned that certain communiceive the main portion of our atten- cable diseases are so insidious in their tion. Heredity and environmental con- nature that symptoms are not revealed ditions may contribute to health or for relatively long periods of time. It disease. Thus we find that in dealing has also been found that individuals second, housing; third, feeding, and the causative organism. Infectious orby individuals which never have been from this disease. (To be continued).

visibly ill and may prove to be immune to the disease to which they have been exposed. Such individuals are often the cause of considerable trouble, due to the fact that they appear perfectly harmless and thus make it exceedingly difficult to discover and eliminate the source of infection. For these reasons it should be evident that mere inspection or physical examination will not reveal all that might be of importance to know regarding health. Therefore, besides showing signs of productivity, vigor and vitality the flock from which new stock is to be introduced should have a clear record as regards freedom from disease.

In this connection it may also be well to compare the adult bird, the day-old chick and egg as means through which infection might be introduced.

Adult birds may, without showing any signs of illness, carry the causative organism of the following communicable diseases: Bacillary white diarrhea, chickenpox, tuberculosis, fowl cholera, fowl typhoid, blackhead, coccidiosis, apoplectiform septicemia, fowl plague, and perhaps still others, besides various internal and external parasites.

The day-old chick is perhaps the most common means of spreading bacillary white diarrhea. As to whether or not other diseases are spread through the day-old chick but little is known. It appears, however, from information available at this time that the day-old chick may be considered a negligible factor in the dissemination of other diseases than bacillary white diarrhea.

Eggs bought for hatching may harbor the cause of bacillary white diarrhea. Shell contamination does not seem to be of any great importance as far as most diseases are concerned. It has been suggested that blackhead may be spread in this way.

As bacillary white diarrhea infection with poultry hygiene we must consid- which have recovered from an infec- is easily discovered in breeding stock tious disease may continue to carry by means of the agglutination test it seems rather unnecessary that great consequence. Almost all efforts to fourth the prevention and control of ganisms may, furthermore, be carried losses should occur year after year

Seeds with Vim, Vigor and Vitality

Faith in Such Seeds is the Basic Consideration in the New Farm Enterprise Being Formed in Antrim County

was cleared of stumps some eighteen years ago by one Solomon Brown, five years alfalfa. a nephew of Old John Brown of Civil War fame.

Solon on Brown was a potato dealer as well \s a farmer, so he erected a potato warehouse 40x100 feet, with a side track on the G. R. & I, which passes through this land. Three years ago the warehouse burned, but the side track remains and is being used by the present owners.

Last spring this farm was purchased by H. C. Moore, L. L. Drake and W. C. Cribbs, securing possession on May 26. These men, who are all connected with extension work of the Michigan Agricultural College, are making a seed production institution out of the place. Their idea is to produce nothing but certified Rural Russet potato seed and Hardigan alfalfa

On account of the late start they were only able to get forty acres of certified seed growing this year. When under full operation they intend to

"M-13" lies a section of land which acres of alfalfa, which will make a six- cial fertilizers will be used. year rotation of one year potatoes and

off only alfalfa seed and potatoes. were used.

FIVE miles south of Mancelona, on grow 100 acres of potato seed and 500 When potatoes are planted commer-

This season June grass and some sweet clover were turned under for The plan is to build up the soil by the benefit of the potatoes and then the growing of alfalfa. They will take 400 pounds of 3-10-4 fertilizer per acre



THESE grade Jerseys from the herd of L. C. Pedersen, of Allegan county, illustrate the excellent type that can be developed through the use of good pure-bred sires. The average production of his herd of ten cows for a period of ten months was 5.758.9 pounds of milk and 299.1 pounds of butter. He is a member of a cow-testing association.

In spite of the late start and the finishing of planting on July 1, the yield was 150 bushels per acre; unfertilized strips producing about four-fifths this yield. On one plot, where 900 pounds of fertilizer per acre were used, the yield was greatly increased. A larger application will be used in 1923, when 110 acres will be planted in one field.

This farm is very level, there being only a variation of fifteen feet in altitude, with the exception of twenty acres which will be reforested in 1923.

The owners of the Antrim Seed Farm have been moving spirits in the development of the Russet Rural (Petoskey) potato. The standing of the Petoskey as a seed potato has been quite largely due to their efforts.

H. C. Moore, a graduate of Cornell University, has been with the Michigan Agricultural College for five years as extension potato specialist, and secretary of the Michigan Potato Producers' Association for the last four years. The development of the certified seed potato for Michigan was partly the results of his efforts to put Michigan in the foreground as a seed potato

state. He recommended that Michigan fields of good potatoes until reaching Mr. Moore is known wherever the Michigan Rural Russet seed has been planted.

ricultural College. He is supervisor ty, Michigan. of county agents in the potato counties of the state, having been chosen by them as their chairman at a county agents' conference in 1921. His selection was due to the record he had made with the potato seed of his county. For two years Mr. Drake was county agent of Antrim county, following the resignation of W. C. Cribbs, who resigned to enter the department of markets at the Michigan Agricultural College.

Before taking up county agent work Mr. Drake was superintendent of the Traverse City State Hospital Farm for two years. His outstanding work in Antrim county has been the development of markets for certified potato seed grown under his direction. He sold a car of Rural Russets to the extension department of Pennsylvania. These were potatoes grown by Antrim county growers in 1919 and were not certified, but were field inspected, for at that time Michigan had not yet taken on the work of certification of potatoes.

This car of Russets was planted in 118 test plots with seed from four of the leading potato states that were certifying their seed and the Antrim seed from Michigan won first place in 116 out of the 118 tests.

The following year Mr. Drake assisted the Antrim county farmers in selling eighteen cars of certified seed in Pennsylvania and last year they sold forty-two cars in that state at eighty cents per bushel above the price paid for table stock potatoes. There were over fifty cars of certified seed produced in Antrim county in 1921 and the balance not sold in Pennsylvania was used to plant the 1922 crop within the county.

The potatoes sold in Pennsylvania and planted there last spring have held their place in out-producing seed from other states.

W. C. Cribbs was engaged in fruit raising in Berrien county until January 1, 1918, at which time he became county agricultural agent for Antrim county. Potato work was the large problem for that county. After some investigation he recommended the standardization of the Petoskey Rural Russet for the lower peninsula of Michigan, he being the first person on record to suggest a single variety for this section. In less than two years around eighty-five per cent of all potatoes grown in the commercial secvariety. Hale Tennant and Mr. Cribbs, with the help of the other county agents in their counties, organized the Michigan Potato Growers' Exchange.

Before the first of July, 1918, Mr. Cribbs organized a potato marketing crop from the college orchards, bought association in every town in Antrim and sold fifty barrels of apples produccounty and then was asked by the ed in Berrien county, and sold cider at state to help in other counties. He worked with eleven other agents in fall. their respective counties during the balance of the summer.

That fall the potato inspection work, which eventually led to the certification of potato seed, was started. Mr. Cribbs with Mr. Waid, of the Michigan Agricultural College, inspected many acres within the county and found fields free from disease which produced 19,000 bushels. He advised farmers having diseased fields to sell all

growers enter the certification work. Antrim county. The county agents in is the manager of the Antrim Seed est quality was not the guiding motto. ties coming into prominence also as ricultural College. He has always seed-producing counties.

farm boys, Moore being born and rais- a result has received a broad training A. A. Potter, of Purdue University, in L. L. Drake, county agricultural ed on a truck farm in Maryland; Drake for this project. agent for Antrim and Kalkaska coun- was born and raised in Benzie county, ties, is a graduate of the Michigan Ag- Michigan, and Cribbs in Berrien counterest the progress of the work on this too hard. He urged a more scientific

Dean Cribbs, the son of W. C. Cribbs, Washington, D. C., November 21-22.

We shall watch with increasing in-

Late Agricultural News

WHAT CONGRESS SHOULD DO.

S ENATOR CAPPER says that if the present majority party is to conready started in the farming industry's behalf.

rural credit plan, to provide farmers and stockmen with an adequate financial system.

It must increase the loan limit of the federal farm loan banks from \$10,-000 to \$25,000.

It must reduce freight charges.

It must repeal Section 15-a and other objectionable provisions of the Cummins-Esch transportation act.

It must carry out the policy for a better system of marketing.

It must put the development of the Muscle Shoals project in the hands of Henry Ford.

It must pass the truth-in-fabric bill. It must pass the Voigt filled-milk bill.

It must pass a constitutional amendment prohibiting tax-exempt securities. It must bring about still further reduction in tax burdens and still further economies in the administration of government.

It must make undisturbed surpluses and stock-dividends pay their share toward the maintenance of government.

It must do whatever this nation can do to promote European recovery and the restoration of a foreign market for the surplus products of our farms and factories.

MICHIGAN BOYS WIN IN IOWA.

HREE horticultural students representing M. A. C. took second place in an apple-judging contest at Council Bluffs, Iowa, last week. Members of the team were Cyrus A. Boyer, of Bangor, who ranked third among individuals; Clair S. Waltman, of Ionia, fifth, and Don L. Lacy, of Lansing, sixth. The contest was won by the University of Missouri, which was only a few points in the lead of the M. A. C. team. Other institutions entered were tions of the state were of the Russet Iowa State, the University of Wisconsin, and the University of Nebraska.

Funds to defray the expenses of the Michigan Aggie contestants were raised by the horticultural club, members of which marketed part of the apple of one and a quarter million dollars.football games and other events this

By an odd coincidence, the team which defeated the Michigan men was from the University of Missouri, where was formerly at the head of the horticultural department.

SHORT COURSE IN RADIO.

man on the farm to learn how to their potatoes and buy the clear seed. assemble home-made radio sets. Ar-Mr. Waid had gone over several oth- rangements are being made to teach Georges Clemenceau, the "Tiger" of which is being held at Lausanne, Switer counties and had only found three all short-course students at M. A. C.

this winter the fundamentals of the construction of receiving apparatus, it is announced by Ashley M. Berridge, assistant director. Members of the tinue in power it must not be slow to farm mechanics department will carry finish the constructive program al- on the instruction, and materials will be furnished by the college. In this way the use of radio will become wide-It must put through the complete spread among the farm homes of Michigan, it is believed.

TRAFFIC INCREASES.

warded from the Thumb discrict of per cent over last year. In the Grand Rapids district, the shipments have ined. While out-going freight has in- largely of other commodities." creased, incoming freight has decreased as follows: Three per cent in the Thumb district; six per cent in the Grand Rapids district, and four per stitutions have been directed too much cent in the Petoskey district.

NEED BETTER MARKETING.

CONOMIC problems were in the forefront at the thirty-sixth annual convention of the Association of Land Grant Colleges at the Willard Hotel,

Secretary of Agriculture Wallace He has always been strong for the other counties advised their growers Farm. He is a graduate of the East emphasized the need of giving more closest inspection rules; knowing very to sell their diseased potatoes and buy Lansing High School and spends his attention to the marketing of foods well that Michigan could not retain from Antrim growers. This work on winters taking special potato and farm and other farm commodities. In the first place in the seed game if the high- their part has resulted in other coun- mechanics work at the Michigan Ag- reorganization plans the department of agriculture has made a scientific and spent his vacations while in school recording department which reports Moore, Drake and Cribbs were all working for some good farmer, and as the situation in every section. Dean his address as president, said there is a tendency to stress certain subjects study of all problems in our attempts to solve the agricultural situation. Dr. Stevenson, the American representative at the International Institute in Rome, pointed out that all the European nations are taking steps to make their countries self-sustaining in agriculture, which if successful would very largely reduce our export trade in farm products.

HOWARD ON THE FARM SITUA-TION.

N an address before the Land Grant College Convention, President James R. Howard, of the American Farm Bureau Federation, said that when he left his Chicago office, he was told that the probability was that the price level A CCORDING to reports by the Pere reports for September would show the Marquette Railway, shipments for- farm prices to be one point above 1921, while the other commodities on the Michigan show an increase of fifteen list would show an advance of twentyfive points above. "If this advance tip materializes," he said, "it will indicate creased fifty-four per cent and in the in a graphic way, that the distress of Traverse City and Petoskey region an the farmer is greater today than a increase of twelve per cent is report- year ago, because the farmer must buy

> If any criticism were due the land grant colleges, Mr. Howard thought it would be that the policies of these inalong the line of increased production and more efficient production, and too little in the forecasting of future needs from present conditions.

The right, honest, and profitable way to water milk is through the cow. Bowls in the barn, with running water, pay in winter.



Wednesday, November 22.

HE wets, under the name of the National Association Opposed to the Prohibition Amendment, held a convention in St. Louis for the purpose for the modification of the Volstead Act.—Annie McSwiney is on her fourth day of waiting and fasting outside the Dublin city gates, while her sister Mary is undergoing her sixteenth day of hunger strike.

Thursday, November 23.

ENRY FORD buys a new coal mine in West Virginia at a cost Sixteen states will join in a conference at Milwaukee to consider the Lakes-to-Atlantic waterway.—The first quart of strawberries grown in Florida this season was auctioned off at \$8.50. Friday, November 24.

E QUAL suffrage was killed for France when the senate defeated Prof. V. R. Gardner, now of M. A. C., a bill granting votes to women.—It is reported that the R. M. Kellogg Co., of Three Rivers, has purchased a new ever-bearing strawberry plant from Mr. Rockhill, of Conrad, Ohio, for fifty thousand dollars.

Saturday, November 25.

France, pleads with the United States zerland.

not to desert France. He predicts another war with Germany.-The national committee for the prevention of blindness asked strict national and state restriction on the sale of wood of organizing of every state to fight alcohol, because of its use for liquor purposes and its detrimental effect on

Sunday, November 26.

THE government has instituted civil suits against four war camp contractors to recover \$20,000,000 which was misused from the camp building funds during the war .- Mrs. Sarah Price put her foot down when they wanted to make a cake and put candles on it on her 110th birthday. She said she felt like a giddy young thing of eighty.

Monday, November 27.

D UBLIN is again under military rule, being controlled by troops of the Free State.—Senator LaFollette is organizing a progressive bloc and has already lined up nine senators and three representatives at the national capitol.

Tuesday, November 28.

FIFTEEN convicts escaped from Marquette, Mich., prison through S EVENTY miners are killed in a a secret tunnel.—The Turks openly mine blast at Dolomite, Alabama.— threaten to break the peace parley

Profit Through Spray Rings

Charlevoix Potato Growers Find that They Can Cooperate in More Ways than One

By B. O. Hagerman

tion spells success.

This last spring through a series of "Hopperburn." meetings, propaganda was spread advertising the merits of home-made Bert Lumley, of Boyne City, who con-Bordeaux applied at a pressure of 175 ducted one of the spraying demonstraat the required pressure. As coopera- tained by digging the two inside rows

7 ITH three cooperative market- stration, the spray check was very ing associations ranking among visible as far as one could see the the best in the state, as an ex- field. Blight did not seem to be a serample, the potato growers of Charle- ious menace this year in Charlevoix voix county are finding that coopera- county and the results obtained are almost entirely due to the control of

An accompanying picture is of Mr. to 220 pounds. The arguments presenttions. Mr. Lumley was a partner in ed in the case were such that many of one of these spray rings, and being the potato growers in the county were somewhat of an experimental temperaquite readily convinced. The next ment, was very willing to leave a strip problem to be solved was that of pur- of four rows through his field which chasing one of these machines which only received the arsenical spray for would apply this home-made Bordeaux bugs. The following results were ob-



Mr. Lumley and County Agent Hagerman Inspecting the Spuds.

tion is advocated by most every coun- of the check unsprayed and two rows ty agent as a panacea for farming ills, at the side of the check which were it immediately presented itself as per- sprayed: haps a possible solution for this problem.

Following a little investigation from outside communities and states, it was per acre for the sprayed lot. The lowlearned that a few cooperative spray rings had been organized and operated sure was 23.26 bushels per acre. Howsuccessfully. Consequently, the Penn- ever, the average for eight demonstrasylvania plan was adopted and several tions was approximately forty-three spray rings were organized.

The cooperative marketing associatensely pronounced in this transac- healthy top growth. tion, the individual farmers themselves were two main types of sprayers in- a failure was avoided and a loss turnvolved in these transactions, namely, ed into a profit. the engine type, and the traction type. The traction type seemed to enjoy the greater popularity, perhaps due to its necessitating a smaller financial investment.

been many and varied. Neighbors together and arrange their work so stocks for their grapes. they would not all be wanting the sprayer at the same time. This result have considerable trouble with phylwas extremely beneficial as it perhaps loxera, a tiny louse which feeds on the might be considered an A B C lesson roots of the grape vine. Horticultural in community cooperation.

were several spraying demonstrations. Each demonstration consisted of leav- rieties on these roots they believe the ing a check of about four rows through German grape industry will be saved the center of the field-which would millions of marks. Many of the old not receive the Bordeaux. These four grape vineyards are being uprooted rows were sprayed only with arsenical and replanted to the new Americanpoison for bugs. Aside from this, all rooted stocks. The fruit of the Americultural methods were the same dur- can grape is not popular in Germany ing the entire season. It is very in- as most of their varieties are used for teresting to note that in every demon- wine-making purposes.

Unsprayed potatoes, 217.8 bushels per acre; sprayed potatoes, 290.4.

This shows a gain of 72.6 bushels est increased yield due to high presbushels per acre.

Many farmers in Charlevoix county tions in this county, like those in sev- not producing certified seed are using eral other counties, purchased spray- the high pressure sprayer on their ers cooperatively from the potato fields of common table stock. They growers' exchange. As the effect of realize that in order to produce good cooperation was so vivid and so in- tubers there must be a rank, vigorous,

Charlevoix county farmers are more took it up, and as a result organized than satisfied and convinced that it is themselves into these spray rings and due to the high pressure sprayer and secured the services of an efficient home-made Bordeaux that this year, sprayer at a minimum cost. There when potatoes are almost worthless,

GERMANY USES AMERICAN GRAFTING STOCK.

The result of these spray rings have \[\begin{aligned} \text{N} & \text{the past it has been the custom} \] for American nurserymen to use have learned to work together and in French, Belgian and other Europeanmany cases learned the advantage of grown stocks to grow their fruit trees a prearranged program of work. Three and vines on. But it seems now that or four farmers used the same spray- the tide has turned and Germany has er, making it necessary that they plan started the use of American grape

On native stocks the German grapes experimenters in Germany have found Accompanying the spray ring work that this louse does not like American grape roots and by grafting native va-

TOP NOTCH BEACON FALLS RUBBER FOOTWEAR





Page 105 Farm Home see photo and all details 195 acres, cuts 150 tons hay, valuable wood, timber and orchard, 10-room house, 80-ft, barn, silos, etc. To settle affairs at once, 27 cows and young stock, 4 horses, big line farm machinery, hay, ensilage, grain included, all only \$13,000, easy terms. Opportunity of a lifetime. Many others throughout 33 states.

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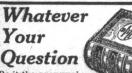
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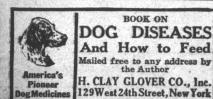
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CHICKEN LICE ON SHEEP.

I am going to keep my sheep in an old hen coop this winter. Will chicken lice stay on sheep, if they will, what should I use to remove them?—H. W.

I never heard of chicken lice bothering sheep, but they will infest many other animals. But there is no use in taking any risk. The old saying, "An ounce of prevention is worth a pound of cure," will apply here. If there are any lice in the hen house, clean them out before putting the sheep in.

Spray the interior thoroughly with any coal tar disinfectant (any good sheep dip). Mix about a teacup of disinfectant to a pail of water. With a hand air-pressure sprayer it is only a matter of an hour or two to spray the building and the expense will be very light. Then you will have no lice to get on the sheep.

APPLYING MANURE AND LIME TO ALFALFA.

We seeded a small field to alfalfa the latter part of August, and there are places where it does not grow well. Would it injure the alfalfa to mix ground limestone with manure and spread it on after the ground freezes.

There was 550 pounds of hydrated lime applied to the acre about three or four weeks before seeding. Will soy-beans take the place of bran or middlings as a ration for pigs or cows? What is the method of inoculating them?—C. F.

It will not only not be injurious but very beneficial to top-dress new seeding alfalfa, or any other crop with five-month-old pigs have piles? manure and ground limestone. Don't can be done for them?—C. R. manure and ground limestone. Don't use hydrated or caustic lime with manure as the lime will tend to set free some of the nitrogen in the manure. Ground limestone will be just as beneficial and will cause no loss.

Soy-beans will more than take the place of bran and middlings. Soy-bean meal or soy-bean oil cake will take the place of cottonseed meal or linseed meal in a ration. In other words, soybean meal is as rich in protein as either cottonseed meal or oil meal.

There are several ways of inoculating any legume seed. 1, send to the experiment station and get culture, apply as per directions. This is the simplest way. 2, get some soil from close to the roots of growing plants, containing nodules. Pulverize this very fine. Wet it with water containing a little dissolved glue and apply to the seed, stirring thoroughly so every seed is covered. 3, get quantities of soil from a field that has recently grown soy-beans and spread on your field. Cultivate it in.

A MILK SUBSTITUTE.

I have twenty-two fall pigs and I have no milk, only what I buy, and that is half water. How would tankage go and how much should I feed to each one hundred pounds of weight of pigs? Please tell me where I can buy it and its probable price.—A. H.

Your pig problem is exactly like mine, so I know of no better way to answer it than to tell you how I am doing. I have just weaned a bunch and sometimes suspicious, and no propigs and am feeding a thick slop of vision can be made in such a deed to ground oats and barley, equal parts, prevent the care-taker wishing the old with about ten per cent of oil meal people dead. The most satisfactory added. Besides this slop they get all arrangement is to contract to pay so the ear corn they will clean up twice much per week for the keep, payable daily. If I can find good skim-milk at on death of person kept. A deed giva price not to exceed thirty cents per en by the old people containing a hundred pounds, I will not hesitate to clause empowering them to revoke it

to ten or twelve of the corn, oats, bar- the dub to draft.-Rood.

ley mixture is enough. An overdose of tankage is worse than none at all. I like it best for good-sized shoats on a full feed of corn. In the past it has been rather inconvenient to secure as dealers dislike to carry it in stock on account of its objectionable odor, so it has usually been necessary to ship from one of the Chicago packing houses by local freight. I understand, however, that the Detroit Packing Company is now putting out a good grade of feeding tankage at around \$50 per

SALE OF HOMESTEAD.

A man disposed of a farm in Michi-A man disposed of a farm in Michigan without his wife's signature. Can the wife reclaim her share of the farm? If so, what portion is she entitled to? Does the law compel a man to notify his wife, or to have his lawyers notify her, if he applies for a divorce?—A. B.

If the land was their homestead the conveyance is merely void. If not, she still has her possible dower rights in it. Divorce without notice to the other spouse, either in person or by publication pursuant to the order of the court and as permitted by statute is void. If she can show that he knew of her whereabouts and that she was not notified, the decree of divorce will be set aside if obtained by mere publication.-Rood.

PILES IN PIGS.

Can you tell me the reason that my

Protruding rectum or piles in pigs is commonly caused by excess abdominal or excess fullness of feed, resulting in swelling of mucus membranes of rectum. Most cases can be handled successfully by washing parts affected with a two to five per cent solution of alum water when prolapse first appears. If parts are injured, surgical methods may be necessary, and had best be done by a veterinary surgeon. Keep animal on light laxative diet for a few days.-Pope.

TENANT'S RIGHT TO STRAW.

A rented a farm of a widow on shares. A received two-thirds of all crops grown on the farm. The woman died and A left the farm when his lease expired. The heirs and administrator said he could not take the straw from the farm. Can A take his share of the attant from the farm? share of the straw from the farm?-

Unless the surrender of the farm manifested an abandonment of the straw the tenant is entitled to take it. -Rood.

CARE OF PARENTS.

I am taking care of my mother and father. They have a piece of property and want me to have same when they are gone. So they deeded the property to me. Isn't there a printed form for such a lease? How should it read? Is it necessary to give back quit-claim deed?—Reader.

This is a year hard citation to deal

This is a very hard situation to deal with. Old persons become irritable use it to mix the ground feed with. whenever they please, and appoint it Tankage is theoretically the best to some one else is satisfactory prosubstitute for skim-milk in pig feed- tection so far as they are concerned, ing, but it is highly concentrated and but gives little security to the careneeds to be fed with care. One part taker. This is not an instrument for

The Fruit Growers' Program

The program is as follows:

Tuesday, December 5.

