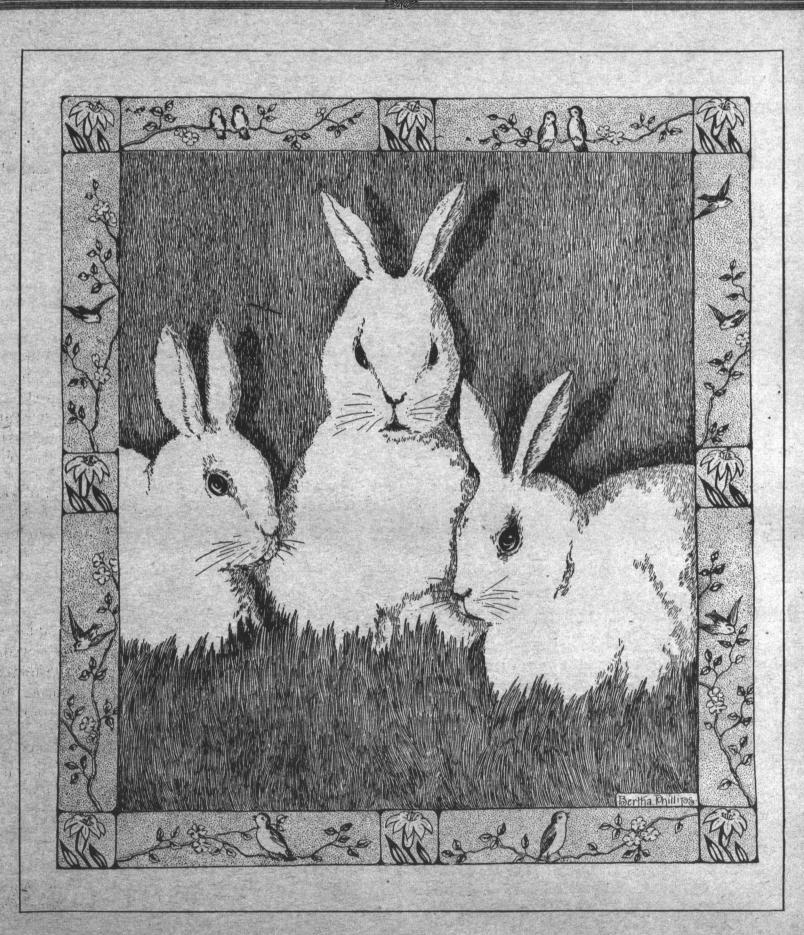


Vol. CXLVIII No. 16

DETROIT, MICH., SATURDAY, APRIL 16, 1927

Whole No. 4755





Rural electrification -a fact on more than 260,000 farms

I investigation carried on in twenty states, electric light and power companies are now building rural lines as fast as circumstances will permit.

On 260,000 farms rural electric service is in successful operation today.

The same force which has done so much for industry will soon be available to an increasing number of farms. The resources and experience of more than forty years of successful city service are back of this movement to bring the farmer the greatest practical help he has ever had.

With the desire to make full cooperation.

△S the result of cooperative use of all the benefits of electric service, and with the development of new equipment, rural electrification will open a new era on the farm.

> Rural lines cannot be built everywhere at once, but the light and power companies are ready to extend service to groups of farmers, which together, can use sufficient power to justify the building and maintaining of rural lines.

> Rural electrification can come quickly-where farmers and the light and power companies work together for the same good end. Ask your power company for information and

The Committee on Relation of Electricity to Agriculture is composed of economists and engineers representing the U.S. Departments of Agriculture, Commerce and the Interior, American Farm Bureau Federation, National Grange, American Society of Agricultural Engineers, Individual Plant Manufacturers, General Federation of Women's Clubs, American Home Economics Association, National Association of Farm Equipment Manufacturers, and the National Electric Light Association.

NATIONAL ELECTRIC LIGHT ASSOCIATION

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With Cars who can devote full time to saleswork. Salary and expenses paid weekly to full time men. For complete information address

The Michigan Farmer, Desk C, Detroit, Michigan of the bureau of animal industry.

Tie Your Bunch Stuff Automatically!