Nine-thirty a. m., address of welcome, F. H. Locke, city manager of Grand Rapids; response, George A. Hawley, of Hart, president of Michigan State Horticultural Society; 10:30 a. m., "The Life Story of Apple Scab Fungus," Dr. G. H. Coons, botany department M. A. C.; 11:00 a. m., "Spray or Dust, Which?" W. S. Brock, secretary Illinois State Horticultural Society, extension pomologist, University of Illinois, Urbana, Ill.; 11:30 a. m., "Cherry Leaf Shot Control," W. Dutton, research associate horticultural "Cherry Leaf Shot Control," W. Dutton, research associate horticultural department M. A. C.; 1:30 p. m., "Present Day Tendencies in Fruit Growing," C. I. Lewis, Chicago; 2:15 p. m., "Making and Losing Money with the Pruning Saw," V. R. Gardner, professor of horticulture, horticultural department M. A. C.; 3:00 p. m., "Control of Insects and Diseases in Different Parts of the Tree," H. A. Cardinell, extension specialist in horticulture, University of Missouri, Columbia, Missouri.

Wednesday, December 6.

Eight a. m., judging contest in Klingman Building, M. A. C., students; 9:00
a. m., "The Grape Berry Moth in 1922," R. H. Pettit, entomology department M. A. C.; 9:30 a. m., "The Grape Change," F. Michigan Farm change, Detroit.

The fifty-second annual meeting of the Michigan State Horticultural Society will be held at the Press Hall, Grand Rapids, from December 5 to 7. This meeting occurs at the same time as the Michigan Apple and Potato Show and the meeting of the Michigan Potato Growers' Association. Therefore, fruit growers will have special inducements to attend, besides the very practical and interesting program which has been provided.

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Thursday, December 7.
Nine-thirty a. m., "Raspberry Disease Control," R. B. Wilcox, office of fruit disease investigations, Washington; 10:00 a. m., "Raspberry Improvement Work," R. E. Marshall, associate professor horicultural department M ment Work," R. E. Marshall, associate professor horticultural department, M. A. C.; 10:30 a. m., "Results of Fertilizer Demonstrations," County Agents J. L. Kraker, Benzie county; Chris. Bemis, Mason county; I. T. Pickford, Oceana county; C. P. Millihan, Ottawa county; K. K. Vining, Kent county; W. C. Eckard, Van Burean county; L. L. Olds, Kalamazoo county; F. L. Simanton, Berrien, county; W. M. Murnhy. L. Olds, Kalamazoo county; F. L. Simanton, Berrien county; Wm. Murphy, Macomb county; 1:30 p. m., "Extension Work in Fruit Growing," T. A. Farrand, horticultural department, M. A. C., secretary Michigan State Horticultural Society; 2:30 p. m., "Marketing Through the Farm Bureau Produce Exchange," F. A. L. Bloom, manager Michigan Farm Bureau Produce Exchange, Detroit.

Spuds and Apples Galore

B OTH potatoes and apples in quantities from everywhere and in a profusion of varieties will be on dress parade at Grand Rapids, December 5-6-7-8.

The rousing occasion is that of the first Michigan Apple and Potato Show. Fruit men and potato growers will vie with each other in making this the event of the year in potato and apple circles.

Education, promotion, recuperation, cooperation and market extension are key ideas of this well-planned show and of the lively

Buckle on your belt, grab a sandwich and put in your appearance at Grand Rapids on December 5-8. If the good things planned are well carried out you will burst the belt, neglect the sandwich and forget about your appearance in listening and making the

Potato Growers' Program

UESTIONING, despairing, hoping, seeking, farmers from every potate-growing district of the state will gather at the meeting of the Michigan Potato Growers' Association at Grand Rapids, December 5-8, to clarify and crystalize old ideas as well as ideas more recently developed. This meeting will be held in conjunction with the Michigan Potato and Apple Show, the State Horticultural Society and the Michigan Maple Sugar Produc-

Wednesday, December 6, 10:00 A. M., Ball Room, Pantlind Hotel.

J. W. Weston, Chairman.
Address of welcome by Lee Bierce, secretary Association of Commerce.
Responded to by Dean R. S. Shaw, Dean of Agriculture and Director of

Experiment Station, M. A. C.
Potato Marketing Requirements by A. L. Bloom, Detroit Produce Exchange.

change.

The Question of State Supervision of Market Grades, by W. P. Hartman, Director Bureau of Foods and Standards, State Department of Agriculture. 2:00 P. M.—R. C. Bennett, Chairman. Practical Directions in Operating Equipment Involved in Potato Grading, by C. C. Wells, Manager Michigan Potato Growers' Exchange.

Potato Crop Statistics and How Obtained, by V. C. Church, Agricultural Statistician United States Department of Agriculture and State Department.

Market Reports and their Applica-tion, by R. H. Shoemaker, Bureau of Markets, local representative, Grand Rapids, Mich.

December 7, 9:30 A. M.—O. S. Wood, Chairman. Plans of the Michigan Potato Cer-tification Service, Tom Buell, Presi-dent Michigan Potato Growers' Asso-

Giant Hill and Rugose Leaf. Their ers. Here is the program arranged for the potato growers:

Giant Till and Rugose Leat.

Significance and Menace to the Potato Industry in Pennsylvania and Michi-

gan, by Dr. E. L. Nixon, State College, Pennsylvania. Requirements of the Ohio Seed Trade, by C. W. Waid, O. F. B. F., Col-

umbus, Ohio.

Requirements of the Indiana Seed Trade, by F. C. Gaylord, Purdue University, Lafayette, Ind. 2:00 P. M.—H. B. Losey, Chairman. Potato Growing from a Nation-wide Standpoint, by Dr. Wm. Stuart, United States Department of Agriculture, Washington, D. C.

Potato Diseases in Michigan, by Dr. G. H. Coons, Plant Pathologist, Michigan Agricultural College.

Report of Season's Experimental Work with Potatoes, J. W. Weston, Potato Specialist, M. A. C.
(Continued on page 590).

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Eveready Flashlight Batteries fit and improve all makes of flashlights; they give a brighter light; they last longer.

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30 Days Free Trial 30 days' free trial—then, if satisfied, only \$7.50 and a few easy payments—AND—the wonderful Belgian Melotte Separator is YOURS. No Money Down! Caution! U.S. Bulshows that vibration of shows that vibration of the bowl causes oream wastel The Melotte bowl is self-balancing. Positively cannot get out of balance therefore cannot vibrate, Can't remix cream with milk. The Melotte has won 384. Grand and International Prizes. Catalog FREE Runs so easily, bowl spins 25 sainutes after you stop cranking unless you apply brake. No other separator needs a brake. Bowl chamber is porcelain lined. Write for new Melotte Cat-alog containing full description of this wonderful cream separator and the story of M. Jules Melotte, its inventor. Don't buy any sep-aron can about the Melotte and de-tails of our 15-year guarantee which is infinitely stronger than any agra-arator guarantee. Write TODAF.

The Melotte Separator, H. B. Babson, U.S. Mgr. Dept. 3109 2843 W. 19th Street, Chicago, Ill. Trial Offer—10c brings midwest farmers' utility poultry paper, twice-a-month for 3 months. Poultry Guide, Box D, Montpelier, Indiana

POULTRY

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A Hatch Every Week All Year

POSTAGE PAID, 95 1 live arrival guaranteed MONTH'S FEED FREE with each order 40 Breeds chicks, 4 breeds ducklings, select and exhibition grades. Catalog free, stamps appre-

ciated. Dept. 15, Gambier, O.

red Rocks, White Wyandottes and Orpingtons, he most of these Pullets are now near laying age should be put into winter laying quarters soon. Ou want a flock of winter layers, write to us now. Iso Cockerels, Bronze Turkeys, Toulouse Geese Pekin Ducks.

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Kalamazoo, Michigan

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Barron Strain S. C. W. Leghorns and Parks strain B. Rocks. Large pullets starting to lay \$1.75 each. 12 weeks old pullets \$1.25 each. \$115 per 100. Selected \$5.0. W. Leghorn hens \$1.00 each. \$5per 100. Good healthy birds no culls of weaklings. Holland, Mich. PINE BAY POULTRY FARM,

Baby Chicks Hatching eggs, \$1.50 per setting to \$15.00 per 100. We are listing 17 varieties of pure bred fewls; Chickens, Geese, Ducks & Guineas, also breeding stock. Send for prices and cir cular. Booking now for early fakms, Wilmington, Ohio.

BarredRocks egg contest winners, eggs from s rain records to 290 a year. \$2.00 per setting prepaid by P. P. Circular free. FRED ASTLING, Constantine, Mich

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R. C. Br. Leghorns, Geese, both mature and young birds. Mrs. Claudia Betts, Hillsdale, Mich,

Whittaker's R. I. Reds 200 Single Comb Red pullets at \$2.50 to \$5 each. Also Cocks and Cockerels of both combs. From stock blood tested for bacil lary white diarrhoea. Write for catalog. Interlakes Farm, Box 39, Lawrence, Mich.

PENIABEED WHITE LEGHORNS FREE PRAYESTED 301 eggs per year. Winners at 50 shows. Chicks, eggs, pullets, hens and males shipped C.O.D. Lay 265 to 301 eggs per year. Winners at 50 shows. Chicks, eggs, pulies, hens and maies shipped C.O.D. at low prices. Write today for catalog and complete information to the World's Largest Legitore Farms. GEO. B. FERRIS, 504 wilton, eashs Darpies, Mich.

PULLETS & COCKERELS Now Four Months Old

Now Four Months Uld
WHITE LEGHORNS AND MOTTLED ANCONAS
Also Black Leghorns, Brown Leghorns, Buff Leghorns, Black Minorcas, E. O. Rhode Island Reds,
Barred Plymouth Rocks, White Plymouth Rocks,
Silver Wyandottes, White Wyandottes, WE HATCH
eggs from Hoganized flocks on free range on separate
farms, Where our chicks are raised.

Send for Price List.

CRESCENT EGG COMPANY
Michigan

RHODE ISLAND WHITES win over all breeds at the egg laying contest. 30 egg \$5; 50 \$8; 100 \$15 order from this ad. Some chicks H. H. JUMP, R. 5, Jackson, Mich

. White Leghorns Cocks and Cockerels

RALPH S. TOTTEN,

Single Comb Buff Leghorn
Early hatched ckls. Willard Webster. Bath, Mich WHITE WYANDOTTES

Additional Poultry Ads. on Page 574

Marketing Poultry

By J. H. Cutchen

Many farmers today like to ship more to ship a slat coop than a light their poultry to market instead one and you then have to pay twenty the return and you do not make the poultry buyer cents for the return and you do not make Her Hens Shell Out Eggs. in their own town.

The buying public, in all the larger come more particular, and any poultry every one is filled up by that time. offered for sale must be nearly perfect in dressing and conformity.

As a general rule home-dressed poultry does not sell as well as city dressed, for the reason that the scalding is imperfectly done and the chickens have a spotted appearance which hurts their sale. The retail dealer, thereof two to five cents per pound as compared with city-dressed stock.

In shipping dressed poultry see that it is thoroughly cooled before shipping for a mature hen. The salts can be and wrap the head of each bird in a piece of paper to prevent any blood from dripping on the other chickens. know the hen has received the dose. Pack in barrels or boxes and ship by express or truck.

In shipping live poultry, the following precautions should be observed:

Do not ship any culls, thin stock, or diseased chickens. They are not salable and you only pay express uselessly.

If you are shipping enough stock to do so, grade your poultry when putspringers in one coop. Heavy hens in another, and light stock by themselves. Do not crowd too many birds in a coop. One dead chicken pays the express on another coop.

In warm weather especially, many coops arrive at market with two to five dead in each coop because the shipper has crowded too many in a

Always weigh and count your poultry when you ship. Do not guess at either the weight or number. If you have to make a claim against the express company or you have a dispute with your commission man, the number and weight are very essential to a satisfactory settlement in either

Ship early in the week. The markets in the big cities are practically over by Thursday noon and unless there is a short supply, Friday is bargain hunter's day.

Shrinkage is a big factor in shipping and should be taken into consideration when deciding whether to sell at home or ship to the nearest big market. The average shrinkage on chickens is from five per cent on aged stock up to ten per cent on young chickens. If you feed heavily before shipping, the shrinkage will only be that much heavier.

Turkeys shrink from ten to fifteen per cent and ducks shrink the most. The shrinkage on these seldom runs less than fifteen per cent. The most popular breeds of chickens are Plymouth and Barred Rocks and Rhode Island Reds. These, if in good condition, always command the best prices. Leghorns, Black Minorcas, Anconas, and other under-sized breeds are not wanted except at a marked reduction in prices, generally two to five cents per pound under the first mentioned breeds.

If they can be obtained, one trip coops are the most desirable to ship in. They weigh about twelve pounds. it costs twenty-five to thirty cents hay leaves.

always get it returned.

In shipping for any holiday market cities, especially, grow more discrim- ship early. Prices are more likely to inating every year, or at least they be- be lower the day before a holiday as

TRY EPSOM SALTS.

PSOM salts are a cheap remedy to keep on hand to help in toning up a poultry flock that has had access to spoiled feed. The occasional use of the salts is a help in reducing losses fore, wants to buy them at a discount from sour crop or indigestion due to overfeeding. A hen that has been crop bound is benefited by epsom salts.

The usual dose is half a teaspoonful dissolved in warm water and poured down the throat of the bird. Then you She may not eat enough of a mash containing the salts. A flock can be allowed to go hungry about half a day followed by a moist mash containing epsom salts for every bird.

When the salts are used as a preventive, place about three teaspoonfuls in a gallon of water and allow the birds no other drinking water. Many of the cases of so-called cholera are ting it in coops for shipment. Heavy really only bowel trouble, due to faulty feeding methods. Often the use of epsom salts will improve such conditions. Epsom salts can be purchased in one hundred pound bags for less than four cents per pound, so the cost of using this in poultry doctoring is very reasonable.-Kirby.

A RECORD HEN.

ADY JEWELL, who belongs to the Western Washington State Experiment Station, and who has already had good laying records to her credit closed her year's test with a total of

Lady Jewell is a White Leghorn hen which is owned by H. M. Lethers, of Washington, who values her at \$2,000. She was entered in the egg-laying contest at the experiment station. According to the superintendent of the egg-laying contest, this hen reached the former world's record of 324 eggs made by a California White Leghorn.

In this contest there are ten other hens which have passed the 300-egg mark for the year, one of them laying

AN IMPRISONED HEN.

RA FRAKER near Perrington, Michigan, unknowingly buried a hen when he was putting hay in the mow this summer. Lately this hen was uncovered and was found still alive, although she had nothing to eat but hay leaves and had scanty air circulation and absolutely no water during the time of her imprisonment.

In order to make herself more comfortable she ate away the hay surrounding her, but she could not make room enough for herself so that she could stand up. Because of being in one position so long, her legs have been rendered useless.

Poultry authorities think it remark able that a hen should last so long Slat coops weigh thirty-five to forty under such circumstances without pounds. At the present express rates, anything more nourishing than dry



Winter Eggs, By the Bushel

Made Her Hens Shell Out Eggs.

"In October, I started giving Don Sung to our 50 hens. It promptly brought them from 2 eggs a day up to 25 a day. My next \$1 box brought them up to 36 and 38 eggs a day right through January. Now (Feb. 17th) I am using my third \$1 box and I expect it will bring them up to 45 or even 50 a day. Our hens are in the best condition and the eggs are the largest and finest we ever had."—Mrs. W. T. Holsclaw, North Vernon, Ind.

Nearly 3 dozen every day for Mrs. Holsclaw, in November, December, January and February. Certainly not a bad increase for hens that were only laying 2 eggs a day; it?

She started just as we're asking you to start, by accepting this offer:

Give Don Sung to 15 hens. Then watch results for 30 days. If it doesn't show you a big increase in eggs, if it doesn't pay for itself and pay you a good profit besides, tell us and your money will be promptly refunded.

Don Sung (Chinese for egg laying) acts directly on the egg-laying organs, and is beneficial in every way. It makes hens healthy and happy. They scratch and sing. Pullets develop earlier. The whole flock lays regularly in any season, in any weather, when eggs are scarce and high.

Can you afford to ignore the wonderful reports you are hearing from Don Sung users everywhere? Why not let us show you the same results, with your own flock? Don Sung is no trouble to use. It costs nothing to try. All we ask is a chance to prove our claims, entirely at our risk. Get Den Sung from your local dealer, or send 50 cents for package by mail prepaid (large size, \$1, holds three times as much).

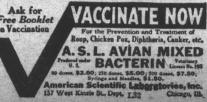
Burrell-Dugger Co., 424 Columbia Bldg Indianapolis, Ind.

Burrell-Dugger Co., 424 Columbia Bldg Indianapolis, Ind.









EUROPE CONTROLS BLACK RUST.

CCORDING to Dr. E. C. Stackman, of the department of agriculture, Europe has practically annihilated the pernicious common barberry with the result that the black stem rust of wheat and other grains is no longer a serious problem.

COURT HOLDS CHECKS COLLECT-ABLE.

MICHIGAN State Farm Bureau membership dues for the period 1920, 1921 and 1922 have again been ruled legally collectable by the courts. The recent ruling comes as the result of a farm bureau suit at Centerville, St. Joseph county, to collect \$20 delinquent membership dues. The case was remarkable in that the defense was represented by two of the most noted lawyers in southern Michigan and the farm bureau was represented by three equally prominent lawyers.

The issue was fought out in a threeday legal battle and the jury returned a verdict in favor of the farm bureau after thirty minutes deliberation. The farm bureau attorneys won the case on the straight collectability of the membership checks and the services rendered in return during the threeyear period just ending.

HERE AND THERE IN MICHIGAN.

Alfalfa is finding a new demand among turkey growers who state that the birds grow more rapidly on alfalfa range than on any other forage crop of the farm.

Plans are being developed by County Agent C. C. Taylor, of Newaygo, to organize a horticultural society in that county. The meeting was held at Fremont on November 29.

The greatest tonnage of farm produce ever shipped from Decatur, Van Buren county, in one month, was billed out during October. The total was 501 cars, of which 335 were celery and onions.

George Sage, a pioneer farmer of Ionia county, who claims direct heirship to Russell Sage's millions, refuses to establish his legal right to the money because he believes it is more wealth than any one person should own and that it would entail a great deal of care.

In a test of Robust beans and common beans on the farm of F. A. Runnells & Sons at Clio, the yields showed ten bushels for common and twenty bushels for Robust certified seed.

Eastern fruit growers practice leaving pruned twigs in the orchards over winter, declaring that rabbits and mice will attack the bark of these tender twigs before gnawing the tougher bark of the tree trunks.

The live stock cooperative commission house located at the Detroit stock yards are handling one-third and more of the total volume of stock received at the Detroit market. Their weekly receipts are around 120 cars.

The next annual show of the Holland Poultry Association, will be held at Holland during Christmas week. It is expected that one thousand birds will be entered.

R. W. Tenny, agricultural agent of Eaton county, announces that Burlynn Bradley, of Kaloma township, won the first and third prizes with his corn at the exposition recently held at Baton Rouge, La.

The farm and garden project club of the Michigan State Normal College at Ypsilanti report that the seventeen hogs owned by the club made an average daily gain of 1.28 pounds through a period of forty-six days while hogging down a field of corn.

The Marquette county board of supervisors has appropriated \$5,000 for improving the county fair grounds next summer.

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-and a Year to Pay for Certified Electric Service

Record breaking sales clearly show agriculture's emphatic acceptance of Willys Light as the leader of all power and light plants.

A firm belief in the continuance of this popular demand, makes possible greater volume and materially lower production costs. Effective December 1, 1922, we enthusiastically announce:

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pacity 1250 watts. New re-

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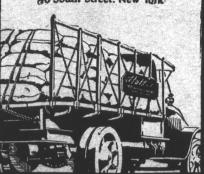
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Keep them there with the aid of WHITLOCK ROPE

Many a lost bundle - many a lost minute—has been due to faulty or inferior rope. Why be satisfied with anything less than satisfied with anything less than the best in rope, when it costs no more? Whitlock rope has greater strength and lasts longer. Get it at your dealer's. A 5% inch diam. Whitlock All-Manila Rope is ideal for work of this kind.

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Ten Years of Work Lost in One Day

John Olson spent 10 years of his life, ten years of hard patient work in building up his herd. Yesterday success seemed just around the corner. Today he's on the brink of ruin! 23 of his best cows reacted to the Tuberculosis Test! They had "cow consumption".

The money loss is bad enough. That hurts! But what takes the heart out of a dairyman like Olson is the lost time, the 10 years, or 20, or even 30 that can never be made up. Ten or twenty years of life and work wiped out over night!

It's happening every day. Hundreds of fine dairy herds are sent to the sham-bles because of tuberculosis!

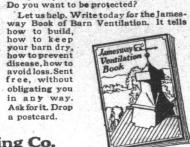
Do you know what to do to keep your herd safe, to insure your cows against T. B., and your investment against loss? Do you want to be protected?

in any way. Ask for it. Drop

James Manufacturing Co.

Ft. Atkinson, Wis., Elmira, N. Y., Minneapolis, Minn.

Is your herd safe? Is it free from T.B.? Is the hand of death fumbling at your stable door? Is your investment in good cows and long years of hard work insured against Tuberculosis?





Unless you see the name "Bayer" on package or on tablets you are not getting the genuine Bayer product pre-scribed by physicians over twenty-two

years and proved safe by millions.

Accept "Bayer Tablets of Aspirin"
only. Each unbroken package contains
proper directions. Handy boxes of
twelve tablets cost few cents. Druggists also sell bottles of 24 and 100. Aspirin is the trade mark of Bayer Manufacture of Monoaceticacidester of Salicylicacid.





Make \$60 to \$100 a Week Introducing this wonderful new Make south this wonderful new lamp. Gives soft, brilliant light; restful to eyes; ideal flumination. Burns Kerosene or Casoline Clean, odorless, conomical. Burns 96% air, 4% fuel. Absolutely safe. Lights with match. 100 times brighter than wick lemps. Patented. Greatest improvement of age. Table tamps. Lamfing lamps, lanterns. For and special agents offer.
Outfit THE AKRON LAMP CO.
Offer 392 Lamp Bldg., Akron, 0.



he standard preparation for Coughs, Colds,
Distemper, All Druggists.
Write for FREE Book on Horse Diseases. WELLS MEDICINE CO., Lafayette, Ind.

Hides Tanned or exchanged. Leather sold direct to farmers.
COCHRAN LEATHER CO., Greenville, Mich.

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Say "Bayer" and Insist! HERCE BERT



H-B Hard Pan Wears Like Iron

Soles are made from the choicest part of the hide. Uppers are specially re-tanned. Shoe resists water. Big, roomy and comfortable, fairly priced. This is but one of the dependable Herold - Bertsch line of dress and service shoes that have been worn by Michigan families for 20 worn by Michigan families for 30 years. Ask to see the Herold-Bertsch line. Look for the Herold-Bertsch sign in the shoe store window.

HEROLD-BERTSCH SHOE CO. Grand Rapids, Michigan.

SEND FOR BOOKLET

Color Your Butter

"Dandelion Butter Color" Gives That Golden June Shade and Costs Really Nothing. Read!

Before churing add one-half teaspoon-ful to each gallon of cream and out of your churn comes butter of Golden June shade to bring you top prices. "Dandelion Butter Color" costs nothing because each ounce used adds ounce of weight to butter. Large bottles cost only 35 cents at drug or grocery stores Purely vegetable, harmless, meets all State and National food laws. Used for 50 years by all large creameries. Doesn't color buttermilk. Absolutely tasteless.

duction.

creased from ten to twenty pounds per stimulate the remaining spurs. week.

of other cows were similar.

ous, but its effect on the cows was six to twelve feet from the main trunk. practically go to sleep. Cows were eral good lateral branches well spaced fed first, and then the phonograph along its entire length, each lateral started. They would not move, if supporting its share of fruiting wood. there was nothing to disturb them. The Such a tree can support a given load greater the supply of blood to the ud- to better advantage and carry a much der, the greater the quantity of milk larger crop of fruit. When pruning produced. The more contented the the young tree always leave fruiting mind of the cow, the heavier will be wood if it is located where it will have the flow of milk."

(Continued from page 581).

the tree has borne two or three crops. spurs and to color the fruit. The thinning should, for the most part, Pruning may be done any time dur-

these trees will probably not be re-ing. tained for more than twenty years and we want to bring them into bearing just as early as possible and, furthermore, we are not interested in the formation of a particularly strong framework.

Make Many Small Cuts on Bearing

er parts that an even distribution of functioning fruit spurs cannot be maintained. Thus the outer ends of the branches should be considerably thin ned to permit a free circulation of air, ample sunlight to produce fruit spurs therough in Production of Cortified Scool by I. spraying. The common mistake is to pursue the easiest course and remove a few rather large branches, but such a practice leaves holes and does not county Agent of Kent County.

Tesult in an even thinning or an even when State Board of Agent Agent and State Board of Agent Agent of A and fruit, and to permit more thorough in Production of Certified Seed by L growth. Again, too much large wood is removed, resulting in a heavy vegetative growth near the base of the removed branches.

My Experiences, by Holl. 3ason Woodman, Member State Board of Agriculture, Paw Paw, Mich.
Regional Use of Michigan Certified Seed Potatoes, by J. W. Nicolson, Michigan State Farm Bureau Seed Deremoved branches.

In thinning out the outer parts of trees, less vegetative disturbance will Wells & Richardson Co., Burlington, Vt in such a way as to leave the outer tato growers.

MUSIC HELPS MILK PRODUCTION. fruiting wood evenly distributed and still open enough to permit the en-N a recent experiment performed at trance of light and air. This type of the Casweel Training School at work is best performed when the prun-Kingston, North Carolina, they have er climbs out near the ends of the found that music stimulates milk pro. main branches where he is able to work with a saw and pair of hand It happened that the superintendent shears. This practice requires time, of the school installed a phonograph but experience has proved that the exin the cow shed where eighty cows tra labor required is repaid many were being milked by the boys of the times through better results. In case school. This was done to make things old trees are bearing too many clusterless monotonous for the boys, but ed, weak or inactive spurs, it is advisafter several weeks, it was found that able to thin them to admit light, prethe flow of milk of each cow was in- vent overbearing of small fruit, and to

Bearing orchards are frequently One cow, Butter Girl, gave during a seen in which trees have been stripped week of music, 344.7 pounds of milk, of all fruiting wood except near the as against 333.4 pounds during a week ends of the branches. In other words, in which there was no music. During all the fruit is borne out on the ends three weeks of music there was little of the branches instead of being disincrease in the output of this cow or tributed throughout the tree. In many other members of the herd, but when trees there is no fruiting wood within the music stopped Butter Girl dropped a radius of twelve to fourteen feet to 316 pounds per week. The records from the head of the tree. It is understood that a branch can support The superintendent, Dr. McMary, more apples if they are distributed says, "The effect of the music on the over its entire length, than if they are boys during the milking was marvel- all clustered about the ends, probably

A scaffold branch should have seva chance to develop. The tree will fruit earlier and heavier.

Fruiting wood may be developed in PRUNING APPLES FOR PROFIT. the course of three or four years in a tree in which the scaffold limbs are bare by the use of well situated water removal of the longer growths origi- spouts, by cutting them back from four nating from the central leader other to twelve inches in length to encour than those intended for main scaffold age the development of side branches branches and perhaps a light heading These in turn should be headed back back to balance the tree after the first the following year. After this, th season's growth; a similar thinning heading back should be lessened to enout but less heading back after the courage the formation of fruit spurs. second season's growth; a light prun- To make this operation successful it is ing after the third season's growth, essential that the trees be thinned and very light thinning out of the pre- about the outside to admit light suffivious season's growth thereafter until cient to allow the development of fruit

be confined to the outer parts of the ing the dormant season. Possibly very tree so as to admit sunlight and keep slight preference should be given to all parts of the tree functioning proplate winter or early spring, so far as erly. Very few of the smaller growths the trees are concerned, but if left in the interior of the tree should be until such a season the chances are very good that the work will not be In case one is growing some filler completed because of rush of other trees in between the permanent ones, farm practices. Consequently any fav-I would recommend no pruning after orable weather following the dropping the second growing season because of the foliage should be used for prun-

POTATO GROWERS' PROGRAM.

(Continued from page 587).

Lessons from Field Observations During Season, by H. C. Moore, Secre-tary-Treasurer Michigan Potato Producers' Association.

Trees.

Why a "Three-Hundred-Bushel" Potato Club, by D. L. Hagerman, Agricultural and Industrial Agent, of Grand Rapids, Mich.

December 8, 9:30 A. M.

result if many small branches—seldom over an inch in diameter—are removed clation; conference certified seed po-

Notes from a Michigan Farm

By L. B. Reber

appointing yield as the extreme hot and dry weather last summer resulted seems to stand the dry weather better fashioned Gar corn does the best for small cob, and even the nubbins are section. hard and solid.

I had a neighbor drill in a small piece of wheat for me. It was drilled in the corn stubble without working the ground at all; his wheat ground got a most thorough working with

WHEAT is looking fine in this sec- rived today and I have them heeled in tion, with about the usual until I can haul home some old saw acreage. Corn is making a dis- dust to place around the roots when planting. They must have sour soil, the poorer the better for them. My in numerous nubbins. Whitecap corn Syracuse raspberry plants are at the express office and I get them tomorthan the pure yellow corn, but I do not row. These plants cost me a shameful like it so well for feeding. The old- lot of big round dollars, but maybe they will pay. It is time to introduce me. The ears are small but fat, with a newer and better varieties in this

Well, it is getting late and the rest of the family have all gone to bed, time for me to go, too. Say, boys, do you remember way back, up there in Wexford county, when we slept right under the shake roof and in the morn



The Fruit Growers, in Parking their Autos in Barden's Field, Near South Haven, Learned that Fruit and Alfalfa Are Barden's Specialties.

plow, disc and harrow. He prophesied ing the top quilt was covered deep that my wheat would not amount to with fine snow. Them were the days shucks, but to his surprise mine looks better than his. I fertilized the corn with pulverized sheep manure and the wheat will get some benefit from that. On part of the field I applied acid phosphate at the rate of eight hundred pounds per acre and you can see now just where I left off sowing the acid phosphate. I will report further on

The fruit is all picked and shipped, and now we fruit men can live on memories until next June, when the strawberries begin to move. As the two governors said to each other, its a long time between pay-days. Labor kicks on a monthly wage, but we fruit men go seven months without a payday. Kieffer pears did not sell for enough to pay to pick them, and thousands of bushels rotted on the ground.

Apples would not sell at all. The winter apples are the scabbiest, scrawniest lot I ever saw, in spite of our frequent and thorough spraying. One of the best orchards near Benton Harbor shipped two barrels of unclassified apples to one of number ones.

The other fellow may have my share of raising Chinese cabbage. Mine have not shown the least tendency to make heads. I did raise a big lot of Missouri pumpkins from some seed my brother sent me. They grew big and laid thick on the ground. Every year I change locations for my potatoes, and every year they are scabby and have wireworms in them. I plant the best of northern grown seed, but the result is always the same. The northern man may raise my potatoes and I send him grapes in exchange. Some base villain usually soft and off-flavor and should ran over and killed one of my Jersey Giant chickens. I hope he chokes on a chicken bone. They are growing like weeds and are great pets. I have seven left out of twenty-five baby chicks, but they are quoted at ten dollars each for ten-weeks' chicks, so I have seventy dollars worth out of the sized. Confusion in the mind of the eight dollars I paid out. I haven't reader is avoided by use of parallel room for pigs on my fruit farm, so the drawings of the various hook-ups, etc. Francisco man will have to raise mine Full information is given about the for me. I raised a nice lot of beans and the beans raised a nice lot of bugs so I shall be in the market for beans all winter, but in small quantities at a time, say a big pan full of hot, baked amplifiers and loud speakers receive ones at a time.

My seedless huckleberry plants ar tube transmitters.

of real sport.-L. Benj. Reber.

MAKE A LITTLE KRAUT,

THE heavy production of cabbage in several sections of Michigan has created a real marketing problem. In many instances the situation can be improved, or at least a valuable food product can be made for home use, by converting some of this cabbage into

The following equipment and ingredients are necessary: An earthen jar of ten-gallon capacity; a short piece of two-by-four or a heavy wooden mallet; a kraut cutter, or shredder; a wooden cover or plate; a weight; some cheesecloth or coarse muslin; sixty pounds of cabbage and about one-fourth pound of salt.

Select cabbage with white hearts and discard the outer leaves. Cut fine and place in jar in layers four or five inches thick. Over this layer sprinkle a little salt, then jam with the mallet or two-by-four until the cabbage becomes quite moist. Put in another layer and repeat the process.

When the jar is nearly full, cover the kraut with washed cabbage leaves and then with a wooden cover or a large earthenware plate. Weight down with a stone. Protect from dirt by covering the jar with a coarse muslin cover or several layers of cheesecloth.

Let the jar stand in a warm cellar from four to six weeks. The kraut is ready for use when bubbles stop forming and a thin crust forms over the brine. The upper layer of cabbage is be discarded.

RADIO SIMPLIFIED.

THIS book is very well illustrated with drawings which really make clear the point which is being emphacars of the storage battery, and the operation of the vacuum tube with current from power lines and farm electric plants. The regenerative receiver, full attention, as do spark and vacuum



Keep Christmas with a Kodak

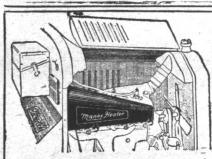
While far too excited to dress, little Jane has popped into bed again to pose for a picture with mother's new Kodak.

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CHAIN STORES MAY HELP THE POTATO SITUATION.

THE chain stores in Chicago, Detroit and other large cities are making potatoes their leaders. In many places these organizations are offering potatoes at from fifteen to sixteen cents per peck. Some are also offering two and a half-bushel sacks for \$1.16. On this basis, these stores are making the little cells almost a ton of the about ten cents per hundredweight. But they are giving the consumers this staple food product at such a low cost that its consumption will greatly increase. If this type of store will make features of such farm products they will become great factors in relieving the situation when the production of certain crops is greater than the normal consumptive needs.

THE FARM WORKSHOP.

THE dimensions of the farm workshop should tend toward length rather than width. It should not be less than sixteen by twenty, or even thirty feet is much better. For with a feed rack, hay rack, or perhaps a boat, you've got not a bit too much room in a twenty-foot shop. If your shop is no more than twenty feet and you have a forge it will be to your advantage to build a lean-to at the end of the shop for this and the anvil, leaving a dirt floor to eliminate danger from fire.

It will be to your advantage, too, in having an opening that you can open or close directly in line with your vise on the workbench so that when you are working upon some long stuff, like ladder uprights, etc., you can allow the ends to project out into space. The opening should be so that it can be closed snugly to give the worker full protection during cold or inclement weather.

It will be for the best interests of the farmer for him to start out with but a few of the most necessary tools and add to them as the need manifests itself. In that way he will be less apt to find himself stocked with tools for which he has no good use.-D. K.

BUZZING UP THE LAND.

T HAT, baking, washing, lifeless, unproductive land is the merciless bandit who robs the laboring farmer of every possibility in the way of profits. This bandit can be outwitted. I have done it.

I was helped to do it by an outcast. This outcast is a plant. In the past we shunned it. There was no place in our busy lives for it. But there is such a place today, and let me tell you, that plant is none other than

Sometimes a cow or a sheep will not eat it. But they can be trained. the land can be buzzed up to virgin conditions without making hay of the blooming, branching sweet clover. Yes, this can be done while the farmer is gathering in cold hard cash from the

Now, you are listening. Well, before you turn your ear, let me tell you to plow that sweet clover under. Use a chain maybe, or anyway, do anything to get the soil on top. Two or three crops will make land mellow, active,

Did I forget something? Yes, you windy city.

remembered it—that cold hard cash You will need some to start with unless you have about twenty good swarms of bees for every ten acres of this sweet clover. I find that these busy, buzzing brothers are capable of gathering the cold cash from this sweet clover. When honey-making weather is reasonably plentiful a score of healthy swarms will secure within sweet nectar. At eighteen or twenty cents per pound-well, figure it. Yes, the total is larger than from beans, or corn, or oats, or wheat.

Of course, you might need a little lime to satisfy the calcium appetite of this vigorous plant. You will have to supply this if, in days gone by, the appetite of clovers has used up the native stores. But lime paves and makes sure and safe the narrow way which leads to production on a virgin soil basis.

Ever-changing humus and home-generated nitrogen must be mined into these emaciated soils. Sweet clover is my prescription. It has the kick. Three doses will bring back the worst cases. You may need to supplement with a little commercial fertilizer. Then let the bees pay the bills as I have done.-Samuel Hagerman.

OTTAWA COUNTY HOLDS SUC-CESSFUL FESTIVAL.

HE fourth annual Ottawa County Farm Bureau festival, held at Coopersville in cooperation with the Grange and the Coopersville Business Men's Association, proved the best ever held. The corn show commanded the greatest attention, there being 670 ears on display. Mr. Howard Rather, who judged the exhibit, writing to Mr. Hambleton, local chairman, stat-"I wish to congratulate you and Mr. Milham very, very much for the exceptionally successful corn and grain show which you had at Coopersville. I have never judged a better corn display of similar nature."

Clyde Hollis, from Hudsonville, won sweepstakes with ten ears of Pickett Yellow Dent Corn. Frank Hambleton, from Coopersville, won on White Dent corn, and Stanley Kurek, from Marne, won on M. A. C. Yellow Dent in the amateur division. A number of these exhibits will be seen at the International Live Stock Exposition and Grain Show at Chicago, December 2-9.

SILVER FOX MEN TO MEET.

HE meeting of the National Silver Fox Breeders' Association will be held at Muskegon on December 6-7, and the annual silver fox show will be held at the same time. Entries for this show are being received from all parts of the United States, and even as far north as Alaska. As Michigan is the leading state in this unique industry, this meeting promises to be of unusual interest. Those who are interested in the possibilities of fox raising will find it worth their time to

LOW RATES TO LIVE STOCK SHOW.

HE world-famous International Live Stock Show at Chicago will be brought much nearer the farmers full of vim and pep and ready to do of Michigan by reason of the low exwhat it did first after the forest was cursion rates provided by all railway companies operating trains into the

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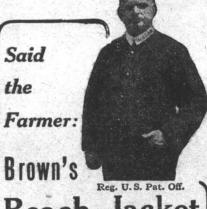
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WORLD EVENTS IN PICTURES



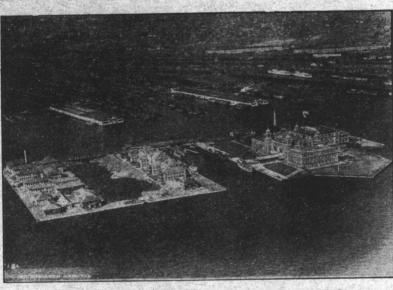
These smiling faces are evidence of the democratic landslide in New York when Alfred E. Smith was again elected governor.



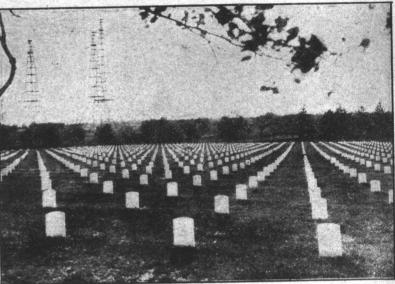
Marian Talley, 15 years old, amazed opera conductors by her wonderful lyric soprano.



Stanley Koenig, four years old, has toured the world with his father, Captain E. F. Koenig, U. S. Army.



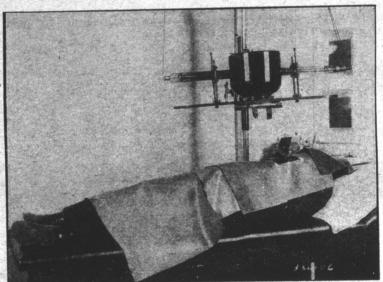
A remarkable air view of Ellis Island, the gateway to America, where nearly a million people land every year from foreign countries as soon as their ship enters New York harbor.



Mothers of many dead war heroes journeyed to Arlington National Cemetery in Washington, D. C., and placed wreaths on the graves of their departed ones.



Edward Houser, of Cincinnati, O., had a special Ford made for him and fills it all himself.



This wonderful X-Ray machine, having a voltage of 200,000 volts, was publicly demonstrated in New York City recently and gave evidence of its power to cure cancer.



Miss Thelma Connor, of Columbia University, is not afraid of rats, mice or guinea pigs.



This remarkable action scene shows Tevis Huhn, of Princeton, clearing the bar first in the 120 yard hurdles in Oxford Seniors' sports in England.



Rescuers at work at the Reily mine in Spangler, Penn., where seventy-six were killed and many injured as a result of an explosion in that mine.

THE CROSS-CUT —By Courtney Ryley Cooper

Harry's case should come to trial. Only few days ago and believes he knows scrapings. I don't know how thick the a week until the failure of the defend- what it's worth. I'm working against of the Blue Poppy mine into the hands can produce ore that runs two hundred But I'll know mighty soon." of the court, to be sold for the amount dollars to the ton and if I'll sell it to of the bail. And in spite of the fact you for one hundred seventy-five dolthat Fairchild now felt his mine to be lars a ton until I can get the money a bonanza, unless some sort of a mir- I need provided I can get the permis- had paid his men for their three days acle could happen before that time, sion of the court-will you put it of labor, there would be exactly twenthe mine was the same as lost. True, through for me?" it would go to the highest bidder at a public sale and any money brought in getting the ore." Then he figured a and with him to an interview, in chamabove the amount of bail would be re- moment. "That'd be thirty or forty turned to him. But who would be the ton" came at last. "We could handle essary permission having been grantbidder? Who would get the mineperhaps for twenty or twenty-five thousand dollars, when it was now worth millions? Certainly not he. Already he and Harry had borrowed from Mother Howard all that she could lend them. True she had friends; but none could produce from twenty to two hundred thousand dollars for a mine, simply on his word. And unless something should happen to intervene, unless Harry should return, or in some way Fairchild could raise the necessary five thousand dollars to furnish a cash bond and again recover the deeds of the Blue Poppy mine, he was no better off than before the strike was made. Long he thought, finally to come to his conclusion, and then, with the air of a gambler who has placed his last bet to win or lose, he went to bed.

But morning found him awake long before the rest of the house was stirring. Downtown he hurried, to eat a hasty breakfast in the all-night restaurant, then to start on a search for men. The first workers on the street that morning found Fairchild offering them six dollars a day. And by eight o'clock, ten of them were at work in the drift of the Blue Poppy mine, working against time that they might repair the damage which had been that as fast as you could bring it ed, he hurried back to the mine and caused by the cave-in.

It was not an easy task. That day and the next and the next after that, child—a new necessity for money. they labored. Then Fairchild glanced at the progress that was being made and sought the pseudo-foreman.

"Will it be finished by night?" he asked.

"Very well. I may need these men not sure. I'll be back in an hour."

Gulch and to the Sampler. There he that sufficient?" sought out old Undertaker Chastine, and with him went to the proprietor. to see where the ore comes from."

"My name is Fairchild, and I'm in trouble," he said candidly. "I've got it," answered Fairchild with a new child led the way to the chamber, seiz-

There was only a week now until cause he assayed some of my ore a I have so far is an assay of some drill vein is or whether it's going to pinch ant to appear should throw the deeds time to get five thousand dollars. If I out in ten minutes after we strike it.

> Every cent that Robert Fairchild possessed in the world was in his pockets-two hundred dollars. After he ty dollars left. But Fairchild did not "If you'll let me see where you're hesitate. To Farrell's office he went bers, with the judge. Then, the nec-

"There's two-hundred-dollar back of this foot wall if we can break in to start a new stope," he announced. "It takes a six-foot hole to reach it, and we can have the whole story by morning. Let's go!"

Along the great length of the foot wall, extending all the distance of the big chamber, the men began their work, five men to the drills and as many to the sledges, as they started their double-jacking. Hour after hour the clanging of steel against steel sounded in the big underground room, as the drills bit deeper and deeper into the hard formation of the foot wall, driving steadily forward until their contact should have a different sound, and the muggy scrapings bear a darker hue than that of mere wallrock. Hour after hour passed, while the drill-turners took their places with the sledges, and the sledgers went to the drills-the turnabout system of "double-jacking"-with Fairchild, the eleventh man, filling in along the line as an extra sledger, that the miners might be the more relieved in their strenuous, frenzied work. Midnight came. The first of the six-foot drills sank to its ultimate depth. Then the second and third and fourth: finally the fifth. They moved on. Hours more of work, and the operation had been repeated. The workmen hurried for the powder house, far down the drift, by the shaft, lugging back in their pockets the yellow, candle-like sticks of dynamite, with their waxy wrappers and their gelatinous contents together with fuses and caps. Crimping nippers—the inevitable accompaniment of a miner-came forth from the pockets of the men. Careful tamping, then the men took their places at the fuses.

"Give the word!" one of them announced crisply as he turned to Fairchild. "Each of us'll light one of these things, and then I say we'll run! Because this is going to be some explosion."

Fairchild smiled the smile of a man whose heart is thumping at its maximum speed. Before him in the long line of the foot wall were ten holes, "upholes," "downs" and "swimmers," attacking the hidden ore in every direction. Ten holes drilled six feet into the rock and tamped with double charges of dynamite. He straightened.

"All right, men! Ready?"

"Ready!" "Touch 'em off!"

The carbide lamps were held close to the fuses for a second. Soon they were all going, spitting like so many venomous, angry serpents-but neither Fairchild nor the miners had stopped to watch. They were running as hard

AUCTION SALES

By Hugh Kephart

Said Brown, "I'm there with auction The overlapping bids to heed sales,

It's just a waste of time, I know, For prices rise like wintry gales If I should take a chance and go.

"My mind must be an open book For all the folks around to read; Just let them see me take a look At some old cow or tool I need.

"Then Southwick, genial auctioneer, Can cease his loud resounding din As all the neighbors far and near Are pegging bids too fast for him.

"He always points a slender stick At bidders when they're acting shy, But now it's flashing just as quick As ever lightning crossed the sky.

"He wheels about with blinding speed. My interest is most sure to whet (A mountain cat would be too slow)

As fast and higher still, they go.

"They're barking like some angry pack As hats and arms are wildly tossed. The modest bid I made-alack! Has gone unheard, forever lost,

"There's magic in my every glance, The neighbors bank upon my eye, They never take the slightest chance When I approve, they rush and buy.

"That very pace I'm always led, I've felt defeat in all my bones, The many girls whom I'd have wed Now sign their names from Smith to Jones.

"And so thru life it seems I get The same results, the same return, Another's greed or grave concern."

here."

But a new thought had struck Fair-

"I'll give it to you for one hundred dollars a ton, providing you do the foreman. hauling and lend me enough after the first day or so to pay my men."

"But why all the excitement-and

"My partner's Harry Harkins. He's to work on a day and night shift, I'm due for trial Friday, and he's disappeared. The mine is up as security. enough to pay each man one dollar Away he went and up the shaft, to You can see what will happen unless travel as swiftly as possible through I can substitute a cash bond for the the drift-piled road down Kentucky amount due before that time. Isn't

"It ought to be. But as I said, I want

"You'll see in the morning-if I've brought Mr. Chastine in with me be- hope thrilling in his voice. "All that ed a hammer and took his place.

into the drift, there to find the last of the muck being scraped away from beneath the site of the cave-in. Fairchild paid off. Then he turned to the

"How many of these men are game to take a chance?"

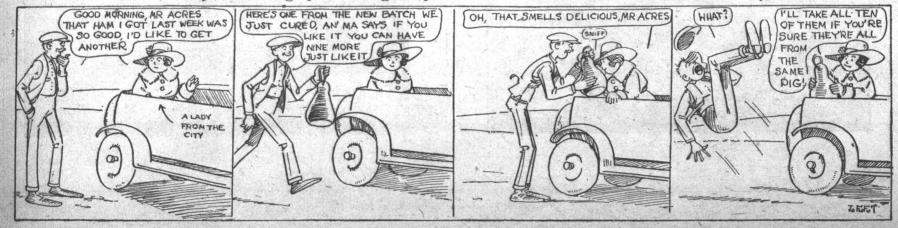
"Pretty near all of 'em-if there's any kind of a gamble to it."

"There's a lot of gamble. I've got just twenty dollars in my pocketapiece for a night's work if my hunch doesn't pan out. If it does pan, the wages are twenty dollars a day for three days, with everybody, including myself, working like blazes! Who's game?'

The answer came in unison. Fair-

AL ACRES-The Lady's Knowledge of Ham Hogs Surprizes Al.

-By Frank R. Leet.