Celery Kohlrabi Carrots Turnips Rhubarb Cabbage Plants

Asparagus Parsley Radish Flowers

Write Dept. T L

What a money-saver, profit-maker the FELINS Tying Machine is for market gardeners, nurserymen, florists—every grower who bunches his produce. Adjusts itself automatically to size of bundles. Many other FELINS features. Guaranteed. This season-

SAVE 3 MEN'S WAGES

FELINS TYING MACHINE CO. 1194-96 FOURTEENTH ST.,

AMERICAN APPLES SENT ABROAD.

HE big apple crop in the United States last year is held responsible for an increase of \$11,000,000 in the value of exports of fresh fruit from this country over the 1925 crop exports. The value of boxed apple exports in 1926 was \$15,431,357, as compared with \$12,787,495 in 1925, while shipments of apples in barrels increased to \$15,042,669 from the 1925 total of \$8,275,589. The exports of all fresh fruits from the United States during 1926 amounted to \$53,000,000, compared with \$24,000,000 in 1922.

SAY COCOA CAKE HARMFUL TO STOCK.

RECENT bulletin from the U.S. Department of Agriculture reports that tests on the feeding of cocoa cake show that it depresses the milk flow of dairy cattle. Caution should be observed in feeding cocoa product to animals, especially to non-ruminants. The alkaloids of the shells are said to have been responsible for the death of a number of animals fed on this product.

INCREASE LABOR ALLOWANCE ON SWEET CORN.

IN the preliminary arrangement governing the distribution of the ten million dollars in the corn borer cleanup, one dollar per acre was allowed in the clean-up of the fields where sweet corn had been grown. This amount has been since raised to two dollars per acre, the same as for field corn.

According to one student of agricultural history, it has taken 3,000 years to develop our present idea of crop rotation. Now what shall we do next?

Uncle Pete reflects, and then remarks, what a blow this international clean-up program must be to the personal liberty of the corn borer.

SUGAR CROP INCREASES.

A N increase in acreage of world sugar crops in 1927-28, is indicated by reports to the bureau of agricultural economics. Estimates for the 1926-27 crop indicate a production of 26,234,000 short tons, which is considerably larger than the crops a few years back, but below the record crop of 27,715,000 short tons last year and 26,755,000 tons in 1924-25.

World trade in sugar has nearly doubled since the war, and consumption of sugar in Europe and America is keeping pace with the largely increased production.

The European sugar beet acreage this year is expected to show an increase of about ten per cent over that of last year. All European countries excepting Rumania and Poland are planning for larger beet sugar production than last year.

MISQUOTED ON BOVINE TUBERCU-LOSIS WORK.

FALSE and misleading propaganda west against the government's bovine tuberculosis eradication campaign, according to Dr. John R. Mohler, chief

One statement is being made to the effect that Dr. Mohler has said that tuberculosis is spreading faster than ever before. This Doctor Mohler denies, as tuberculosis has declined in the United States in the last few years from more than four per cent to about

Dr. Mohler says that another statement credited to him, asserting that the tuberculin test may spread tuberculosis is also untrue. On the contrary, the disease is rapidly being million dollars last year. ment credited to him, asserting that

eradicated and the tuberculin test is the diagnosis agent by which eradication is being accomplished.

"In general," says Dr. Mohler, "publie sentiment toward the eradication of tuberculosis in recent years has been most favorable. The press, radio stations, and public speakers, with few exceptions, have warmly supported that important branch of public service, which is a factor in public health as well as a benefit to the live stock

News of the Week

The West Virginia house of delegates recently passed a bill making the daily reading of the Bible compulsory in the public schools of the state.

Twenty-one foreign battle ships are near Hankow, the Chinese nationalist capitol, as recently the Chinese authorities violated their treaty by searching private-owned Russian prop-

A group of men in the laboratories of the Bell Telephone Company in New York, saw and heard Secretary Hoover make a speech in Washington through the new television equipment.

Leigh J. Young, the newly appointed head of the state conservation department, said that all his appointments will be made on the basis of civil service examinations.

The big egg-freezing plants in Han-koy and Nanking have been closed by the Chinese agricultural commissioner, because of the Chinese civil war.

"Big Bill" Thompson, former mayor of Chicago, was elected to that office again by a large majority over the present mayor, William Dever, democrat. Thompson is anti-prohibitionist.

Due to the threatened boycott by the retail merchants of Detroit and other places, the Ford Motor Company will close its retail stores to the general public after April 18. These stores were selling groceries, drugs, shoes, notions, meats, paints, lumber, etc.

Investors in United States securities are careless, for they have failed to collect \$35,000,000 of interest due them on Liberty Bonds.