A wait that seemed ages. Then:

"One!"

"And two-and three!"

"There goes four and five-they went together."

"Six-seven-eight-nine-"

Again a wait, while they looked at one another with vacuous eyes. A long interval and then the tenth.

"Two went together then! I thought we'd counted nine?" The foreman stared, and Fairchild studied. Then his face lighted.

"Eleven's right. One of them must have set off the charge that Harry left in there. All the better-it gives us just that much more of a chance."

Back they went along the drift tunnel now, coughing slightly as the sharp smoke of the dynamite cut their lungs. A long journey that seemed as many miles instead of feet. Then with a shout, Fairchild sprang forward, and went to his hands and knees.

It was there before him-all about him-the black, heavy masses of leadsilver ore, a great, heaping, five-ton pile of it where it had been thrown out by the remendous force of the exgreat floor of the cavern was covered with it, and the workmen shouted with Fairchild as they seized bits of the precious black stuff and held it to the light for closer examination.

"Look!" The voice of one of them was high and excited. "You can see the fine streaks of silver sticking out! It's high-grade and plenty of it!"

But Fairchild paid little attention. He was playing in the stuff, throwing it in the air and letting it fall to the floor of the cavern again, like a boy with a new sack of marbles, or a child with its building blocks. Five tons and the night was not yet over! Five tons. and the vein had not yet shown its other side!

Back to work they went now, six of the men drilling, Fairchild and the other four mucking out the refuse, hauling it up the shaft, and then turning to the ore that they might get it to the old, rotting bins and into position for loading as soon as the owner of the Sampler could be notified in the morning and the trucks could fight their way through the snow-drifts of Kentucky Gulch to the mine for loading. Again through the hours the for, the thing he had dreamed of, plandrills bit into the rock walls, while the ore car clattered along the tram line and while the creaking of the block and tackle at the shaft seemed endless. In three days, approximately forty tons of ore must come out of that mine-and work must not cease.

Morning, and in spite of the sleepladen eyes, the heavy aching in his head, the tired drooping of the shoulders Fairchild tramped to the boarding house to notify Mother Howard and ask for news of Harry. There had been none. Then he went on, to wait by the door of the Sampler until Bittson, the owner, should appear, and into his pocket. drag him away up the hill, even before

samples, examined them by the light of the carbides and tossed them away -"you can see the silver sticking

as possible for the shaft and for the out. I caught sight of a couple of penprotection that distance might give. cil threads of it in one or two of those samples. All right, Boy!" he turned to Fairchild. What was that bargain we made?"

> It was based on two hundred dollars a ton ore. This may run above-or below. But whatever it is, I'll send you all you can handle for the next three days at fifty dollars a ton under the assay price."

> "You've said the word. The trucks will be here in an hour if we have to shovel a path all the way up Kentucky Gulch."

> He hurried away then, while Fairchild and the men followed him into town and to their breakfast. Then, recruiting a new gang on the promise of payment at the end of their threeday shift, Fairchild went back to the mine. But the word had spread, and others were there before him.

Already a wide path showed up Kentucky Gulch. Already fifteen or twenty miners were assembled about the opening of the Blue Poppy tunnel, awaiting permission to enter, the usual rush upon a lucky mine to view its riches. Behind him, Fairchild could see others plosion. It seemed that the whole coming from Ohadi to take a look at the new strike and his heart bounded with happiness tinged with sorrow. Harry was not there to enjoy it all; Harry was gone, and in spite of his every effort, Fairchild had failed to find him.

> All that morning they thronged down the shaft of the Blue Poppy. The old method of locomotion grew too slow; willing hands repaired the hoist and sent volunteers for a gasoline engine to run it, while in the meantime officials of curiosity labored on the broken old ladder that once had encompassed the distance from the bottom of the shaft to the top, rehabilitating it to such an extent that it might be used again. The drift was crowded with persons bearing candles and carbides. The big chamber was filled, leaving barely room for the men to work with their drills at the final holes that would be needed to clear the vein to the foot wall on the other side and enable the miners to start upward on their new stope. Fairchild looked about him proudly, happily; it was his, his and Harry's-if Harry ever should come back again—the thing he had worked ned for.

> Some one brushed against him, and there came a slight tug at his coat. Fairchild looked downward to see passing the form of Anita Richmond. A moment later she looked toward him, but in her eyes there was no light of recognition, nothing to indicate that she had just given him a signal of greeting and congratulation. And yet Fairchild felt that she had. Uneasily he walked away, following her with his eyes as she made her way into the blackness of the tunnel and toward the shaft. Then absently, he put his hand

Something there caused his heart to halt momentarily—a piece of paper.

"There it is!" he exclaimed as he led him to the entrance of the chamber. "There it is; take all you want of it and assay it!"

Bittson went forward into the crosscut, where the men were drilling even at new holes, and examined the vein. Already it was three feet thick, and there was still ore ahead. One of the miners looked up.

"Just finishing up on the cross-cut," he announced, as he nodded toward his drill. "T've just bitten into the foot wall on the other side. Looks to me like the vein's about five feet thick—as near as I can measure it."

Something there caused his heart to halt momentarily—a piece of paper. He crumpled it in his hand, he rubbed his fingers over it wonderingly; it had not been in the pocket before she had passed him. Hurriedly he walked to the far side of the chamber and there, pretending to examine a bit of ore, brought the missive from its place of secretion, to unfold it with trembling fingers, then to stare at the words which showed before him:

"Squint Rodaine is terribly worried about something. Has been on an awful rampage all morning. Something critical is brewing, but I don't know what. Suggest you keep watch on him. Please destroy this."

That was all. There was no signative fully—I quickly got he knack of it and have been doing fine ever since.

My First Check Something there caused his heart to

"And—" Bittson picked up a few ture. But Robert Fairchild had seen the writing of Anita Richmond once before!

(Continued on page 597).

Where Was I To Get the Money

and then Emma Broach told me about her "Magic Purse Filler"—an ideal way to earn extra money each week without having to step out of the house.

OW we were going to manage was worrying me almost sick—
I hadn't had anything new for so long that I was getting ashamed to go anywhere. And I wanted things for the house—new curtains and a long list of other items.

curtains and a long list of other Items.
Everet's teeth needed attention. So did mine. And there were some bills six months overdue.
But where was the money to come from?
We were paying for a home. That and the butcher's and grocer's bills and other necessary expenses took every cent almost as fast as Everet could earn it. No matter how we skimped and squeezed and went without, there was never anything left over. I Couldn't Neglect

My Home

"If I could earn some

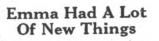
"If I could earn some extra money!" I kept thinking. But it seemed like wishing for the pot of gold at the end of the rainbow.

Nearly every day I had my work all done by one or two o'clock or a little after. Often I was all through by ten or eleven in the morning. It seemed a shame to let all that spare time go to waste when I needed money so badly.

But what could I do?

I couldn't neglect the meals or the housework—so a place in a store or office or any other work requiring regular hours was out of the question. Except for plain mending, I couldn't sew. I knew I was not cut out for canvassing or selling—and besides I was too sensitive about what the neighbors would say to try anything so public. Rack my brains as I would, there seemed nothing else left.

es. Helene Himberg 61 Wyckoff Street Brooklyn, N. Y.



One afternoon last spring when I was feeling blue and discouraged, Emma Broach came over. We had been friends since our school days. But we now lived so far apart that it was often a long time between visits.

Of course I was glad to see her. But I must confess that in a way she made me feel more blue and discouraged than ever. From head to heels every thing she had on was new—she looked as if she had just stepped out of a fashion plate. I couldn't help envying her.

When she mentioned a little trip she had taken the week before, and some new furniture she had just ordered for her living-room, my envy doubled. I knew her husband didn't make any more than Everet. I wondered how she did it. Finally I blurted right out and asked her.

I Was All Ears

"Really, Helene," she answered, "I have bought so many things in the last few months that I know people must think some rich relative has left us all his money. But it's even better than that. I call it my 'Magic Purse Filler'."

"Helene," she went on, "I've found the ideal way to earn money at home—in spare time. It's so easy and interesting that it doesn't seem like work at all."

I was all ears—maybe Emma's "Magic Purse Filler' would solve my troubles too.

"You know how popular wool hose have become," she continued. "Even in summer—for golf, tennis and other sports. And in winter everybody wants them. That's the secret of all my new things—I earn them by knitting hose."

"Oh, no!" Emma explained, in answer to my question. "Not by hand. I knit them on a wonderful little hand knitting machine—my 'Magic Purse Filler'. I can knit a pair in so short a time. And I get fine pay for every pair I make."

Emma Tells The Way

My First Check

The first week—just sitting down at the machine whenever I had nothing else to do—I knit four dozen pairs. A few days later I received my first

check—and how happy and proud I was. Since then the postman has brought me dozens of such checks—Many of them for much larger amounts; but none has ever given me such a thrill as that first one did—for it meant that at last I had found

ant that at last I had found the way to keep my pocket book filled instead of empty—a way to end all the old skimping and worrying and doing without.

Operating the Home Profit Knitter looked so easy that Everet—who at first sort of pooh-poohed the whole idea—got interested and tried his hand. Now many an evening he Now many an evening he fills his pipe and sits down at the Knitter and knits two or three or a half dozen pairs of hose before going to bed—says he would rather do it than read.

I No Longer Have To Do Without

Before long I had all the back bills paid up and enough money to blossom out in new clothes. Also for the first time in my life I now have a little money in the bank—all my own. And the amount is steadily th.

amount is steadily growing larger each month.

It's really surprising what a difference a little extra money can make. More than once I have earned enough in a single week to pay for a nice new dress. The biggest check I ever received in all my life came one week when Everet helped me every evening. Everet said last night maybe we would be better off if he were to quit his job as a painter and give all his time to knitting hose—and at that perhaps there's more truth in his remark than he realized.

Mrs. Helene Himberg.

Mrs. Helene Himberg, 261 Wyckoff Street, Brooklyn, N. Y.

NOTE: The above is an actual experience. It was related by Mrs. Himberg to one of our representatives and is printed here practically in her own words. Mrs. Himberg's signed statement as to the facts is on file in our office.

It's Helping Hundreds Of Others

All over America, the Home Profit Knitter is helping girls and women (and men too) turn their spare time into money—helping people get out of debt—helping them pay for homes—helping them dress better—helping them buy new furniture and pianos, and phonographs—helping them provide for trips and vacations and other pleasures—helping them to lay up money to send their boys and girls to college—helping them build bank accounts—helping them buy cars—helping them get more comfort, more enjoyment and more self-respect out of life.

Knitting socks on the Home Profit Knitter is

out of life.

Knitting socks on the Home Profit Knitter is easy, rapid, profitable and pleasant. You can also knit sweaters, golf stockings, ladies' stockings or children's stockings, and many other articles. All you have to do is to follow the simple instructions. You can send all your work to the Home Profit Hosiery Company and get good pay for it—all on a guaranteed basis—or you can buy your yarn and sell the finished work direct to friends and neighbors and local stores, just as you choose. Either way

sell the finished work direct to friends and neighbors and local stores, just as you choose. Either way you can earn an extra \$5 to \$15 (some do even better) every week the year round—the amount depending on how much time you give to the work. If your regular income is not enough—if there are things you want or need—why not at least write to the Home Profit Hosiery Company and get full information? Through their simple and guaranteed plan you can easily bring an end to your worries about money—and without having to step out of the house. Use this coupon. You should do it right away—it may make a difference of hundreds of dollars a year to you.

Home Profit Hosiery Co.

(Incorporated)

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EXPLANATION:-Figures in the first column represent the regular prices

of other publications.

The figures in the second column give our prices for subscriptions to the Michigan Farmer and the other, publications for one year.

The figures in the third column give the prices at which other publications can be added, if more than one is wanted in combination with Michigan Farmer.

EXAMPLE:—We will send the Michigan Farmer and Detroit Free Press each one year for only \$4.50. If the same party wishes the McCall's Magazine, it will cost 60c extra, or \$5.10 for this combination.

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More Missionaries

Our Weekly Sermon-By N. A. McCune

ship were several hundred Bibles that as this vast people learns the ways of a certain tribe, which this missionary of war. had made. But the Bibles could not be gotten out of the hold for several days, because they were under six E urope is full of fear, and full of despair. There were two or three ies, but not the same kind.

Macmillan, New lifetime." York, which has Are missionaries needed in the Unit-

who has a class of young people. Or to Europe and preached a very noble it would make a splendid book for a doctrine of international brotherhood, reading circle. Let's glance at a few which he said would be organized into things the author says, and one reason a League of Nations. But after that why his statements are or value is, the United States refused to enter this that he is an old and experienced trav- League. Many Europeans believe that eler. This is his fifth journey around it was because we are selfish and the world. For twenty-five years he wanted to make more money out of has been on the wing as one of the Europe. Said a member of the Chinese international secretaries of the Young cabinet to Mr. Smith, "We can't quite Men's Christian Association.

Britannia." She heard America say- ica will be to blame. ing, "America for Americans," and, "My country, right or wrong." She saw Germany, England and Russia takdifferent.

him. But strangely enough, when he ed cities. spoke with all the passion of his soul many internal wars, but she has not a better way." attempted to fight other nations. The boxer trouble was the attempt of extremists to put the foreigner out. And the Chinese say, it hasn't worked. It does not pay to be peaceable. Her lands have been taken, her ports seized, and her richest province is now under some kind of a mandate of Japan. Should China become thoroughly awakened, should her uncounted millions learn the methods of the white

HERE are various kinds of mis- man, she might become the most powsionaries. I read some time ago erful and menacing enemy to peace of a missionary who landed at the world has ever seen. It is needless an African port. In the hold of the to remark, that it is to be hoped that had been printed in the United States, modern civilization more fully, that it from a translation into the language of will learn the ways of peace, and not

thousand cases of liquor. Both the reasons for war in 1914, but there are Bible and the liquor were missionar- a hundred now. Mr. Smith's remarks on France are highly interesting. A missionary has recently returned "France believes that the rebuilding to America who has been around the of the devastated regions is to be deworld. He went as a missionary of layed many, many years. No substangood will and brotherhood. He trav- tial reparations have been paid by Gereled about thirty thousand miles, and many, and none are probable for a
visited the princilong time to come. France lives in pal countries of perfect horror of what the future has the far east, and in store for her. Five times in one Europe. He tells hundred and thirty years she has been his story in "On invaded by Germany. I talked with the Trail of the one man whose home had twice been Peacemakers," by occupied by German officers in his

been off the press ed States? It looks so. One thing is but a few weeks. certain, you cannot explain to the av-It is a most illum- erage European why America-is not inating book, and in the League of Nations. We underwould furnish mastand it, perhaps, but they do not. The terial for any Sunday School teacher fact remains that our President went understand you and your country. You seem to have two kinds of life-one $H^{\,\mathrm{E}}$ went to Japan. There he spoke moral, religious and philanthrpoic. But to great audiences on the world's the other seems to be narrow, selfish need of peace and brotherhood. He and unworthy." The United States, was applauded again and again. He Mr. Smith found, is savagely criticized met a ship builder who had just given because she had not been willing to away two million dollars for educa- continue an interest in European probtional purposes. Ninety-six Japanese lems. "America First," "Keep out of out of every hundred can read and entangling alliances," and the like, are write. That beats the United States, quoted as convenient pretexts for us to He says that Japan has learned her hide behind, so that we take no risks war-like methods from the white man, for the sake of other peoples. Repeat-She heard Germany singing, "Deutsch- edly was it said to our traveler, that land Uber Alles," and Britain, "Rule if another war should break out, Amer-

A LMOST the very day it was known that the United States refused a ing over some of the great sea ports mandate over Armenia, the Turks beof China, and China helpless to pre- gan to be more belligerent and insolvent them. She saw Russia creeping ent. This is a question on which there down on Manchuria, and she said, the are emphatic differences of opinion only way to be big and powerful is to among us. But whether we be demohave a standing army, and to be ready crats or republicans or something else, to fight. She got ready, fought Russia we will in time be compelled to say and won. From the hour Japan won that our country cannot remain isolatover this white nation she has been ed, and let the suffering world take care of itself. We send shipload on Mr. Smith went to China. There shipload of relief, but these do not realso were great audiences awaiting place murdered families, and devastat-

What is the hope of the world? One on the need of a world-wide peace, of thing is certain, it is not in politics, international brotherhood, there was nor is it in armies and navies. A primebut little applause. People did not minister said, "We have tried the poliwarm up to his doctrines. He found tician; they can't keep us from war.
out the reason. China has been a We have tried the newspapers; they peaceable nation, with respect to her have failed. Let us now try the Chrisforeign relations. There have been tian church; perhaps it can teach us

SUNDAY SCHOOL LESSON FOR DECEMBER 3.

SUBJECT:-Jesus sending out missionaries.

LESSON:-Luke 9.1 to 10.24.

GOLDEN TEXT:—The harvest indeed is plenteous, but the laborers are few, pray ye therefore the Lord of the harvest, that He send forth laborers into his harvest. Luke 10.2.

The Cross-Cut

(Continued from page 595).

CHAPTER XXI. Harry Harkins Is Found.

vain; all the cutting hopelessness of seeing her, only to have her turn away had been for their purpose after all. and that the time of the wedding must be fast approaching. Perhaps there had been a quarrel, perhaps-Then he smiled. There was no perhaps about it! Anita Richmond was his friend; she had been forced into the promise of marriage to Maurice Rodaine, but quishment of her desire to reward him somehow, some way, for the attention that he had shown her and the liking that she knew existed in his heart.

Hastily Fairchild folded the paper and stuffed it into an inside pocket. men ,he appointed him foreman of the gang, to take charge in his absence. of the mine and into the town, there feet along the tunnel, to appear mere ry to wherever he might be bound. spectators, but in reality to be guards watching the ore as it ran through the led ton by ton, for the assays by old shadow. Undertaker Chastine and the three proached grinning.

Need any money now?"

"All you can let me have!"

don't guess I'd be taking any risk on off first. And, that accomplished, de- able abode of Crazy Laura! nying himself the invitation of rest

He saw him late in the afternoon, lips moving wordlessly, and he took Squint Rodaine had known of the val- his crooked lips. ue all along, that now he was cursing Fairchild resumed his loitering, but following Squint Rodaine as Rodaine Queen office.

Squint Rodaine did not leave for dinner. The light burned long in the little room, far past the usual closing time and until after the picture-show crowds had come and gone, while the man of the blue-white scar remained at his desk, staring at papers, making row after row of figures, and while

of winter, Fairchild trod the opposite side of the street careful that no one So she was his friend! So all these caught the import of his steady, sendays of waiting had not been in try-like pace, yet equally careful that he did not get beyond a range of vision where he could watch the gleam her head and fail to recognize him, of light from the office of the Silver Queen. Anita's note had told him lit-And yet Fairchild remembered that tle, yet had implied much. Something she was engaged to Maurice Rodaine, was fermenting in the seething brain of Squint Rodaine, and if the past counted for anything, it was somethat concerned him.

An hour more, then Fairchild suddenly slunk into the shadows of a door way. Squint had snapped out the light and was locking the door. A moshe had not been forced into relin-, ment later he had passed him, his form bent, his shoulders hunched forward, his lips muttering some unintelligible jargon. Fifty feet more, then Fairchild stepped from the doorway and took up the trail.

It was not a hard one to follow. The Then, seeking out one of the work- night wind had brought more snow with it, to make a silent pad upon the sidewalks and to outline to Fairchild Following which, he made his way out more easily the figure which slouched before him. Gradually Robert dropped to hire men of Mother Howard's sug- farther and farther in the rear. It gave gestion and send them to the Blue him that much more protection, that Poppy, to take their stations every few much more surety in trailing his quar-

And it was a certainty that the deswho were constantly on the watch for tination was not home. Squint Roanything that might occur. Fairchild daine passed the street leading to his was taking no chances now. An hour house without even looking up. Two more found him at the Sampler, blocks more, and they reached the city limits. But Squint kept on, and far great crusher hoppers to come forth in the rear, watching carefully every finely crumbled powder and be samp- move, Fairchild followed his quarry's

A mile, and they were in the open other men of his type, without which country, crossing and recrossing the no sampler pays for ore. Bittson ap- ice-dotted Clear Creek. A furlong more, then Fairchild went to his knees "You guessed just about right," he that he might use the snow for a betannounced. "That stuff's running right ter background. Squint Rodaine had around two hundred dollars a ton, turned up the lane which led to a great, shambling, old, white building that, in the rosy days of the mining "Four or five hundred? We've got- game, had been a roadhouse with its ten in eight tons of that stuff already; roulette wheels, its bar, its dining tables and its champagne but which now, that!" he chuckled. Fairchild reach- barely furnished in only a few of its ed for the currency eagerly. All but a rooms, inhabited by mountain rats and hundred dollars of it would go to Moth- fluttering bats and general decay for er Howard-for that debt must be paid the most part, formed the uncomfort-

And Fairchild followed. It could that his bed held forth for him, he mean only one thing when Rodaine started out into town, apparently to sought the white-haired, mumbling old loiter about the streets and receive hag whom once he had called his wife. the congratulations of the towns-peo- It could mean but one outcome, and ple, but in reality to watch for one that of disaster for some one. Mother person and one alone-Squint Rodaine! Howard had said that Crazy Laura would kill for Squint. Fairchild felt shambling along, his eyes glaring, his sure that once, at least, she had lied for him, so that the name of Thornton up the trail. But it led only to the Fairchild might be branded as that of office of the Silver Queen Develop- a murderer and that his son might be ment Company, where the scar-faced set down in the community as a perman doubled at his desk and, stuffing son of ill-intent and one not to be a cigar into his mouth, chewed on it trusted. And new that Squint Rodaine angrily. Instinctively Fairchild knew was seeking her once more, Fairchild that the greatest part of his mean tem- meant to follow, and to hear-if such per was due to the strike in the Blue a thing were within the range of hu-Poppy; instinctively also he felt that man possibility—the evil drippings of

He crossed to the side of the road himself for the failure of his schemes where ran the inevitable gully and takto obtain possession of what had ap- ing advantage of the shelter, hurried peared until only a day before to be forward, smiling grimly in the darknothing more than a disappointing, un- ness at the memory of the fact that lucky, ill-omened hole in the ground, things were not reversed; that he was evening found him near the Silver once had followed him. Swiftly he moved, closer-closer; the scar-faced man went through the tumble-down gate and approached the house, not knowing that his pursuer was less than fifty yards away!

Continued next week).

Six square feet is the minimum con venient area for a kitchen work table according to kitchen score cards adoptoutside, facing the chill and the cold ed by a number of housewives.



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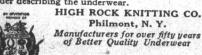
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Please Mention The Michigan

oman's Interests

Cross-Eyed Mary

very first that she had ever been away that the mother realized the injustice from home. She was six years old and she had done. now was going to be a little lady. The rapture she felt as she thought of the be kept from the dear little ones we other girls she would meet and play love, and many hours of regret from with. Her cup of joy was full and overflowing.

Reaching the school she formed in her-some grinned, some smiled, some parent. Many of these cases merely laughed at her and said, "hello, crosseyes." For the first time in her little

life she suffered a pang of pain as she had never suffered before, for she realized that she was different from the others-she was cross-eyed.

The day at school dragged on and on. It was so long. It seemed that she would never get away from it. But, when the day ended she hurried home amid the jeers of boys and girls calling after her-"Cross-eyed Mary." Her dear little heart was broken and all the joy she felt. in the morning was turned to tears.

She persevered at school day after day until she could stand it no longer. Then she went to her mother with big tears in her eyes and told her all

she wasn't the same as other girls.

TITH golden curls and rosy little arms were clasped about her cheeks she skipped joyfully to mother's neck, with the big tears rollschool. It was her first day, the ing thick and fast down her cheeks,

Many heart-aches and sorrows can parents, if they watch carefully over their children. Little Mary's eyes should have had attention when the line with the other girls who stared at first tendency of trouble became aprequire lenses to correct the defect

Then She Realiz-

her troubles. She begged her mother which causes the eye to cross. The child is neglecting a plain duty.-Eye-

ed She Was Dif-

ferent from the

Others.

not to send her back to school because parent who neglects the eyes of the And, it was not until those chubby sight Conservation Council of America.

Hints for Christmas Gifts

ready at Christmas time. Bags of all kinds are always acceptable, and even the men carry them. Here are some hints for making purses. The material may be wide ribbon, silk plush, velvet, leather, sealskin, or fur. If silk or satin is chosen, one can get it plain, stamp with a pretty design, and paint it in oil colors. If oils are used, be sure and press the painting in on the wrong side. Among the pretty designs are owls, bird of paradise, a basket of flowers, etc. A Christmas greeting with the name of the owner-to-be, can be placed inside. It can be beaded in, if preferred.

Shirr a wide ribbon around the sole, ture. However, in one country home red, blue or any shade desired.

Earth, Good Will to Men."

NOW is the time to plan for the bunch of Christmas flowers, is accept-kind of gifts that you wish to have able. Book marks with hand-painted designs, hand-embroidered handkerchiefs with worked monograms in the corner are good. Plan to make your gifts practical as well as beautiful.-Miss I. D.

"JUST THE HOUSEWORK."

THE average farm wife will walk about twelve miles daily doing just the housework about the home and farm. Scientific minds have worked out different simple arrangements for the home that will cut down her steps by half.

It is well to plan to have a small Bath slippers are made by purchas- kitchen with no more wall space than ing a pair of white wool-lined soles. is necessary to accommodate the furniafter placing a design of flowers, or which I observed a short while ago, the oration, if desired. The ribbon or silk than if the kitchen had been small. make one dozen muffins. used for the slippers, may be of pink, The sink, stove, table, cabinet and cup-Farmer when writing to advertisers monograms gilded on the corner, a was that a raised threshold had been and serve hot.-Miss H. A. L.

avoided between the kitchen and the dining-room, so that the kitchen cart might roll smoothly through.

An important small item was the kitchen stool. It was similar to the style used in some drygoods stores and lunch rooms. It was attached to the cabinet and was so located that it could be used when doing work at the cabinet or sink. When not in use, it could be pushed under the cabinet entirely out of the way.

By some little changes in your kitchen, it may be that you may save on the twelve miles that the average housewife covers every day.

THE ART OF MAKING WHITE OR CREAM SAUCE.

A ND it truly is a culinary art to make this sauce to the creamy consistency that will tickle the palate of every member of the family.

One very good rule to remember in its making, as well as in the daily menu is, "nothing done in a hurry is ever done well." When making this sauce, give yourself plenty of time. You will need one pint of milk, or use halfand-half of milk and white stock, two tablespoons of butter, two heaping tablespoons of flour, one-half teaspoon of salt and a liberal dash of pepper.

First heat the milk in a double boiler. Some have advised the use of cold milk, but I find I have the best success if it is heated.

Put the butter in a saucepan on a slow fire, and stir until it melts and bubbles. Be very careful not to brown it, add the flour (dry) and stir constantly until well mixed. Pour on about one-third of the milk. Let it boil, and stir well as it thickens. One may tip the saucepan slightly to keep from sticking. Add about half of the remaining milk, let boil and thicken and stir vigorously until perfectly smooth. Be sure to rub out all lumps while it is yet very thick. Now add the remainder of the milk, salt and pepper and let boil, stirring the while that it may be perfectly smooth.

One can "dress up" the most commonplace dish, such as salmon, potatoes, fish, vegetables and numerous special dishes, to look very tasty. A touch of "something different" may be given to some of the dishes if bread crumbs that have been put in melted butter, or dried beef cut into bits, or pimentoes cut in shred, or grated cheese, be added to the sauce just before combining with the other food.

TESTED RECIPES.

Bran Muffins-4 cup sugar, shortening size of an egg; cream shortening and sugar together. Add to this 1 egg, 1 cup sour milk (or sweet milk), 1 cup prepared bran, 11/4 cup flour, berries on the toes. Shir the top on kitchen was large, but very well ar- 1 level teaspoon soda (or 2 teaspoons a rubber, the size of the ankle. Put ranged and I doubt if many more steps baking powder if sweet milk is used), a bow of ribbon in front, or other dec- were required in doing the daily work pinch of salt. Mix well. This will

Baked Squash (whole)-Scrub the board were all placed close together. squash clean, then cut one slice from All kinds of dainty boxes are ac- The cabinet was situated between the one end so that it may stand securely. ceptable. One for home-made candies stove and the sink so as to be in reach Then arrange it in the oven, and bake can be made of blue blotting pads. Cut of both water and raw materials. The until very tender. The squash will into the desired shape, while flat. sink was large enough to hold the take about thirty minutes to bake. Bring up the corners, and sew togeth- dishpan and the rack for draining the Then allow to cool and cut off the top er with blue silk cord or ribbon. A dishes. The cupboard for the dishes and scoop out the inside leaving the nickle or brass clasp can be purchased was only a step away. A drawer in shell. Mash the pulp, and add to it a to fasten the cover. Paint some Christ- the cabinet at the left received the cream sauce, then return to the shell mas greetings on the covery, a holly kitchen silver. The other dishes were in layers and sprinkle each layer with branch or a sweet little verse from a put on a kitchen cart to be carried to grated cheese and small pieces of but-Christmas hymn, such as "Peace on the dining-room cupboard, which was ter. Cover the top with browned and located near the kitchen door. A very seasoned bread crumbs and mixed A box of writing paper, with the important detail that was noted here cheese and butter. Brown in the oven

Some Short-Cuts in Sewing

By the Prize Winners

First Prize.

Mirs A. H., Battle Creek, Mich.

When gathering, lengthen the ma- sewing the seam. chine stitch and make two rows of inch apart. Draw up one thread of each row and you have neat gathers that will not slip out of place.

When putting on a straight facing cut the stitching. or binding, let one edge be selvage. This saves much time and basting.

The less particular things may be pinned instead of basted. If you are careful to put the pins in at right angles to the line of stitching, the machine foot will pass over them with no trouble.

A little fancy stitching adds much to the appearance of some otherwise plain looking things. Wind floss on the bobbin of your machine, loosen the shuttle tension enough to allow the floss to pass through easily, and

A Christmas Dessert

R ING out the bell for Christmas" for that holiday is now on the way, and the busy housewife has already begun to plan for the Yuletide dinner.

Just what to have is always a perplexing problem. Perhaps it is roast fowl and potatoes in their jackets, but what about the trimmings? For the best letter with recipes for a dessert course for a Christmas dinner we will give a three-piece kitchen set. The second and third prize winners will receive a pair of fancy six-inch scissors, and the following two will each receive needle

Send your letter to the Household Editor, Michigan Farmer, Detroit, Michigan, before Decem-

lengthen the stitch. Ordinary thread is used for the needle. Stamp the material and work on the wrong side. This stitching has the appearance of couching.

Second Prize.

Mirs. S. R. B., Montgomery, Mich.

When cutting children's garments from a small amount of goods and piecing is necessary, piece where trimming would look most effective. Cover the seam with a bit of braid or a simple design in embroidery work or a few fancy stitches, as the long and short stitch, or feather stitch. On garments for grown-ups wool yarn or beads can be used in charming effects.

To do punch work by a short-cut method, use a design such as a wild rose or butterfly, baste a piece of strong paper underneath, then a piece of coarse curtain net. Work through all. When finished cut out linen, being very careful not to cut net. Tear out paper, leaving net, which greatly resembles punch work. This can be worked to great advantage in mending thin breaks in lunch cloths and also to cover stains. Work the design over the stain or hole and cut away.

Third Prize.

Mrs. A. S., LeRoy, Mich.

as when I baste it.

clothes on the sewing machine. I put serve hot with tomato sauce.-Miss a patch on the knee of a pair of over- H. A. L.

alls by ripping up the inside leg seam, sewing the patch in place and then re-

In making buttonholes in every-day stitching about three-eighths of an garments, I sew back and forth three or four times, leaving a small space in center where buttonhole is needed. This is then cut, being careful not to

> In making plain garments I cut out several garments at a time. Then stitch all seams so as to have them ready for pick-up work at odd times.

> To prevent ripping in tablecloths, sheets, or towels at the ends, I sew back and forth two or three times in the same place instead of tying the threads.

When hemstitching wears out, I stitch serpentine braid across the worn edge. This makes a neat finish and lasts a long time.

When I get new underwear I stitch two or three times around the buttonholes on the sewing machine. This prevents them from stretching or losing their shape.

Founth Prize.

Mrs. H. A., Carsonville, Mich.

I have five children to sew for, the oldest being five years of age. I do my summer sewing in the winter when the men are not working very hard and don't require the hearty meals that take so much time to prepare. I use lots of pins and do very little basting. I do the stitching with No. 40 thread, and instead of French seams lay the edges together and fold over about one-quarter inch and stitch. I find this will hold as long as the cloth will wear.

I make everything I can with the kimona sleeves. When it comes to darning men's cotton work socks, I crochet around the hole with knitting cotton, using single crochet and skipping every other stitch until hole is filled. I use tape to tie children's nightgowns instead of making buttonholes.

Fifth Prize.

Mrs. T. R. C., South Boardman, Mich. I think my greatest short-cut in sewing is the plain slip-over dress with sleeves and body all cut together. I use an old dress for a pattern. Cut

out, finish around the neck and opening first. Sew up the two sides and arm seams, hem, finish the sleeves with bias binding, put on the fastening, the dress is ready to wear. I put straps on the side seams and make a sash or a belt. The neck can be opened down the front, back or on both shoulders.

A yard and a half of pink checked percale, scalloped around the bottom and sleeves and finished with white bias binding and a white lawn sash made a very pretty dress for my seven-year-old daughter.

I find that a supply of cotton tape and bias binding of different widths is a great help. I always have a package of safety razor blades that are sharp on only one side, at hand when I want to do ripping.

PUMPKIN CROQUETTES.

In a mixing bowl mix two cupfuls of boiled and drained pumpkin with two tablespoonfuls of butter, salt, pepper and paprika, to taste, and one-comprising the doll and garments, is I have a family of seven to sew for, of I have to use all the short-cuts I can. I do very little basting and find can make the work look just as neat swhen I baste it.

I do my patching of every-day littles on the sewing machine. I put the patch on the knee of a pair of over
Mrs. A. S., LeRoy, Mich.

pepper and paprika, to taste, and one half cupful of fine cracker crumbs, stir well, together, until well heated, then allow to cool, and shape into neat croquettes, brush over with beaten egg, hot fat to a golden color, drain and lothes on the sewing machine. I put the patch on the knee of a pair of over
Mrs. A. S., LeRoy, Mich.

pepper and paprika, to taste, and one half cupful of fine cracker crumbs, stir well, together, until well heated, then length. The doll requires for a medium, 16 inches; large, 20 inches in length. The doll requires for a medium size, a half yard. The rompers seven-eighths of a yard. The suit and hat, 1¼ yards of 27-inch material. Price 12c.

No. 4187—Cut in four sizes, 6, 8, 10 and 12 years. A 10-year size requires 2½ yards of 44-inch material. Price 12c.

No. 4193—Ladies' Apron. Cut in four sizes, 6, 8, 10, 12 and 14 years. A 10-year size requires 2½ yards of 44-inch material. Price 12c.

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No. 4187—Cut in four sizes, 6, 8, 10.

I do my patching of every-day bar and 12 years. A 10-year size requires 2½ yards of 44-inch material.

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No. so I have to use all the short-cuts I well, together, until well heated, then can. I do very little basting and find allow to cool, and shape into neat cro-I can make the work look just as neat quettes, brush over with beaten egg,





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GOOD RECIPE FOR MILK BREAD

MILK BREAD

3 quarts of Lily White Flour,
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1 cake of Fleischmann's
yeast. Set in morning in
warm place and rise until
light. 3 teaspoons of salt,
1 tablespoon of sugar,
1 tablespoon of melted butter
or lard. Mix with Lily
White Flour until stiff, or
from 20 to 25 minutes. Set
in warm place and let rise
until light. Make in loaves
and work each loaf from six
to eight minutes. Set in
warm place until light.
When light take warm milk
and sugar and put over top. when light take warm mind and sugar and put over top. Keep good fire and bake slow one hour and when baked wash over again to make nice smooth brown

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4193



No. 3656-Ladies' House Dress. Cut in seven sizes, 34, 36, 38, 40, 42, 44 and 46 inches bust measure. A 38-inch size

bust measure. A medium size requires $4\frac{1}{2}$ yards of 36-inch material. Price 12c.



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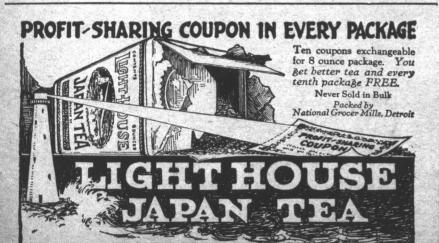
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Household Service

Use this Department to Help Solve Your Household Problems. Address all Letter to Household Editor, Michigan Farmer, Detroit, Mich.

MUSTARD DRESSING.

Will you please publish recipes for making home-prepared mustard that will taste like the mustard one buys at the store?—Mrs. W. H. E.

It is impossible to make a prepared mustard exactly like the commercial brand one buys at stores, as this recipe is secret and the process lengthy. The following is a recipe for a very good mustard dressing.

Use one and one-half tablespoons of mustard, one egg, one tablespoon corn starch, one tablespoon sugar, one tablespoon salt, a little pepper and a half pint of vinegar. Mix all together and cook in a double boiler until thick. This will keep a long time if air is excluded.

HOW TO MAKE CHOP SUEY.

Will you please send me a recipe for making chop suey, and also a may-onnaise for fruit?—Miss M. M.

Crop Suey.-Cook one and one-half pounds of loin pork until tender; cut in one-inch pieces. Chop one bunch of celery. Place half cup of oil in a er you beat it the better it is.

fryingpan and then dust half cup of flour over the diced meat. When fat is hot, add meat and brown slightly. Next add celery and half cup of white onions chopped fine; quarter pound of Chinese chestnuts; half pound of bean sprouts; one can broken mushrooms; one teaspoon salt; one teaspoon pepper; three cups liquid from cooked pork. Simmer slowly for three-quarters of an hour and serve with rice.

To Make Bean Sprouts.-Wash navy or lima beans and soak over night. Cover a wire rack with a piece of cheesecloth and then with a layer of cotton batting. Lay the beans on in single rows and cover with another layer of cotton. Keep moist with slightly warm water in a sunny win-

Fruit Mayonnaise.—Beat together the yolks of two eggs and all the sugar they will take. Add half a teaspoon each of pepper, salt, celery seed, ground mustard; then add half cup of vinegar and cook, stirring constantly. When cooked, add a lump of butter, the size of an egg and beat. The long-



WHY SUFFER RHEUMATISM?

F you can think back a quarter century you will remember that it was more the rule than the exception to find our grandfathers and grandmothers, and even our uncles and aunts, in many cases, to be all crippled up with rheumatism. It is not imagination that leads you to think that the present generation of ancestors shows more immunity to the ravages of this crippling disease. It is a certainty, verified by the fact that mortality statistics show a drop in the death returns from rheumatism of more than forty per cent.

This is very gratifying but it does not alter the fact that much misery is still borne by certain victims of the disease, as is shown by frequent letters from sufferers. Very many of these cases may be cleared up if an intelligent attempt is made to get to the seat of the trouble instead of wasting effort and money in palliatives, such as liniments and other external applications.

We have learned that in most cases of rheumatism there is a focus of pus poisoning somewhere and that the way to cure the trouble is to locate and get rid of this focus. Quite often it is at the roots of decayed teeth, and it not infrequently happens that teeth showing no special signs of decay, when subjected to the searching power of the X-Ray show unsuspected ab- case. scesses.

The tonsils come next as the propable seat of trouble. It is not their size that counts, but their condition as to disease. If both teeth and tonsils can be shown to be innocent the trouble may yet be found in some of the sinuses of the head, or in an old dis- all day?-J. K. L. eased appendix or infected 'gall-blad-

fection as nothing else will.

It is a mistake to think that diseas- no device is going to bring him back:

ed teeth account for all the rheumatic and arthritic pains of which people complain. Many persons, acting on this theory, have had good teeth removed and bemoaned the absence of beneficial result. There are many sources of infection quite apart from the teeth. The poisonous agent is the collection of pus and this will be true wherever it may be located. It is absolutely imperative that it be removed for not only does it give rise to distressing aches and pains, but it drags down the whole system and does serious damage to the heart.

IODINE FOR GOITER.

My daughter, age fifteen, has rather a large neck and I am afraid of goiter. Please tell me if iodine taken internally is good. Is there anything better that we can apply ourselves?—

In making experiments in a certain district where goiter was very common, it was found that giving thirty grains of sodium iodid, twice a year, to a large number of girls prevented them from developing any enlargement of the thyroid gland. This is safe treatment, but it is my opinion that it is always better to consult a doctor and get the treatment that is applicable to the special case in point rather than go ahead on general plans which, after all, may not suit your individual

USING PULMOTOR.

Is it any good to use the pulmotor or attempt any other form of artificial respiration in a drowning accident where the body has been in the water

Not if the water was deep enough to shut off respiration. When a body Generally it takes a very skillful has been in the water only a short physician, making a very searching ex- time artificial respiration should alamination, to locate the exact trouble, ways be tried, and it should be begun but once it is found the removal of at once without waiting for a pulmotor this deadly focus will clear up the in- or other device, as every second is precious. But once a person is dead

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Established 1895

Our Boys' and Girls' Department

How I Got My Deer

The Experience of One of the Club Boys By Russell Mackey .

to be the most interesting to the specimen. man with a gun. It is at this time they are numerous, although the herd unless the season will be closed for a not fear me in the least. few years.

go in search of these quadrupeds. I have not been very successful as a hunter of deer but somehow or anothbuck during the season of 1921. I

HE month of November proves how I succeeded in shooting this fine

The first day of the deer season of the year that a war is waged found me roaming the woods in search against the monarch of the Michigan of game. Deer were plentiful but I woods, the deer. Every year thousands could not get within sight of the kind of men leave their employment and go I wanted. Small deer without horns in search of this animal. Thousands almost walked up to me but I would of deer are killed every year but still not shoot them. Probably they knew that the law warned any hunter against is decreasing and will soon be extinct shooting them and therefore they did

Each of my brothers succeeded in I am a nimrod myself and every year shooting a five-pointed buck, and because of this I began to possess the hunting fever more than ever.

At last my chance came. One fine er I succeeded in getting a very large afternoon I decided to go out with my brother to look around for signs. We shall endeavor to relate to the boys came upon the imprints of a large

buck. I was rather inquisitive and asked my brother if the track was a fresh one. He informed me that the deer had gone through about two hours

Being aware that the deer had a good start I decided to try my best in overtaking him. Such a task proved to be very difficult one. The deer went through places that were almost impenetrable. At last I arrived on a hill overlooking a stream and spruce woods. I descended this hill and crossed to the hill on the other side of the ravine. The sun began to near the horizon so I thought it best to start back to camp. However, a fine shot presented itself. A partridge was sitting under a small balsam. I applied the sight to him and pulled the trigger. The result was that Mr. Partridge lost

I retraced my steps to the hill from which I started and after reaching my destination I decided to follow the summit of the hill until I struck the trail that led to the camp. I had a keen eye on the country below me. At last my eyes detected something that looked like a pair of antlers. I looked a second time and being convinced that the object was a deer I raised my gun to my shoulder and after getting a bead on him I fired. The large monster fell on his knees but was up in a second. The sight pleased me so much that I shouted, "I've got him." The way I descended that hill reminds me of a hotly contested race. When I arrived at the bottom of the hill I could not locate the spot in which he was standing. After a hasty search I found it and began to follow the retreat of the creature. No signs of blood could be seen at first and I became disgusted, because I thought I had missed the target. At last specks of blood appeared on the snow. This increased my speed. I was practically on top of the animal before I detected it. It was located in a small hollow and a close examination disclosed that it had gone to the Happy Hunting Grounds.

A very difficult task presented itself. It was necessary for me to remove the entrails. At last I accomplished my task and through this act covered my hands and face with blood.

When I arrived at the camp I was asked if I had shot a deer. I expected to keep this a secret and would surprise them later, and accordingly answered "No." My brother in return replied, "Yes, you did. I can see some blood on your face." My hopes of keeping this a secret were destroyed and therefore admitted that I had shot a beautiful five-point buck.

I later weighed this deer and it proved to be a very heavy one, weighing 181 pounds.



Russell Mackey, His Hunting Trophy and His Handicraft Club Outfit.

Our Letter Box

HIS letter box will be where the boys and girls can express their views, tell of themselves and things about the farm, or ask advice. The most interesting letters each week will appear here. Address your letters to me.—Uncle Frank.

Dear Uncle Frank:

This is the first time I ever attempted to write to you, although I have wanted to awfully bad.

My daddy has taken the Michigan Farmer for some time.

I am sixteen years old. I do not live on a farm, but just moved off of one last spring. We are renting a house at Austin Corners and I tell you it's some village.

I am at home alone at present, and lave here all weeks as I have to take

have been all week, so I have to take care of the house and four children, the youngest not quite two years old, (Uncle Frank, please excuse all mistakes, but this pen of mine has balky streaks and I forget and try to spell words different than what they ought be), and we certainly do have a lot

of fun with him. He walks all over and says everything. The people next door have three children and they have the whooping

I will tell you what we have for pets, then I must quit my chattering, be-cause once I get started I do not know enough to stop. We have five cats and one cow, and she is some pet.

well, so-long until next time Your niece, Gladys Knowlton, Davisburg,

It must be that pen helped, as your spelling was all right. It must be nice to live in "some village," at least your neighbors seem to have a whooping time there.

Dear Uncle Frank:
I am sending you an answer to your puzzle. We do not get your paper, but I read it at our neighbors. I really like the Al Acres, and also the Cross-Cut. Our neighbors have a Frank, and I often thinks he looks like you.

I go to school every day. Am in the at school, and I like them very much.

sixth grade. We live on a sixty-acre farm. I would like to have some of the nieces and nephews write. Your loving nephew, William Panta.

What does your neighbor's Frank look like. Is all his hair on his chin and none on his head, or has he plenty on his head and none on his chin? Tell me what he looks like and I'll tell you if you are a good guesser.

Dear Uncle Frank:

Dear Uncle Frank:
May I join in, and be your nephew?
I have some tame rabbits, a camera, a violin, and had two pet doves but they left one morning. My brother and I went out with his twenty-two rifle to see if we could shoot some sparrows. We went in the chickencoop and there was one of our tame doves. My brother was going to shoot it but it told him, "No." So he set his rifle down and caught it with his hands. He grabbed it by the tail. It tried to get away. All at once the dove got away, leaving in his hand a handful of tail feathers, and the next morning we went out but the dove did not come back.

Well, I will close for this time. Vesper Butts, Clayton, Mich.

I am glad your brother did not shoot the dove, although I bet it feels the loss of its tail. You certainly can be a nephew.

Dear Uncle Frank:

On Saturdays my brother and I have a race to the mail box to get the Michigan Farmer, which we all enjoy reading. The first thing I look at is the Boys' and Girls' page and when I see the heading, "Read-and-Win," I get play

We have hot lunches again this term

A CHARACTER SKETCH.

BY ZELDA F. WOOD.

There sits in this school-room, day by

day A girl who is serious, yet sweet and and gay; Her hair is the brown of autumn

leaves When harvesters gather in their

sheaves; Her eyes are the blue that a sailor spies On a tropical ocean, 'neath tropical

skies. She is never vain, or cross, or cold She is sweet and gentle—but never bold,

And her cheerful nature, and kindly smile

play
This one of them all, it seems to me
Is just what a school girl ought to be.
Adrian, Michigan.

I am cook this week, and if you come cayed minnow in, in place of parsnip out I trust you will have something juice, and three or four drops of abundance.

('Read' but do not 'Win.'

Well, I will have to go to bed now, so that I can study tomorrow. Goodnight! Your niece, Lucille Stuckey, Redford, Mich., RR. 3.

Just keep on reading and some day you may win. I'd take my chances on something good with you as chief cook.

Dear Uncle Frank:

Dear Uncle Frank:

I am a little city girl that wants to join your happy column. I am twelve years old and I am in B-7 grade. I love the country very much. One time when I was at my aunt's house in Washington I went out in the field to pick berries and on my way back I was lost in the oats field. I came out on the other end and went back to the house. My father has been a reader house. My father has been a reader of the Michigan Farmer many years, and I also have enjoyed the boys' and girls' section. I remain, your niece, Dorothy Wicke, 5064 Garland Avenue, Detroit, Mich.

I think we are all very glad to have you join us. Apparently it was so easy for you to get lost in the oat field as it is for some folks to get lost in the city.