Although the executive mansion is closed, President and Mrs. Coolidge will be hosts to the Washington children at the annual Easter egg rolling on the White House lawn. Last year 40,000 people attended the event.

The Sapiro-Ford case continues to make slow progress in the Detroit court. Sapiro has been cross-examined and Ford is due to be soon.

The national assembly in Norway abolished prohibition when it passed a bill removing restrictions on the sale of liquor.

Rabid coyotes, dogs and other farm animals have terrorized farmers in Bear Valley, Oregon, who have asked government help to exterminate rabid animals

The U. S. good-will fliers have left the main land of South America to vis-it the island of Trinidad.

The export of American automobiles is steadily increasing. In February there was a 7.2 per cent increase over the same month last year.

Forty-six years ago, Wm. English, of Wichita, Kansas, scratched his initials on a half dollar. It recently came back to him in Watertown, New York, in change at a gas filling station.

Mussolini, the Italian premier, has issued strict regulations regarding dancing, and has virtually declared war on night clubs.

In 1908 John Krubsack, a Wisconsin farmer, planted twenty-eight box elders, according to a definite plan. By ALSE and misleading propaganda now values at \$4,000, and which is being broadcasted in the middle

sing exhibited throughout the country.

Since the University of Illinois has denied the students the privilege of using autos, the students have taken to roller skates. Recently a roller skating derby was held there.

The United States entered the World War on April 5, ten years ago.

Leningrad, Russia, is believed to have shattered all records for drunkenness, suicides and murders. Five thousand one hundred twenty-four persons were arrested for drunkenness in one week, and there are seldom fewer than three murders a day. The waiting list of those seeking a cure for drunkenness and drug habits at the government institute extends into June.

An analysis of the Ford financial

DEVOTED TO MICHIGAN VOLUME CLXVIII

A Practical Journal for the Rural Family MICHIGAN SECTION THE CAPPER FARM PRESS

QUALITY RELIABILITY SERVICE

NUMBER XVI

Dairy Cooperation in Minnesota

How Farmers Built a Great Merchandising Business

FIVE years ago, just before the dairy farmers of Minnesota had federated their cooperative creameries to market and merchandise their own fine butter under their own brand, W. F. Schilling, well known Minnesota dairyman and cooperator, was called to New Jersey to talk cooperative marketing to a group of farmers near Philadelphia. After explaining the opportunities of cooperatives to merchandise the farmer's prducts, Mr. Schilling asked:

"Will you farmers (there were two thousand of them in the audience) who have eaten Minnesota butter raise your hands?"

Not a hand went up.

"Will you who have heard of or eaten Luella brand butter, please raise your hands?'

Hundreds of hands went up. "Where was it made?"

By Berry H. Akers

Standard Farm Paper Editorial Service

"In Philadelphia," was the reply.

Minnesota, and was put up under that brand for one of the chain stores with headquarters in Philadelphia. Not a pound of it—and that chain store was then taking the entire output of over seventy-five Minnesota creameriescould be identified by the consumer as having come from Minnesota. The farmers had been content to milk the cows and make the butter, leaving the merchandising with all its advantages of prestige and price, to the buyer.

Now it is different, as the bulk of Minnesota's fine butter is finding its way to the consumer's table under the

most of the principal consuming cent-The fact was that Luella butter was ers of America, and even in far off made in the cooperative creameries of Australia and Peru. It is made and packed by Land O' Lakes Creameries, Inc., this organization being a federation of 402 cooperative creameries in Minnesota, and several in Wisconsin, Michigan and North Dakota. It was known when organized in 1921, as the Minnesota Cooperative Creameries' Association, but the name was changed last year to obliterate geographical lines, and thereby make it possible for the cooperative creameries of Wisconsin, Iowa and adjoining states to join in its ambitious cooperative pro-

Started five years ago without a dolfarmer's own brand. Land O' Lakes lar and without a member, it stands sweet cream butter is now known in today as an outstanding success in co-

operative marketing. Its asset and working capital now exceed \$909,000. It represents approximately 84,000 dairy farmers. Theodore Macklin, of Wisconsin, cooperative marketing authority, who has studied the dairy cooperatives of Denmark and New Zealand at first hand, makes the statement that the Land O' Lakes organization ranks next to the California Fruit Growers' Exchange, and predicts that within a few years, when it controls a somewhat larger percentage of the fine butter made in America, it will absolutely dominate the fine butter market. It is already a reckoning factor in that market and as such has helped every dairy farmer in America.