Dear Uncle Frank:

I raised about a quarter of an acre of popcorn and got twenty bushels off it. I also raised a half-acre of sugar beets. I have caught three muskrats beets. I have caught three muskrats already, but today the water is so high that I can not find the traps. This year I caught nearly thirty rats and I got ten cents each. I bindered thirty-five acres of grain this year, and I helped haul it in. My father raised 1,700 bushels of grain.

Well, I must stop as my letter is getting too long. Another new nephew, Erwin Helmrich, Bay City, Mich.

I hope you do well selling your non

I hope you do well selling your pop corn. I think it is very nice that you are interested in things which bring you a profit.

Dear Uncle Frank:

Dear Uncle Frank:

I was very pleased when I came home from school and found my map lying on the table. I like it just fine. I didn't think I would get one. Now I am going to try again. I took my map to school. I am going to have the teacher put it on the wall.

We have three kittens and one dog for pets. We have lots of fun with them. I like to read your letters in the Michigan Farmer.

Well I must close. I remain, as

Well, I must close. I remain, as ever, your loving niece, Nina McCall, Marlette, Mich.

I like your unselfishness in wanting all of the school to get the beneat from your map. I hope you are successful again.

Dear Uncle Frank:

I am answering your questions for the first time. I am a boy fifteen years old, and am a member of a calf club, also a handicraft club. I received the county championship last year and en-joyed a week at Lansing. I have a calf five months old. It eats oats, hay, and most everything. I like to feed it bran as it will eat it right from my hand. I live on a 100-acre farm and enjoy helping my father with the work. Sincerely yours, Clarence H. Braun.

Good for you. I hope you will add other championships to your list before you quit.

A TRIED AND TESTED BAIT.

BY JOHN O. ROBERTS.

HE following formulae may be compounded by anyone and is excellent lure for the animals intended. Mich., RR. 1. For muskrat lure, extract parsnip boiling (boiling keeps it).

Procure five cents worth of oil of annis and five cents worth of oil of Rapids, Mich., RR. 6. bergamot from your local drug store.

Hazel Marvin, Albion, Mich., RR. 2. Mix the oil of annis and oil of bergamot together and add parsnip juice to blend perfectly, both in smell and taste. Add strong soapsuds until the mixture flows freely. This makes a good bait, but by adding a little musk from the rat's scent glands you have a powerful lure that appeals to both appetite and passion. (Parsnip must be boiled thick).

To prepare for skunk compound the same way, except to put a small dejuice, and three or four drops of skunk scent in place of rat scent. In this you also have a powerful lure equal to and better than many patent lures advertised.

Use just a couple of drops on a small bunch of grass, or brush, placed close to the trap.

Never allow the muskrat bait to spill in running water, as the fluid will spread and float, thereby giving all the rats a taste and losing all their wish to get at it any more.

THE PUZZLE SOLUTION.

MANY had the puzzle which appeared in our November 18 issue, correctly solved. In fact, a great many more than I expected got the mixed English straightened out and then found the answer to the question. In

Imagination Contest

M AUY have asked that Uncle Frank's picture be printed in these columns, because they want to see what the fellow they are writing to looks like. All the pictures the camera has taken so far would spoil the page, so none of them have been used. Therefore, this week you are asked to make a drawing of what you think Uncle Frank looks like. You can make this picture funny or serious, just as you like. Let your imagination guide your pencil, and we're sure you can do as well as the camera did, anyhow. The ten best drawings will receive the usual prizes: The first two, Michigan Farmer pencil boxes; the next three, nickled pocket pencils, and the last five, Michigan Farmer maps of the world and new Europe. Please send your pictures to Uncle Frank, Michigan Farmer, Detroit, Michigan, before December 8.

order to compare your replies with the correct one, the latter is given below: QUESTION-HUNT.

What per cent of Michigan cattle are tubercular?

Answer: Three and one-half per cent. Page 26 or 548.

THE LUCKY TEN.

BECAUSE of the large number who had the answer to the combination puzzle of November 18 correct, I had to use the drawing method of determining the winners again. This I felt was the only fair way in which I could pick the winners.

The ones who were lucky enough to have their papers drawn out of the basket were:

Pencil Box.

Nellie Mayer, Three Rivers, Mich., RR. 4, Box 131.

Max Knude, Bridgman, Mich.
Nickled Pocket Pencil.
Louis James Simonich, of L'Anse, Mich., Box 985. Cecilia A. Wiegand, Warren, Mich.

Lura Ten Have, East Saugatuck,

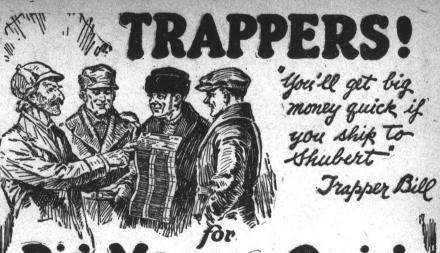
Maps. Monroe, Mich., Josephine Laprad, RR. 4. Bessie Smith, Laraway Road, Grand

Vaughn Hill, Grand Ledge, Mich.,

WANT TO CORRESPOND.

The following would like to correspond with other young folks interested in this department:

Violet Williams, Roscommon, Mich. Aletha Topham, Clifford, Mich. Fern Chamberlin, Topinabee, Mich. Mildred Frinkel, Port Hope, Mich. Gladys Coxen, Ovid, Mich.



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Rat proof your granary, corn crib, cellar, poultry house, etc. with YOUNGS-TOWN EXPANDED METAL. Put it anywhere a rat may find an entrance, The fine mesh of this metal will keep out the smallest mouse as well as the

As a special inducement to get to try Youngstown Expanded Metal for rat-proofing, we have a limited quantity of this material in narrow widths and vary-ing lengths to be sold at 3c per square foot—freight paid to your depot. Figure up the quantity you can use, and order direct from our \$1,000,000 factory,

A few dollars invested now will more than pay the slight cost of rat-proofing all your buildings.

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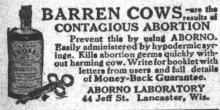


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Some men achieve a pure-bred herd of dairy cattle by the simple expedient of buying one ready made, and \$850. then spending the rest of their lives in the effort to maintain the herd, get back the original investment, and pay they were of the kind intended for dividends upon the money invested. The pure-bred business cannot be learned over night, and offers no quick road to wealth, even if it does hold out the hope of good rewards for the brought up the total average of the skilled stockman and business man.

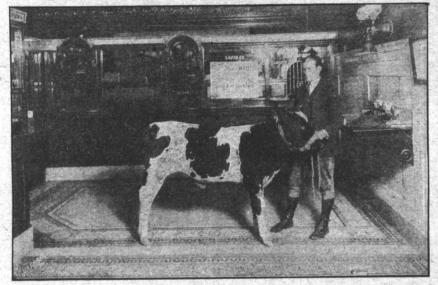
Personally, I rather like John Steele's way of getting into the purebred business. Just thirty years ago he bought four registered Holstein heifers, and has not bought a single female since. Today he has one of the large, good herds of the country.

top of the sale was obtained by Baird Brothers on a yearling son of Cedar Lawn Canary Paul, out of a 1,000pound cow. The top female was a thirty-one-pound cow, which sold for

There were fifteen bulls consigned to this sale, and without exception heading select herds of pure-breds. There was spirited competition for all of these bulls, and contrary to the result in many sales, the bull prices

RENTING DAIRY FARMS.

RENTERS and owners of farms on which dairying is an important enterprise meet problems that are hardly known where only the ordinary crops The female progeny of these four are grown. Buildings and fences beheifers was carefully raised, and bulls come important considerations, and



Typey Young Bull Developed in the Corey J. Spencer Herd, Poses in the Local Bank for the Picture Man. The Use of Pure-bred Sires is One Method of Improving the Financial Status of Cow Owners.

Many of the daughters of these bulls concerning the size, quality, and own-made most excellent A. R. O. records, ership of the herd. The very nature made most excellent A. R. O. records, as John Steele believed thoroughly in giving every cow on his farm a chance to show what she could do.

Steele preferred the practical, cautious methods of the everyday farmer in his breeding operations. His testing work was done under conditions which the average farmer could duplicate. High pressure methods found little favor with him. But he was always alive to improved methods of doing things.

This is shown by the readiness with which he took up silage way back in 1880. He also conducted numerous field experiments. Today, at the age of seventy-five, he is still striving to improve his methods. If he had to do it all over again he probably would do just as he did thirty years ago: start small and grow larger.

milk, so Steele solved the difficulty by farms are rented on crop shares to tenmaking cheddar cheese. His neighbors ants having a few cows and getting all offered to bring their milk also, so be- of the income from them. fore very long he had a cheese factory in full operation. He continued this until the coming of the condensaries made the further operation unprofitable.

HOLSTEINS SELL WELL.

ciation Sale on November 14, for an its character in many months. The ranging for betterments handicap the

of extra good breeding and individual- also the division of land between pasity placed at the head of the herd, ture and feed crops. Questions arise of the business makes it necessary that the landlord take an interest in live stock and the crops and conditions necessary to make it profitable. Vexing problems may develop in connection with the ownership of the cattle, the furnishing of man labor, supervision and assistance by the landlord, machinery and tools, work animals, the division of receipts from swine and poultry, the rental of pasture, and the keeping of accounts.

Another important phase comes up when the tenant leaves the farm—the division of jointly-owned live stock, payment for feed left on the farm, and for winter grain, fall plowing, manure hauling, and improvements made by tenants. There are also discussions of the length of notice given of intention to terminate the lease, the length of When he got started in the dairy the lease period, and the arrangements business there was no good market for that have been found workable when

It was found that most good dairy farms are rented on some sort of share basis and that it is usually the smaller and poorer farms that are rented for cash, but there are some owners, often those living at a distance from their land or those knowing little about farming, who find the cash arrange-SIXTY-FIVE head of Holsteins were ment the best, even though the farms sold at the Waukesha County Assomay be good enough to attract the best tenants. However, the condition of average of \$325. This is by all odds the buildings and fences on many cashthe most successful Holstein sale of rented farms and the difficulty of ar-

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MILK AT TEN CENTS IN CHICAGO.

OVER two hundred grocery and delicatessen stores have announced a price of ten cents a quart on milk. This is a cut of two cents from the former price.

The Milk Cooperative Marketing Company, which is an organization of Illinois, Wisconsin and Michigan dairy farmers, make it possible for these stores to sell at this price, as they will deliver the milk to the stores at a price which will enable them to make a fair profit at ten cents.

It seems that this low price on milk is another indication of the value of cooperation. Undoubtedly the farmers are getting just as good if not a better price for milk than they have had before. But they are eliminating a middleman and are passing on to the consumer part of the saving thereby.

KEEP HEIFERS GROWING.

R ETURNS get our attention. Possibly for this reason the heifer calves are unduly neglected. But this stock should be kept growing normally. With silage and clover or alfalfa hay, one should feed each heifer from two to five pounds of farm-grown grains per day. If no silage is available, feed two pounds of corn daily with all the clover or alfalfa hay the heifers will consume. With silage and no legume hay, a good ration consists of a portion of silage and fodder or mixed hay with a grain mixture consisting of equal parts of corn and linseed meal.

FARMERS USE OLEO.

I N a recent survey made in Jackson county among the patrons of a creamery it is found that fifty per cent of them admitted to the use of oleo on their tables. It is said that one oleo manufacturer admitted to a dairy expert that if it wasn't for the farmer trade the oleo people would go out of business. Thus it seems that many dairy farmers are supporting their strongest competitors.

WATCH THE BULL.

No man trusts a tiger until it is dead. A bull, although he uses an entirely different method, can do just as much damage as any animal in the zoo or in the jungle. He is more vicious and treacherous than most of them, and with such a reputation no man should trust him for a minute, no matter what his record for good behavior has been. "Mean" bulls perhaps have killed fewer men than those considered safe.

ring in his nose may save a tragedy. competing plants into one system, and Better still, keep him in a pen ranged that handling would not be necessary at all. Plans for constructing safe bull pens may be obtained from the Department of Agriculture, Washington, D. C. Every farmer who owns a bull would do well to put up this warning in his barn: "Watch the

NATIONAL MILK PRODUCERS' MEETING.

(Continued from last week). Construction Work in New York. Finding wider markets for milk was the subject of a talk by W. W. Hovey, onions in Texas during the winter.

dairyman on such places. Some land general manager of the Dairymen's League Cooperative Association of Utica, New York. The league association is not only working to improve but there are very few who follow this , the quantity of milk, but increase its sale in various ways. During the war, A copy of a bulletin treating this milk in the New York territory changed from grade C to grade B. Much advertising is being done in the newspapers to promote the sale of milk. Billboard advertising in foreign languages is being done in the foreign settlements of the city. In four years the consumption of milk has increased from 2,000,000 to 3,000,000 quarts.

A bureau of nutrition has been organized. School children are receiving milk. It was found before this campaign started that many city children were sent to school without any breakfast. Records show that the effect of drinking milk on children is phenomenal. Fifty sales agencies have been established for the distribution of dairymen's league products in the east. Sales agencies have also been established in sixty-five foreign countries. Dairymen's league products are now sold in all nations. They are well known in Palestine, and are on sale in the heart of Africa.

Michigan's Program.

The work of the Michigan Milk Producers' Association was described by N. P. Hull, president of the association. In the outset the distributors were told that if they would play fair the producers would play fair. The contract provides that the dealers will take no milk that does not come from the Michigan Milk Producers' Association. The association gets two cents per 100 pounds for selling, and has \$68,000 accumulated besides paying all expenses. A new plant is being built to take care of the surplus. Small receiving plants will be started on the outskirts of the terirtory to manufacture the surplus. The producers and distributors meet at conferences as friends, and after five years of cooperation they are better friends than ever.

The Turner Center System. The New England Milk Producers' Association plan was described by John S. Murdock, attorney for the association. The Turner Center system has been in operation in Maine for many years. It was formerly cooperative but for a long time has been operated by a company that has divided the surplus earnings after paying operation costs and a reasonable profit, among the producers. The company now has twenty-eight plants in the country, and large plants in Boston, Lynn, Lowell and Providence. In 1926 the Turner Center system will be farmer-owned. Five per cent of the milk checks will be used to retire the preferred stock. It does a business of \$4,000,000 a year.

At Plymouth, N. H., is a creamery acquired by farmers, which has not been so successful. Cooperative plants designed to take care of cooperative milk are established in several New England cities. There are thirty-four farmers' cooperative creameries in Vermont, all competing with each other except six which federate in hiring a sales and a purchasing agent.

It is the purpose of the New Eng-A bull led on a staff attached to the land association to organize all these develop them until they control the milk handling situation in New England. Sentiment among the cooperatives is strong for this consolidation into one marketing enterprise.

> THE Michigan Potato Growers' Exchange has named F. L. Granger, of Benton Harbor, as sales manager to succeed R. A. Wellman, who resigned to enter potato selling business with A. B. Large, former manager of the exchange. Mr. Granger formerly sold grapes on the Benton Harbor section during the summer, and potatoes and

What are YOU Going to Do for Christmas?

YOU have friends to remember this Chistmas. Perhaps you do not want to spend much money for g'lts-but want them to have something on Christmas morning that comes from you.

The Michigan Farmer Will Solve Your Xmas Problem

Subscribe to The Michigan Farmer for a year for one or as many of your friends as you want to remember on Christmas. Before Christmas your friends will receive handsome Christmas cards bearing Christmas greetings from you and the information that The Michigan Farmer will be delivered each week for twelve months.



SPECIAL CHRISTMAS OFFER

To help solve your gift problem, we have made a special offer to Michigan Farmer redaers. This offer permits you to send gift subscriptions to your friends and at the same time extend your own subscription.

By sending two yearly subscriptions, \$2.00 accompanying your order, your own subscription will be extended one year from date of present expiration.

Send four yearly subscriptions, \$4.00 accompanying order, and we will extend your own subscription 3 years from date of present expiration.

Six yearly subscriptions sent us, \$6.00 accompanying your order, will date your own subscription 5 years ahead from date of present expiration.

Christmas will soon be here. Make your list up now. Use the coupon below and send in at once. The Xmas gift cards will be mai'ed to each of your friends before Christmas.

COUPON

(cut off here)

(cut off here)

Gentlemen: Farmer with addresses	Inclosed find \$fo your Gift Card to the att	r which send ached list of r	Michigan ames and
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BREEDERS' DIRECTORY

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5 Grand Champions 28 FIRSTS

and other prizes. Such was the remarkable performance of our animals at the 1922 Michigan State Fair. What could be better proof of the unvarying quality of our animals or more representative of the ideal for which we have striven? Our success is the natural culmination of our efforts and our reward for years of careful and costly breeding. Ours is symbolic of the best. Mediocrity is not tolerated.

Our success can also be yours.

is not tolerated.

Our success can also be yours. Our young animals are the finest examples of breeding and will do much to improve your herd. Get the blood of the King of Sires EDGAR OF DALMENY

Into your herd and you will have individuality, distinctions to be successful.

thon and quality.
The services of our Grand Champion Stallion.
GEORGE HENRY

are available.

Your correspondence and inspection are invited. WILDWOOD FARMS ORION, MICHIGAN W. E. SCRIPPS, Prop. SIDNEY SMITH, Supt.

Registered Aberdeen-Angus cattle. Two bulls from eight to eleven months old. One a show bull, large and growthy. Priced reasonable Inquire of F. J. WILBER. Clio. Mich.

FOR SALE, Several registered Aberdeen-various ages. LANG BROS., Davison, Mich.

Registered Guernseys Another crop of calves. Choice bull calves \$75, their breeding and records will please you. J. M. WILLIAMS, No. Adams, Mich.

For Sale Guernsey Herd Bull 3 yr. old. Sire. Anton's May King sold for \$7,000.00. Dam, Bonnie's Bloom 530 bs. B. F. Price \$175. Fall bull calves by above sire. Accredit Herd. GILMORE BROTHERS, Camden, Mich.

Registered Guernsey Bull. Born Nov. 18. '21. Out of Advanced Registry Sire and Dam. An extra good individual, very reasonable price for quick sale. Herd on Federal Accredited List. No.21701. Knapp & Woodworth. R.2, Waterliet, Mich,

GUERNSEYS -REGISTERED BULL Calves. Containing blood of world champions. A. R. co ws. Federal inspected. HICKS' GUERNSEY FARM, Saginaw. W.S. Mich.

Wallinwood Guernseys Young bulls from A. R. cows for sale. F. W. WALLIN, Jenison, Mich.

Guernsey Bull ready for light service. Bred heifer. Yearling heifer. Adv. Reg. breeding. Free from disease. G. A. Wigent, Watervliet, Mich.

For sale Registered Guernsey cows, May Rose Breed-for ing also bull calves \$50 each, Registered A. R. dams. JOHN EBELS, R. 2. Holland, Mich.

WINNWOOD HERD

Registered Holsteins

Ask us about a Real Bull a Maple Crest or an Ormsby.

Rochester, Mich. JOHN H. WINN, Inc.,

The Traverse Herd

We have what you want in BULL CALVES, the large, e 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

Holstein Friesian heifer and bull calves, purebred Fries \$20 up. Splendid individuals and breeding. Write us your equirements. Browncroft Farms, McGraw, N. Y

COLANTHA BULLS

All ages. from high-producing dams. Also a few registered and high-grade Holstein cows at farmers' prices. Pedigrees and prices upon request. A clean herd under Federal supervision. WHITNEY FARMS, Whitney, Mich

A Good Note accepted in payment of finely bred reg of the best, and at prices within reach of all. Write GEO. D. CLARKE. Vassar, Mich.

Yearling Bull, \$100

REGISTERED HOLSTEINS
Young Bulls that will please you in breeding, individuality and price. Some of them are very desirable, for heading pure bred herds. Federally accredited, for heading pure bred herds. Federally accredited, all are dehorned and the best of quality. Must be seld at once your choice one load or all.

For Sale a semi-official daughter of Maple Crest Korn. Hengerveld. Federal tested, also a few granddaughters from I to 3 yr, old. Terms if wanted. M. L. McLaulin, Redford, Mich.

For Sale King Segis Breeding

Nine months old bull, whose seven nearest dams average 27.72. This is the last of my nineteen of this age. The others are all sold.

Grand River Stock Farms Corey J. Spencer, JACKSON, MICHIGAN

I Have Two registered Holstein Bull calves that I will farm out, for period of three years, to responsible farmer or dairyman, who wishes to improve his herd.

A. R. GRAHAM, Flint, Mich

FOR Sale Reg. Holstein-Friesians. Male calves 35 lb stre and 27 lb. dams A. R. O. cows. Heifers bred to 35 lb. stre, from one to a car load. Heavy springers. \$125 and up. FRANK STAFFEN. Howard City, Mich.

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

Registered Jersey Cattle. Some young bulls for sale, ask for pedigree. I would spare a few cows to freshen soon, records kept. Herd accredited. J. L. CARTER, Lake Odessa, Mich

For Sale: Jersey bulls ready for service, cows and heifers due to freshen soon. All cows Register of Merit. Accredited herd. SMITH AND PARKER, R.4, Howell, Mich.

Lillie Farmstead Jerseys For sale, 3 heifers mo. old. Colon C, Lillie, Coopersville, Mich.

Jersey Bull Calves 7 mos. to near yearlings strong in St Lamberts. T. B. tested. Homer, Mich.

Jersey Cattle Young stock for sale. Accredited herd.
F. L. BODIMER, Reese, Mich.

JERSEY Bull ready for service. Federal accredited herd. High production, and show winnings. Choice individual. price low. C.S. Bassett, Kalamazoo, Mich.



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THE BETTER WAY GROW HEREFORD BABY BEEVES
Our Contractors are guaranteed top prices by Detroit
Packing Co. Commission, Yardage, Feed and all other
expenses, except transportation—only; are cut out.
Our plan opens the way to profitable beef-making by
Michigan Farmers, in no other way can as much
money per cow be earned with so, little labor. If
you have no beef-bred cows we have them on hand
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HEREFORD

For Sale at Farmer's prices. '
5 yearling bulls 8 yearling heifers
10 of the above sired by our \$5200 Repeater bull.
We have others not related. This is an opportunity to start in good stock at a moderate price.

ALLEN BROS, 616 So. West St., Kalamaz

Herefords For Sale. Bulls. cow and heifers. Bronson, Mich

SHORTHORNS

that will put weight on your dairy calves—the difference will soon pay for the bull. Now selling good soctoh and Scotch-topped yearlings, reasonably, priced, we guarantee every animal to be a breeder. Federal Test. One hour from Toledo, Ohio, N. Y. C. R. R.

BIDWELL STOCK FARM, Tecumseh, Michigan

Milking Shorthorns priced reasonably. An accredited herd selected for beef and milk. Beland and Beland. Tecumseh, Michigan

FOR SALE

Polled Shorthorn Cows & Heifers in calf and calf by side. Also a few young bulls Herd headed by Victor Sultan and Royal Non we can please you in richly bred cattle with quality at farmers, prices. GEO. E. BURDICK, Mgr. Branch County Farm. Coldwater, Mich.

we are offering two splendid white yearling bulls by Imp. Newton Champion and a few extra good heifers and young cows at very attractive prices For full particulars write to

C. H. PRESCOTT & SON, Herd at Prescott, Mich. Office at Tawas City, Mich.

Central Mich. Shorthorn Breeders' Assn offer for sale both milk and beef breeding, all ages Write M. E. MILLER, Sec'y, Greenville, Mich.

Milking Shorthorns Bull calves for Sale. Also 2 cows ROSEMARY FARMS, Williamston, Mich.

Clayton Unit Shorthorn Breeders' Assn. Scotch, Scotch Top and Milking Shorthorns forsale all ages. W. J. Hinkley, Sec'y, Flushing, Mich.

be sold at once your choice one load or all.
Most all bunches Herefords. Weight 500 lbs. to 1000 lbs. and each bunch even in size, some just fair flesh, account short pasture. Know of light Shorthorn steers 5%c. State number and weight preferred. V. BALDWIN, Eldon, Iowa

HOGS

Every's Berkshires have proven their superiority in 1922. You want the best. Let us help you to get started right. Spring boars priced reasonable.

W. H. Every, Manchester, Mich.

Berkshire gilts, one boar for sale. April farrow A No 1 stock at very low price.
JOHN KERTYS, R. 1. Daggett, Mich.

Duroc-Jerseys

TOPMAST SENSATION
is at his home

The sensational, undefeated pig of 1922. Sired by UNIQUE SENSATION, Junior Champion, National Swine Show, 1921. We are breeding only a limited number of sows to this boar. WE HAVE ONLY A FEW SPRING BOARS LEFT. Prices very reasonable. WRITE IN NOW.

LOEB FARMS

Charlevoix, Michigan "The Home of Grand Champions"

Duros Fall Yearling

and spring boars. Some real herd prospects sired by O. C. K. Col. 2nd. All Col. of Sangamo and Diamond Joe. Priced to selk. Fall pigs either sex. Write for description and prices.

W. C. TAYLOR, Milan, Mich. Wetsview Duroc Bred Sows

all sold. Have two spring boars left at a reasonable price. Will book orders for April & May Pigs.

ALBERT EBERSOLE, Plymouth, Mich Woodlawn Farm Duroc Hogs meet present day require pents length, size and quality. Young stock for

ments, length, size and quality. Young stock for sale at reasonable prices and fully guaranteed. Write your wants. W. E. BARTLEY, Alma, Mich. Oakwood Farm offers choice gilts of Orion Col. breeding bred to Pathfinder Orion for Ans. and Sept. farrow. RUSH BROS., Roméo, Mich.

Duroc Jerseys We have a choice lot of service. Will ship on approval. Satisfaction guaranteed.

F. J. DRODT, R. 1, Monroe, Mich.

Durocs—choice lot spring boars, sired by Great Dur-ation, Brookwater Satisfaction 8th and Greater Orion King. Norris Stock Farm, Casnovia, Mich.

BROOKWATER DUROC JERSEYS Ready for Service Boars

Sired by Panama Special 55th and Big Bone Giant Sensation. BROOKWATER FARM, H. W. Mumford, Owner, Ann Arbor, Michigan J. B. Andrews, Lessor,

Undefeated under year Duroc boar of Michigan and boars for sale. Sensation and Pathinder breeding predominating. Michigana Farm, Pavilion, Mich.

Duroc spring boars, gilts, summer and fall pigs for sale. Reasonable prices and satisfaction guaranteed. Jesse Bliss & Son, Henderson, Mich.

DUROC-JERSEYS Do you want a good Pathfinder boar pig'
E. D. HEYDENBERK, Wayland, Mich

DUROC-JERSEYS Spring Board for sale. Hastings, Mich. DUROCS Spring boars and gilts, Pathfinder breeding. Sturdy individuals. CLARENCE B. CALKINS, Wayland, Mich.

Pleasant View Durocs Spring boars and gilts. Choice prices. W. C. Burlingame and Son, Marshall, Mich.

Durocs all ages, very prolific, big bone, good breeding write for prices, age, etc. Satisfaction or money back, B, E. KIES, Hillsdale, Mich.

BIG TYPE CHESTER WHITES

The prize winner kind from the best prize winner bloodlines. Early developers, ready for market at six months old. I have started more breeders on the road to success than any man living. I want to place one hog in each community to advertise my herd, one nog in each community with for agency and my plan.
G. S. BENJAMIN, R. F. D. 10, Portland, Mich.

Chesters We are sold out of Boars. Choice of spring pigs. For immediateshipment of spring pigs. write WEBER BROS., Royal Oak, Mich., 10 mi. and Ridge Rds., Phone 408.

Big Type Chester Whites. Spring boars and ter, 3rd prize yearling at the 1922 State Fair. LUCIAN HILL, Tekonsha, Mich

CHESTER WHITE BOARS Prize winners, from prize winning stock, for sale at reasonable prices. F. L. Bodimer, Reese, Mich.

Chester Whites We still have some good March boars for sale also fall pigs,

both sexes at right prices.
F. W. ALEXANDER, Vassar, Mich. Chester White Special Two fine herd boar and show prospects sired by Advance Type and Prince Big Bone. JOHN C. WILK. Alma, Mich.

O.I. C's. Breeding stock of all ages. 20 boars, buy and Grand Champion Boar and Sow at Michigan State Fair. Stock cholera immune. Will ship on approal. Come and see my herd. Farm located S. Ed. H. MORRISH. R. 6, Flint, Mich. EARLE R. MORRISH, R. 6, Flint, Mich.

Registered O. I. C. Boars

TO DECREASE SHRINKAGE.

EVERY farmer knows the large shrinkage which often occurs in cattle between the farm and the stock yards. This shrinkage, however, can be reduced by proper feeding previous to the moving of the cattle, and also in the management during that period.

Where cattle have been fattened on grain and grass, it is advisable to place them in a dry lot a day or two before shipping, and feed all the timothy hay they will eat, and at the same time cut heavily on the grain ration.

Cattle fattened in a dry lot on grain and clover or alfalfa hay should be changed to timothy hay at least twenty-four hours before shipment, and their grain ration should be reduced at least fifty per cent. A full grain ration should not be served the animals for at least twelve hours before shipping. Some good cattlemen substitute oats for a portion of the grain ration at this time.

Where the animals are fed on silage, clover or alfalfa hay and some nitrogenous concentrate, it has been found advisable to omit the nitrogenous concentrate for at least a day preceding shipping. Timothy hay should also displace the leguminous hay and the silage should be cut to about one-third the regular amount.

Handle the cattle quietly so that they do not become excited or heated.

DEMAND FOR SHORTHORN BULLS.

THE experience of S. H. Pangborn Sons, of Bad Axe, would indicate that breeders and farmers in the state are out looking for good Shrothorn bulls. Since June 1 they sold bulls to Raymond Kerbyson, Deckerville; Roy Little, Carsonville; Mathew Sproul & Sons, Croswell; John Horst, Akron; R. C. Smith, Oxford; Thos. W. Shine, Bad Axe; R. B. Wheeler, Snover, and two to Palmer Bros., Belding. This makes a total of nine bulls sold in three months.

START PIG SURVEY.

THE United States Department of Agriculture is starting its second semi-annual pig survey, by the distribution of fifty thousand questionaire cards through the rural mail carrier.

Last year the survey covered only seventeen states, but it proved of such value that the entire country will be covered this time. Each rural carrier will receive ten cards or questionaires which he will give out to the pig owners on his route. These cards are in simple form and can be filled out in a few minutes.

The cards will show the number of sows farrowed during the last six months of 1921 and the number farrowed during the first six months of 1922, also the number farrowed or due to be farrowed in the last six months of 1922. They will also indicate the number of sows bred to farrow during the first six months of 1922. The number of hogs which died of hog cholera or other diseases during 1921 and 1922 as well as the number of pigs saved

The department deems this survey valuable as it will enable the farmers to adjust their production to the needs of the market. This is just one of the steps which the department is taking in furnishing the farm producer statistical information which will give him a better knowledge of the future trend of the market, and its probable

Common horse sense is all right in its place, but it would make us believe the world was flat and that the sun revolved around the earth. Judgment based on facts is a better guide.

Veterinary.

CONDUCTED BY DR. W. C. FAIR.

Advice through this column is given free to our subscrib-ers. Letters should state fully the history and symptoms of each case and give, name and address of the writer. Initials only are published. When a reply by mail is requested the service becomes private practice and \$1 must be enclosed.

Nymphomania.—I have a Jersey cow about eight or nine years old; bought her one month before she came fresh. Some four weeks after she freshened, she came in heat, it was too early to breed her. Now she is in heat every third day and remains in heat for two days. She has been served several third day and remains in heat for two days. She has been served several times but fails to get with calf. What can be done to cause her to come in heat only once in three weeks? R. J. W., Ravenna, Mich.—Had you bred her when she first came in heat she might have gotten with calf. She now has disease of the ovaries and this may be formation of cysts (sacks containing liquid), or of solid tumors or degenerations, or, more commonly than all, the disposition of tubercle. She may suffer from tuberculosis affecting the ovaries. Your veterinarian can crush ovarian cysts through the rectum and vagina. After doing this she might perhaps breed. vagina. After perhaps breed.

Diseased Molar Tooth.—We have a five-year-old horse that has a discharge from one nostril, but commercial remindent of the commercial reminden from one nostril, but commercial remedies for colds, distemper and catarrh fail to help him. No ulcerated patches on membrane of nose, and I might add, it has been more than two months since I noticed anything wrong. L. A. W., Hersey, Mich.—If your horse was suffering from simple case of nasal catarrh a mucus discharge would come from both nostrils; however, in this case you must hunt for an exciting cause, such as a diseased molar tooth with suppurating root, the discharge with suppurating root, the discharge dripping into nasal chamber, and dropping out of head. Examine mouth and you will perhaps find the upper fourth grinder tooth ulcerated; if so, have your veterinarian extract it, then the animal will soon recover. Flush nostril with salt water, a tesspoonful to tril with salt water, a teaspoonful to each pint.

each pint.

Infectious Abortion.—I have three cows that have lost their calves, one at the seven-month period, the other two at six and a half months. All three in seemingly good health. Can you tell me what alls them? L. B. S., St. Johns, Mich.—If they have no vaginal discharge, breed them right away, but if they have any discharge, flush vagina, using one part lysol to 100 parts tepid water and treat them daily until well. Most likely they will carry their calves the full gestation period; however, you should clean and disinfect your cow barn and keep it clean. If your cows are of good stock, don't beef them. beef them.

Congested Quarter.—Heifer due to freshen next July, one-quarter of udder and teat are congested and hard. J. F. W., St. Clair, Mich.—Give her a tablespoonful of fluid extract of phytolacca at a dose three times a day and cut down her grain ration. If her bowels are costive, feed roots and salt, her daily. her daily.

Lice.—My cattle are troubled with lice, mostly on their backs. R. C., Capac, Mich.—Apply one part vinegar and ten parts raw linseed oil, occasion-

Robert Garrod, Lawrence, Mich.— Try the yeast treatment. Directions: Drop a cake of fresh compressed yeast into one quart of tepid water, let it stand in warm room for two hours, then inject it into vagina. Apply this treatment daily for one week before cow comes in heat, and always three hours before service. In my practice I usually wash out vagina with soap and water before commencing treatment. A fountain syringe is what is required to apply this treatment. Vaccination (with living cultures) is considered good treatment for these kind

M. K., Alma, Mich.—Is the milk from cow that has aborted fit for use? Yes.

Garget.—Have a cow that will freshen next month which gives clotted milk from one teat. Is there danger of quarter caking? J. E. N., Mt. Bing, Ark.—Apply one part fluid extract of phytolacca and six parts of olive oil twice a day. twice a day.

Diarrhea.—For the past two weeks ny cow has been scouring. What my cow has been scouring. What shall I do? Give her a teaspoon of powdered catechu and a dessertspoonful of ginger in ground oats three times a day.

HOGS

O. I. C. 50 last spring pigs either sex not free, % mile west of Depot, Citizs, Phone.
OTTO B, SOHULZE, Nashville, Mich.

O. I. C. & Chester White Swine strictly big grow large. A few spring pigs either sex. Newman's Stock Farm, R. 4. Marlette, Mich.

O. I. C. & Chester White old, either sex \$10.00. Prominent bloodlines. Shipped on approval. Recorded free. CLARE V. DORMAN, Snover, Mich.

O. I. C's. Spring gilts and service boars for sale. Prices right.
A. J. BARKER & SON. Belmont, Mich.

O.I.C's Spring pigs. Pairs not akin. Also July August, and Sept. pigs. MILO H. PETERSON, Elmhurst Farm, Ionia, Mich. Citz. Phone

Registered O.I.C. April Boars also July OHAS H. STEEL, R. 8, Eaton Rapids, Mich.

O. I. C. Boars and Gilts sired by 1921-1922 G. GEO. M. WELTON & SON. Middleville, Mich. . I. C. 15 large growthy Mar, boars at Farmers' prices.
CLOVERLEAF STOOK FARM, Monroe, Mich.

Registered O. I. C. Boars
H. W. MANN, Dansville, Mich.

Spring Boars Now Ready To S ip H. O. SWARTZ, Schoolcraft, Mich

Walnut Alley, Big Type, Poland Chira, the kind that go, A. D. GREGORY, R. 3, Ionia, Mich.

Lone Maple Farm L. T. P. C. March Boars and gilts ready, Prices reasonable, stock as represented F. R. Davis & Son, R. 3, Belding, Mich. B g Type P.C Spring boars and gilts ready for new homes, also sows and pigs.
CLYDE FISHER, St. Louis, Mich.

LARGE TYPE POLANDCHINAS Boars and gilts for sale from one of the best herds in Mich. Sired by B's Clansman Mich. 1921 Grand Cham-pion. Alsaha, M and W's Orange and Daddy Long Legs 2nd. Give us a visit and look them over if not write to N. F. BORNOR, Parma, Mich.

L. T. P. C.

Choice Gilts \$25 to \$40. Boars \$30. Fall Pigs \$15. HART AND CLINE, Address F. T. HART, St. Louis, Mich.

Big Type P. C. some very choice boars double immune, out 1100 lb. sire and mammoth sows from Iowa's greatest herds. E.J. Mathewson, Burr Oak, Mich.

LARGE TYPE P. C. Largest in Mich. Pig ready to ship, why not order from the herd that has given so many their start in the hog business, the kind that makes good, they have quality as well as size.

W. E. LIVINGSTON, Parma, Mich.

Liberator and Orange Clansman and fall Pigs at bargain Prices. E. R. LEONARD, St. Louis, Mich.

BIG TYPE POLANDS

A few choice boars of March farrow sired by Eman-cipator 2nd. Double treated for choiera, and ready for service. Come over, or write. WESLEY HILE. Ionia, Mich.

L. I. P. C. Spring boars and gilts now being shipped, there's a reason. They talk for themselves. Cali or write M. M. PATRICK. Grand Ledge, Mich.

Large Type Polands. Spring boars and gilts, sired by Michigan Liberator and Big Checkers. Immuned by double treatment. Also fall pigs both sexes. George F. Aldrich. R. 6. Ionia, Michigan

Large Type Poland Chinas Spring boars sired by Foxy Clansman 1922 Grand Champion and by F's Clansman 1920 Grand Champion Mich. State Fair. Also two choice 1921 fall boars. All immune by double treatment. Come and see the or write. A. A. FELDKAMP, Manchester, Mich.

Boars at Half Price From Mich Proneer herd of Big Type Poland Chinas We have been breeding them big for 30 years. Our hogs represent the blood lines of Giant Buster, The Clansman, Liberator, The Yankee, Big Bob, etc. Write for what you want.

JNO. C. BUTLER, Portland, Mich

Big Type Poland China spring boars ready for service weighing over 200 lbs. Sired by Hover's Liberator 1st prize Jr. yearling at Tuscula, Sanilac and Saginaw fairs, Also fall pigs at \$15 each. Shipped on approximation, Akron, Mich.

BIG TYPE Poland Chinas, leading strains ages, and bred sows and gilts. G. A. BAUMGARDNER, R. 2. Middleville, Mich

For Sale Large Type Poland China Boar pige ready for services, at reasonable price SCHAFER BROS. Comstock Park. Mich.

Francisco Farm Poland Chinas

Still have a few of those good young boars ready for service. Also Top Notch fall pigs either sex. Both pigs and prices are right.
P. P. POPE, Mt. Pleasant, Mich.

Large Type P. C. Boars of all ages, at very teed. R. W. MILLS. Saline, Mich.

Hampshire Boars Sons and grandsons of Maple aged boar and grand champion at Mich. State Fair and other state fairs 1922. Get up-to-date breeding. Prices reasonable. Also open and bred gilts and young sows. G. H. DODDS, R. 5. Kenton, Ohio

Choice Boars ready for service. Priced to sell. Also sows and gilts.
C. E. GABNANT, Eaton Rapids, Mich.

Hampshire Spring boars now ready, place JOHN W. SNYDER, R. 4. St. Johns. Mich.

Cheshire Boars May litter. 160 to 170 lbs, not \$20.00. SIM L. VINCENT, Lapeer, Michigan

SHEEP

Kope-Kon Farms

Offers the best in yearling Shropshires of course. Also choice of the best lot of Ram Lambs you will see this year. Follow M 29.

S.L. Wing, Coldwater, Mich.

SHROPSHIRE RAMS Come to the Dan Booher, R. 4, Evart, Mich.

Strong robust one and two yr, old Wool-Mutten Shrep-shire rams priced right. Tell us what you want. Maplewood Stock Farm, Allegan, Mich

For Sale Oxford rams and ewes all ages, guaranteed breeders. Write or call at farm.
Geo. T. Abbott, Palms, Mich., Tel. Deckerville 78-3.

Cotswolds 50 head Rams and Ewes all ages, no better A. M. BORTEL, Britton, Mich. Phone no. 706.

REG. DELAINE RAMS At Farmer Prices. Write or Come. Bronson, Mich.

1400 Breeding Ewes

FOR SALE in lots of 50 or more, black faced, from 1 to 4 yrs old; no broken mouths, in good condition, located 22 miles 8. W. of Detreit on Detreit and Toledo electric and Dixie Highway. Telegraph address, Rockwood Almond B. Chapman, So. Bockwood, Mich.

Reg. Hampshire ewes. Also ram lambs better to sell. W. W. CASLER, Ovid, Mich.

CLASSIFIED ADVERTISING

This classified advertising department is established for the convenience of Michigan farmers. Small advertisements bring best results under classified headings. Try it for want ads and for advertising miscellaneous articles for sale or exchange. Poultry advertising will be run in this department at classified rates, or in display columns at commercial rates.

Rates 8 cents a word, each insertion, on orders for less than four insertions; for four or more consecutive insertions 6 cents a word. Count as a word each abbreviation, initial or number. No display type or illustrations admitted. Remittances must accompany order.

Real estate and live stock advertising have separate departments and are not accepted as classified. Minimum charge, 10 words,

Rates in Effect October 7, 1922

Special Notice
All advertising copy discontinuance orders or change of copy intended for the Classified Department must reach this office tendays in advance of publication date.

MISCELLANEOUS

FOR SALE—Gasolene four cylinder twenty horse power motor, with gas tank and magneto. Mounted on timber frame and fitted with drive shaft and pulley. Used two months to run factory line shaft during coal shortage. Cost \$400 \; \text{\$\text{0}\$}0.\$ Will sell cheap. Address G. M. Hall Lamp Company, Detroit, Mich.

TOBACCO—Select 3-year-old Kentucky leaf. Pay for tobacco and postage when received. 5 lbs. smok-ing \$1.25; 5 lbs. chewing \$1.50. Farmer's Union, Hawesville, Ky.

HOMESPUN TOBACCO. Chewing: 5 pounds, \$1.75: 10 pounds, \$3: 20 pounds, \$5. Smeking: 5 pounds, \$1.25; 10 pounds, \$2; 20 pounds, \$3.50. Send no money, pay when received, Co-operative Growers, Paducah, Kentucky.

NATURAL LEAF TOBACCO. Chewing: 5 pounds, \$1.75; 10 pounds, \$3; 20 pounds, \$5. Smolding: 5 pounds, \$1.25; 10 pounds, \$2. Pay when received, Tobacco Growers' Union, Paducah, Ky.

NATURE BRAND HONEY—Delicious, wholesome Direct from the bee farm. Five pounds \$1.00, post-paid. Elmer Luebeck, Knox, Indiana.

WANTED to buy horseradish in large quantities. State price in first letter. Joe Minarits, 8927 Keller St., Detroit, Mich.

POULTRY

ROSE AND SINGLE COMB R. I. Reds. At Indiana State Fair, Sept. 4-9, 1922, we had 7 blue ribbon win-ners, 9 seconds, 2 thirds and 2 fifths. Stock for sale reasonable. F,A.Langohr & Son, Columbia City, Ind.

RHODE ISLAND REDS, R. C. Large funcy cockerels and pullets at \$3 each, Burt Sisson, Imlay City, Mich.

SUPERIOR Ringlet Barred Rock Cockerels, early hatched, extra fine. Prices reasonable. J. L. Wyndham, Tiffin, Ohio.

PURE BRED 'ammoth Bronze Turkeys. Exceptionally large, vigorous birds, both sexes. Mrs. Ralph Sherk, Caledonia, Mich.

BABY CHICKS. Save \$3 to \$10 per 100 by placing order now. Pullets lay at 4 months age. Write for free catalog. D. T. Farrow Chickeries. Successors Far-row-Hirsh Company, Peoria, Illinois.

BUFF ORPINGTONS, Barred Rocks, White Leghorns Guineas. Right. Write Fenner Bailey, Montgomery Mich.

PURE BRED light pencil-neck brahma cockerels; early hatched; extra fine, Mrs. Will Raymond, Bailey, Mich.

LIGHT Brahma Cockerels. Fine big utility birds \$3.50, William Adams, R. F. D. 5, Plymonth, Mich.

FOR SALE Fine Pure bred White Leghorn cockerels for breeding, \$5 each. J. J. Firestone, Allegan, Mich.

ORPINGTON'S White and Black Cockerels and Pullets, Howard Luther, Fairgrove, Mich.

PURE bred Mammoth Bronze Turkeys, Champion strain, large and vigorous; copper bronze color, Mrs. B. Smatts, R. 1, East Jordan, Michigan.

GIANT Bronze Turkeys, pure bred, large type; toms \$8.00, hens \$6.00, E. J. Love, Bloomingdale, Michigan, R. 1. NARRAGANSETT TURKEYS. Toms \$10 up. hens \$8. Get your order in early while choice is good. Ernest Clement, Ionia, Mich.

GIANT BRONZE TURKEYS. Vigorous purebted stock. Best strains, large type, fine coloring. Unre-lated stock. Write Mrs. Perry Stebbins, Saranac, Mich,

200 GIANT S.C. Black Minorca cockerels none better \$2.25 each. Mike Schaefer, R. 1, Essexville, Mich

PURE BRED Mammoth Bronze Toms \$10. Mrs Irving Charlton, R. 7, Hastings, Mich.

TURKEYS, Mammoth Bronze Beauties. Mrs. Eugene Ramsdell, R. 1, Hanover, Mich.

PURE Bred Mammoth Bronze Turkeys. Write me. Johnson's Turkey Farm, R. 1. Six Lakes, Mich.

PEAFOWLS, Pheasants, Bantams, Pigeons, Guinea Pigs. John Hass, Bettendorf, Iowa.

Write Your Advertisement Here

THE MICHIGAN FARMER

1632 Lafayette Boulevard

Detroit, Mich.

Rate: 8 cents a word on single insertion; 6 cents a word if ordered 4 or more consecutive issues. Count initial or abreviations as words

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ne	Route
	State

FILL THIS, PLEASE

our Count of AdWords	No. Times to Run
mount Enclosed	Classification



GRAIN QUOTATIONS

Tuesday, November 28.

Wheat.

Detroit.—No. 2 red \$1.33\frac{1}{2}; No. 2 mixed \$1.31\frac{1}{2}; No. 2 white \$1.31\frac{1}{2}.

Chicago.—No. 2 red at \$1.28; No. 2 hard \$1.18\frac{3}{4}(2).19; December \$1.17\frac{7}{8}.

Toledo.—Cash \$1.34.

Corn.
Detroit.—Old, Cash No. 2, 78c; No. 3 yellow 77c; new, Cash No. 2, 76c; No. 3, 75c.
Chicago.—No. 2 mixed 72¼@73c; No. 2 yellow 72½@72¾c.

Oats. Detroit.—Cash No. 2 white 481/2c;

No. 3, 47c. Chicago.—No. 2 white 4434 @ 451/2c; No. 3 white 43@45c.

Beans.

Detroit.—Immediate and prompt shipment \$6.75.

New York.—Choice pea at \$7.75@8;

New York.—Choice per red kidney \$8@8.25.
Chicago.—Michigan choice handpicked \$8.50; red kidneys \$9.50.

Buckwheat.

Clean milling grain \$2.25 per cwt.

Detroit.—Cash No. 2, 90½c. Chicago.—85c.
Toledo.—Cash 88c.

Seeds. Detroit.—Prime red clover cash at \$12.75; March \$13; alsike \$10.75; timothy \$3.40.

Toledo.—Prime red clover cash at \$13.05; alsike \$10.60; timothy \$3.42.

Hay Detroit.—No. 1 timothy \$17@17.50; standard \$16.50; light mixed \$16.50@17; No. 2 timothy \$15@16; No. 1 clover \$15@15.50; rye straw at \$11.50@12; wheat and oat straw \$11@11.50 per ton in carlots.

Feeds.

Bran \$32@33; standard middlings at \$32; fine do \$34; cracked corn 35.50; coarse cornmeal \$32.50@33; chop at \$28.50 per ton in 100-lb sacks.

Fruit.

Apples, Jonathans \$5@5.50 per bbl; Wageners at \$4@4.25; Greenings \$5@5.50 per bbl; Kings \$5; Northern Spies \$4@4.50; Baldwins \$4@4.50; cranberries, eastern boxes \$7@7.50; late reds \$6.25@6.50.

WHEAT

The advance in the wheat market which has progressed irregularly for five weeks has been checked in the last few days. Although milling de-mand in the northwest continues brisk, at southwestern points it has subsided noticeably. Foreigners are absorbing wheat quietly right along, especially Manitobas, with wheat for immediate shipment at a sharp premium in spite of the enormous Canadian movement. Italy has bought durum and it has advanced sharply in the last two weeks. Italy needs about 72,000,000 bushels in the next eight months. Germany remains the leading buyer of wheat and

CORN

The west from Colorado to the coast, the southwest and the south have continued to buy freely in the corn belt, outbidding Chicago in Iowa and Illinois as they have done for several weeks, but eastern demand has tapered off. Export buying has been negligible, although it now shows signs of revival. Shortage of feed in the area affected by drouth, and the unusual number of cattle to be winterfed in Nebraska and adjacent territory together with the record number of lambs in Colorado feedlots are some of the factors underlying the situation. Freight rate reductions to the coast and in Mississippi barge lines have helped sales.

OATS

Although primary receipts of oats are above the average for this time of year, it is necessary to draw upon the visible supply right along, showing that the rate of disappearance is above

SEEDS

About fifty per cent of the red clover seed and sixty-five per cent of the alsike to be sold by growers had left their hands by November 1, according to a recent survey by the department

year with seedsmen anxious to buy. Producers now show a disposition to

FEEDS

The feed market is unsettled, with price changes small, but advances seem to predominate. Cold weather has caused another spurt in demand but heavier offerings, especially of wheat feeds, have largely offset it. Production, particularly of corn feeds, is rather heavy.

18c; geese 18c; turkeys 35c.

Detroit.—Eggs, fresh candled and graded 50@53c; storage 25½@29½c.

Live poultry, heavy springers at 20c; heavy hens 22c; light hens 14c; roost-turkeys 40c.

BUTTER

of agriculture. The movement has expanded yet this fall in proportion to been at about the same rate as a year the reported increase in production, ago. Prices are materially higher this and with holiday demand at hand, the

chicago.—Eggs, checks at 20@21c; fresh firsts 45@47½c; ordinary firsts 35@40c. Live poultry, hens at 18c; springers 17c; roosters 12c; ducks at 18c; geese 18c; turkeys 35c.

Detroit.—Eggs, fresh candled and graded 50@53c; storage 25½@29½c.

Live poultry, heavy springers at 20c.

Small advances in hay prices occurred last week. Receipts and country loadings are light in spite of an easier car situation and local demand is fairly good.

Current receipts of butter at the leading markets in the last two weeks dropped to the lowest level in a year. Although the market is encountering more opposition right along, it advanced into the lowest level in a year. curred last week. Receipts and country loadings are light in spite of an easier car situation and local demand is fairly good.

POULTRY AND EGGS

Sudden expansion in the receipts of fresh eggs caused a sharp setback in the market last week. It is probable that consumption has been curtailed also. No sustained increase in the supply is probable, however, for another month so that the market may recover the loss, although the fact that prices are near the top should be recognized. Receipts of poultry have not dropped to the lowest level in a year. Although the market is encountering more opposition right along, it advanced into new high ground with gains ranging from two to three cents per pound. Production is decreasing as shown by reports to the American Creamery Butter Manufacturers' Association and the decline in receipts of about twenty-five per cent compared with two weeks ago has more than offset the falling off in consumptive Prices on 92-score fresh butter were as follows: Chicago 53c; New York prices are near the top should be recognized. Receipts of poultry have not Detroit for 44@46c.

Live Stock Market Service

Wednesday, November 29.

active; all others slow.

Common cows
Canners
Choice bulls
Bologna bulls 2.00@ 2.75 4.50@ 5.00 3.50@ 4.50 3.00@ 3.75 5.50@ 6.50 Stock bulls

 Feeders
 5.50@ 6.50

 Stockers
 4.00@ 5.75

 Milkers and springers
 \$ 40@75.00

 Veal Calves.

Receipts 419. Market strong to 50c higher.

Sheep and Lambs.

Roughs 8.60@ 8.75 4.50@ 5.00

 Pigs and lights
 8.60@ 8.75

 Stags
 4.50@ 5.00

 Heavies
 8.00@ 8.50

CHICAGO

Hogs.

Estimated receipts today are 24,000; holdover 9,601. Market is 10c higher. Bulk of sales \$8.10@8.35; tops \$8.50; heavy 250 lbs up \$8.20@8.40; medium 200 to 250 lbs \$8.25@8.40; light 150 to 200 lbs \$8.25@8.50; heavy packing save \$75.0 lbs at \$75.0 lbs at \$8.25@8.50; heavy packing save \$ sows 250 lbs up \$7.60@8; packing sows 200 lbs up \$7.35@7.75; pigs 130 lbs down \$8.30@8.50

Cattle.

Estimated receipts today are 11,000.
Market active, all killing classes are strong to unevenly higher; beef steers strong to unevenly higher; beef steers strong to 25c higher. Beef steers, medium and heavy weight 1100 lbs up \$12@13.60; do medium and good \$7.25@12; do common at \$5.50@7.25; light weight 1100 lbs down \$9.85@12.90; do common and medium \$5@9.65; butcher cattle heifers \$4.50@10.75; cows at \$3.75@8; bulls bologna and beef at \$3.60@6.60; canners and cutters cows and heifers at \$2.75@3.75; do canner steers \$3@3.55; veal calves light and handyweight \$8.75@9.50; feeder steers

mon \$9.25@13; spring lambs \$9.25@12.50; ewes \$4.75@7.75; ewes cull and common \$2.55@5; yearling wethers at \$12.25@14.

BUFFALO

Cattle.

Cattle.

Receipts fifteen cars. Market is slow. Choice to prime shipping steers 1,400 lbs and up \$11@11.75; good to choice shipping steers \$9.50@10.50; heavy grass steers, good quality \$8@8.50; medium to good at \$7@8; fat, coarse \$6.50@7.50; light native yearlings, fancy quality \$11@11.50; medium to good \$7.50@8.50; best handy steers \$7.50@8; plain at \$6.50@7.50; handy steers and heifers at \$6.25@7; western heifers at \$5.50@6.50; light Michigan butchering heifers \$5.50@6; best fat cows at \$5.50@6; medium to good \$4.25@5; cutters at \$2.25@2.75; canners good weight \$1.75@2.15; common to old rims at \$1.25@1.75; best heavy bulls \$4.75@5.50; heavy bologna bulls \$4.75; common bulls at \$3@3.50; best feeders 700 to 800 lbs \$6.50@7.25; medium feeders at \$6@6.50; stockers good \$5.50@6; light common \$4@5; milkers and springers \$60@100; common and medium \$35@50.

Calves, receipts 15 cars; tops \$12.50. common and medium \$35@50. Calves, receipts 15 cars; tops \$12.50.

Hogs.

Receipts 40 cars. Market is lower. Medium and heavy \$8.80@8.85; yorkers and pigs \$8.90@9.

Sheep and Lambs.
Receipts 12 cars. Market is slow.
Top lambs \$15.25@15.40; yearlings at \$9@12; wethers \$8@8.50; ewes at \$6

@7.25.

Although shipments of potatoes from producing sections have fallen off sharply in the last four weeks, arrivsharply in the last four weeks, arrivals at the principal consuming markets continue heavy, although there has been a moderate falling off in the last ten days. Prices are beginning to recover in midwestern cities and at northern shipping points although weakness prevails in the east. Further recovery seems probable in the next sixty days. Northern whites are quoted at 75c@\$1.25 in city markets, and 65@75c f. o. b. shipping points.

POTATOES

WOOL

The London wool auction opened last week with merinos quoted five per cent lower, fine cross-breds a shade higher and coarse and medium crossbreds five to ten per cent higher than at the October sale. Australian markets also show strength. Prices in this country were affected by the trend abroad although country stocks are practically all cleaned up except Texas fall-shorn, which have sold as high as forty-seven cents or about twice as forty-seven cents, or about twice as high as last year.

APPLES

Cold storage holdings of barreled apples on November 1 comprised 4, 012,000 barrels, the largest number ever reported on that date. Boxed apple holdings were 4,094,000 boxes, as compared with 5,464,000 last year and a five-year average of 3,463,000 boxes. With boxed apples reduced to their equivalent in barrels, total holdings were 5,377,000 barrels, the largest for that date on record. The five-year average is 9,938,000 barrels. Receipts of apples remain liberal with prices practically unchanged for the week. Baldwins are quoted at \$3.50@4.50 in midwestern cities, with Greenings at \$3.75 @4.50. @ 4.50.

BEANS

The bean market has been more stable recently with choice hand-picked whites holding close to \$6.90 per 100 pounds f. o. b. Michigan shipping points. Growers are not pressing the market and the period of urgent selling is over while demand shows no special snap, although the weather is favorable for bean consumption. The approach of tax assessment date in approach of tax assessment date in California caused a little pressure from that section for a while.

DETROIT CITY MARKET

Potatoes, pumpkins, squash and on-ions are still slack on the market. The ions are still slack on the market. The demand, however, for apples has become more active since the big orchard hauling is over. The vegetable market generally is easy. Apples sell for 50c@\$2.50 per bushel; celery 30@50c per dozen; cabbage 30@75c per bushel; eggs 75@80c; horseradish \$2@4 per bushel; dry onions 75c@\$1.50 per bushel; potatoes 55@65c; popcorn \$1.25@1.50 per bushel; potatoes 55@65c; popcorn \$1.25@1.50 per bushel; potatoes 55@65c; popcorn \$1.25@1.50 per bushel; poultry 23@25c per pound;

GRAND RAPIDS

Improvements in the refrigerator car situation is aiding the movement of potatoes. Somewhat better market prospects are reported. Farmers here prospects are reported. Farmers here are receiving 35@40c per bushel. Dry onions bring 50@60c; apples, Greenings 70@85c; Baldwins 50@75c; Jonathans 50c@\$1.75; Northers Spies \$1 @1.50; No. 1 dairy butter 35@40c; eggs 55@56c; white beans \$6@6.25; red kidney beans \$6@6.75; No. 1 red wheat \$1.22; rye 75c; barley 78c; oats 50c; corn, No. 2 yellow 80c.

Do Not Forget to Visit the First FAT STOCK SH

at Detroit Stock Yards, Dec. 11-12-13, 1922

Special invitation is extended to farmers and feeders of lives tock. Come and see what the consuming public demands in lives tock.

ADMISSION FREE

THE BUSINESS OUTLOOK.

GRAIN prices reached the highest held the gain fairly well, butter reached the best figure since early in 1921, lamb prices remained but little below \$15 at Chicago, the wool market was



It takes a rattling good cigar to keep selling for 27 years and grow in popularity all thetime-

HEMMETER'S CIGARS

Have more friends today than ever because they are strictly hand made from good old ripe tobacco without blending or flavoring.

The best smoke in the world for the price-Ask your Dealer

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SHIP YOUR DRESSED CALVES TO DETROIT BEEF CO.

In business at the same location and under the same management for thirty-three years. Our capital and surplus of \$250,000.00 in-sures financial reliability and sure returns. We deal honestly with every shipper and handle his goods as though they were our own.

own.

Write us for instructions how to dress calves and prepare them for shipment. It is very simple. Quotations and shipping tags furnshed on application.





Fancy Large Dressed Herring 4c per lb. Remit with order. Box Charges Extra, 35c. CONSUMERS' FISH CO., Green Bay, Wis.

CANARIES & PARROTS A singing Canary of a talk Christmasgift. Write for my interesting prices. MRS. HARVEY HAYNES, Coldwater, Mich

POULTRY

Bred-To-Lay White Wyandottes Special sale of cockerels from 200 egg hens for \$5.00 if taken early. EVERGREEN POULTRY FARM. Blanding & Sons. Greenville, Mich.

Michigan's Best Giant Bronze Turkeys Healthy range-bred birds from world's best strains. Unrelated stock furnished. N. Evalyn Ramsdell, Ionia, Mich.

buoyant, hogs had a smart recovery and thus far have held above the money losing level, all finished cattle arlevel of the season last week and riving are showing excellent returns, cotton after a moderate setback started upward again, the hay market began to climb out of the rut, and potatoes, which have been in the worst condition of any important farm product this fall, began to show real improvement.

The car shortage is being relieved. The latest statistics, which are for nearly two weeks ago, show a small decline in the number of unfilled orders for cars and a falling off of about six per cent in freight car loadings from the peak of the year.

General business and industry are prospering. Steel mills are operating at about eighty per cent of capacity and consumption is keeping pace, auto output for November is about the same as in October when a record for that month was attained, building activities are well sustained, and textile mills are using up raw material about as fast as they ever do. In these lines further improvement is not to be expected but any reaction may be offset by advances in other directions.

Foreign conditions are not growing worse, although there is little betterment to record. However, sterling exchange is at nearly the highest level of the year, francs are sixteen per cent higher than two weeks ago, and Italian lira are near the best level since June.

Proposed government aid to extend the markets for farm products is receiving much attention. Some benefit may be hoped for although it will be slow in arriving. Facilitation of export trade through extending the powers of the War Finance Corporation to permit discounting drafts probably on a ninety-day basis on sales abroad when endorsed by a reliable foreign importer and the government of the foreign country, seems to be a most feasible plan.

M. A. C. AT THE INTERNATIONAL.

E IGHTY head of live stock will be sent by M. A. C. to the International Live Stock Exposition, to be held at Chicago on December 2-9. They will comprise the largest entry ever made by the college. Sheep and swine will be exhibited, as well as the steers that won high honors last year.

The college will also be represented at the International Hay and Grain Show, held simultaneously, by a special educational exhibit, featuring the caption, "Michigan Cheapens Production," and showing work with alfalfa and other crops raised in the state.

MR. OVEN, NOT MR. OWEN.

In the article entitled, "Clinton Farmer Has Model Hog House," pub lished November 18, the owner was referred to as Mr. Owen, when it should have been Mr. Oven. This we regret very much. Mr. H. C. Oven is a graduate of the Michigan Agricultural College, and is doing real constructive work in the agricultural circles of central Michigan. He deserves all the credit.

FARM MEETINGS.

ciation, Muskegon, December 6-8. State Grange meeting, Kalamazoo, December 12-15.
National Farmers' Exposition, De

cember 7-15, Toledo, Ohio.

White Wyandotte Cockerels Finest Michigan Horticultural Society, Howard Grand Rapids, Mich., December 5-7. Howard Grand Rapids, Mich., December 5-7. Howard Grand Rapids, December 6-8. Michigan Potato Growres' Association, Grand Rapids, December 6-8. American Farm Bureau Federation, Chicago, December 11-14.

Society, basement, barn, silo, granary, milk house, chicken health causes quick saiet is head stock, milking machine, gasoline ensuring all equipment included; small payment down, all equipment included; small payment down, can be supported by the complex of the comp

AMERICA'S LEADING FUR HOUSE Established 1868-our plant has grown to cover two city blocks-the greatest plant in the world devoted to the handling of furs. your Raw Furs to Traugott Schmidt a Sonsica's Leading fur House. Why take chances when you
hip to this big, strong, dependable fur house with a recor
f century of square dealing? For 69 years we have bee
fers best friend. Our reputation for prompt remittances of over \$1,000,000 is your guarantee of satisfactions. SUCCESSFUL TRAPPING **Get More Money** Our enormous foreign market with our own direct branches enables us to pay you MORE CASH. Ship to us for TOP PRICES. Fair, liberal assortment always by expert graders assures you big returns, Remember—nothing is deducted—we pay all shipping expense—charge no commission and send your money same day furs are received. 515 TRAUGOTT Detroit, Mich. Valuable Book WOOL Write for booklet. Tells how to get most money for furs. Also price list, market report and shipping tags all sent free. Write at once—NOW. TRAUGOTT SCHMIDT & SONS. 515 Monroe Ave., Detroit, Mich.

A Faster Log Saw, The new 1923 Model OTTAWA is the World's fastest Log Saw—350 strokes a minute! Better built, lighter, easier to move. Burns kerosens. Less than Wholesale Prices now in effect. OTTAWA

"Wood Sawing Ency-clopedia," illustrated; also Big Special Offer.

A BETTER COMMISSION SERVICE

If you appreciate honest returns, quick service, and courteous treatment you will consign your poultry, dressed yeal and hogs and eggs to Gunsberg Packing Co., Inc. 2460 Riopelle Street, Detroit, Mich. Write for tags and quotations.

HAY AND PRODUCE SHIPPERS, Ship to E. L.

Mention The Michigan Farmer When Writing Advertisers

The Real Estate Market Place

RATES For Real Estate Advertising On This Page

35c a line per issue on 4 time orders 40c a line per issue on 1 time orders

Special discount given when used in combination with 7 other Capper Publications. Write for special real estate advertising rates on these papers which reach over a million and a half families.

86 Acres, 3 Horses, 6 Cattle

186 Acres, 3 Horses, 6 Cattle
187 Pigs, 60 Hens,
2 turkeys, gobbler, ducks, geese Kentucky foxhound,
100 bu. potatoes, 9 tons hay, ensilage in silo, corn in
crib, 100 bu. oats, straw and long list farm tools.
Everything in readmess for you and your family to
step right in and start with a good income. In the
eart of prosperous farming section, on improved
road, 5 railroad towns handy; 65 acres excellent clay
loam, with some sand and gravel loam; 15 acres
wood and pasture, wire fenced, stream watered;
2-story 8-room house, painted; fine cellar; mail delivered; milk and cream collected; 50-foot barn, dies 12
head; poultry house, granary, hog house, tool shed,
cattle shed. Owner's failing health forces him to
retire and he særifices at \$5600; to quick buyer
\$2000 secures everything; balance very easy terms;
quick possession. Milton Hopkins, Coopersville,

Aged Owner Must Sell 85 Acres—Fully Equipped

Near fine R. R. town, close State Capital; all advantages; productive farms this section making Michigan agriculturally famous; successful farmers all around; splendid markets, easy transportation over improved roads; you should make money from 70 acres loamy tillage; pasture, woodlot, 100 apples, pears, cherries, peaches, berries, nuts; excellent 2-story 7-room house, overlooking lake bordering property; barn, granary It taken now, only \$7.500; cows, heifer, 3 horses, brood sows, full implements, tools, season's crops included, less than half needed Don's delay. Geo. B, Ros. 326 M. A. C. Ave., East Lansing, Mich.

\$900 Gets So. Mich. Farm Stock, Equipment, Crops

Stock, Equipment, Crops
Your future will be your own on this fertile "40":
close depot; stores, schools, churches; convenient big
city markets; 30 acres productive tillage, pasture,
wood lot; woven wire fences; appies, peaches, grapes,
berries, nuts; good 7-room house, barn, granary,
poultry house, garage Owner called away, \$4.000
gets it, horses, cows, poultry, full implements, tools,
crops included, only \$900 needed. Details page 62,
Big Illus. Catalog Selected Farms—160 pages, Copy
free, Strout Farm Agency, \$14-BC, Ford Bldg.,
Detroit, Mich.

Michigan State Association of Farmers' Clubs, Lansing, December 5-6.
International Live Stock Exposition and Grain Show, at Stock Yards, Chicago, Ill., December 2-9.
Michigan State Apple and Potato Show, Grand Rapids, December 5-8.
National Silver Fox Breeders' Association, Muskegon, December 6-8.

Michigan State Apple and Potato Show, Grand Rapids, December 5-8.
National Silver Fox Breeders' Association, Muskegon, December 6-8. A Beautiful Dairy Farm for sale of Farms Wanted Give full description and cares of Farms Wanted cash price. Quick sales.

New York Farm

Level, rich, leamy soil, fine spring watered pasture, one mile to schools, churches, easy drive to city of 26,000, wood for home use; 8-room house, basement, barn, silo, granary, milk house, ehicken house, other outbuildings; ill health causes quick sale; 18 head stock, milking machine, gasoline engine, all equipment included; small payment down, easy terms. Richard Hughes, Mexico, New York.

Municipal Lands For Sale By The District."

No agents, no memonission: interested only in getting home-builders on the project. Longest growing season in the northwest. Gardens and fruits thrive; schools, highways and railroads the best. Junction Snake and Columbia rivers. Write for terms and folder. Address Burbank Irrigation District No. 4. Burbank, Washington.

For Sale 80 acres clay loam, some fine timber, and easy terms. 40 acres, \$300 to \$500 down, 10 acres close in, \$6500, \$500 down, 10 acres close in, fine house, water, lights, furnace, small basement barn, \$500 down and \$100 per year. Any size farm; unimproved land at \$12 per acre, some timber land, all kinds of trades. Write, Strang Real Estate Agency, Lakeview, Mich.

SOUTHEAST MISSOURI-

"WHERE EVERYTHING GROWS"
Mild climate.long growing season Alluvial black soil—
Ideal livestock country. All kinds of feed and cotton seed meal produced at home. Southeast Missouri Agricultural Bureau. Dept. H. Union Sta., St. Louis. Mo.

FOR SALE 160 acres clay loam soil, \$20 per acre, gravel road No. M. 78. EDW. THEOBALD, Riverside Farm, Roscommon, Mich.

Must Sell At Once to settle an estate, buildings. Alfalfa and fall grains. Further particulars, write Box 443, Ithaca, Mich.

80 ACRES fertile soil with good buildings. Five acres timber. Two miles from town. Liberal terms. OTTO WIRTH, Evart, Mich.

Poor Man's Chance \$6 down, \$5 months productive land near town. Some timber. Price \$225-Other bargains. Box 425-Z. Carthage, Mo.

I Have Cash Buyers for Salable farms. Will deal with owners only. Give description and eash price, MORRIS M. PERKINS, Columbia, Mo.

Leaderbrand Sales Agency. B-40, Cimarron, Kansas

If you want to buy, sell or exchange property, write Jerome Probst, Ann Arbor Mich.

We Have Cash Buyers for farms at real bargain prices.
CENTRAL LAND BUREAU, New Franklin, Mo.

Want to hear from party having farm for sale.

JOHN J. BLACK, Capper St., Chippewa Falls, Wis.

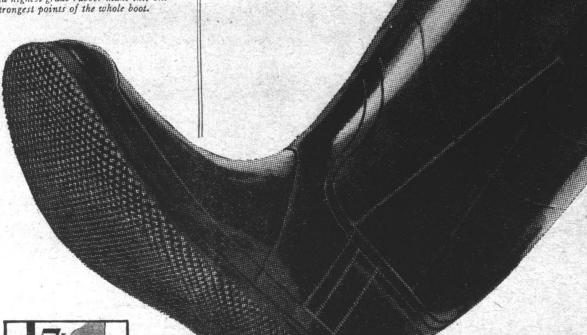
I Want Farms for eash buyers. Describe and state price. R. A. McNown, 324 Wilkinson Bldg., Omaha, Neb.

Improved farm 80 acres for sale or exchange on reasonable terms.
G. F.INEWBERRY, Owner, Lapeer, Mich.

Wanted To hear from owner of land for sale



BACK OF THE HEEL—Eleven layers of heavy duck and highest grade rubber make this one of the strongest points of the whole boot.



THE ANKLE—Here's where so many boots sag and crack. The "U. S." Boot has an extra "collar" that runs all the way round the leg, and on top of that is vulcanized a heavy side-stay.



Extra heavy flange sole

THE SOLB—A thick, single layer of the finest, toughest high-grade rubber. Its flange shape means extra protection and wear. A rugged outside foxing unites the sole and the upper into one solid piece.



THE INSTEP—A boot has no lacing in front, like a shoe, to give as you walk. Every mile you go, the rubber bends and buckles 900 times. We've put a series of graduated reinforcing layers into the instep, combining unusual flexibility with surprising strength.

Rugged strength at the 4 vital points

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SOLE, ankle, instep, heel—it's at one of these 4 places boots get their hardest strain.

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You'll find every type of rubber footwear in the big U. S. line. There's the U. S. Walrus, the famous all-rubber overshoe—the U. S. lace Bootee, a rubber workshoe for spring and fall— U. S. Arctics and Rubbers—all styles and sizes for the whole family. Look for the "U. S." trademark—the honor mark of the oldest and largest rubber organization in the world.

United States Rubber Company

Ask for "U.S." Boots