Last year the Land O' Lakes organization marketed 80,622,796 pounds of butter, and did a total business of \$39.-851,655. The average monthly gross price paid member creameries for but-

(Continued on page 527).

Fighting Corn Borers With Plows

How the Farmers Can Go Over the Top in This International Conflict

HE national government appropriation for corn borer control work is intended to reimburse farmers in these areas for the additional cost to which they are put in carrying out a program of thorough clean-up of all cornstalks, stubble, and waste. By reason of this payment for extra work for clean-up to hold back the corn borer, Michigan farmers owe it to the national government and the sister states to see that the job is thoroughly and effectively done. Michigan and adjoining states are the shock troops depended upon to hold the enemy's line, and I am confident that so far as Michigan farmers have instruction, they will carry out the order to the letter.

Are you in the quarantine area? Some farmers are overlooking this important point. The quarantine area in Michigan includes twenty-three counties of eastern Michigan, including Bay, Saginaw, Shiawassee, Ingham, Jackson, Calhoun, Kalamazoo and St. Joseph, as well as all counties east of

If you are in the quarantine area, action is necessary to dispose of all cornstalks, stubble, and rubbish by plowing under completely, or by burning. No arbitrary rule is made as to the methods by which this is to be done, but it should be done thoroughly.

most effective methods of control, since it offers, when properly done, a simple and inexpensive way of stalk and stubble disposal. There is great opportunity to improve plowing on Michigan farms, and good plowing will reward the farmer in yields and satisfaction, as well as reducing the ravages of the corn borer.

ery farmer should acquaint himself, turned over in deep plowing to cover acre on corn grown last year, extra secured,

By H. H. Musselman



Doing a Good Job with the Team and Ordinary Plow Properly Adjusted.

trouble to do the job completely can be afforded.

clean or foul with weeds, will all have Plowing promises to be one of the also be remembered that the work eighteen-inch bottoms. must be done so well that no stalks, stubble or trash will come to the surface with subsequent tillage.

There are four things to consider in good plowing: depth, width, plow hitch and adjustment, and attachments.

As a rule, as deep plowing as is con-The plowing season is opening. Ev- the usual width plow, as more soil is

It can also be stated that the wider plows will do the more effective work, What is the best way to turn the because the furrow slice is turned stalks and stubble under? There are over better, and the wider plows will a number of good ways, some of which turn better at a greater depth. Plows I will describe, but every farmer will be used this spring up to eighteen should consider that soil, size of corn, inches in width for a single bottom. whether standing stalks or stubble, For heavy standing stalks, it is doubta bearing on the problem. It should completely with less than sixteen or

In plow adjustments, the share should be sharp and have sufficient effective. vertical suction (point of share tipping downward) to pull the plow into the ground. This is especially important where the gage wheel rolling over stubble tends to raise the point out of sistent with good practice should be the ground. The amount of vertical followed. This is especially true of suction should be one-fourth to threeeighth inch. Horizontal suction (leaning point toward the land) will make with the most effective way of turning the trash. However, the depth should the plow run more steady. Horizontal under completely stalks and stubble. not be so great as to push the furrow suction should be one-fourth inch. The With a reward up to two dollars per slice sideways or covering will not be fourteen inch width of plow will be be the first in your neighborhood to found quite effective, especially when set that standard?

equipped with wire or chain attachment, or both. These attachments will be described later. The fourteen-inch plow is useful, since three furrow width of the plow is exactly the usual width of corn rows. With careful work, the plow can be made to turn each stubble row in the same way. The most useful attachment will be the rolling coulter and jointer. Since the rolling coulter cannot be used on some walking plows, the jointer will be more generally used. It should be set one and one-half to two inches deep, one-half inch to land from the land side, and with the point the low-

A No. 9 wire attached to the coulter shank or beam, with the loose end allowed to drag for four feet under the furrow slice which is being turned, will be found effective. If you have not used this, try it. The best adjustment can be found in a few minutes.

A one-half or five-eighth-inch chain, with one end attached to the jointer shank and the other to the evener, and with a length of loop just escaping the furrow slice as it is turned over, will be effective in wiping both stalks, stubble and trash into the bottom of the furrow. To keep the chain tight, a knot is sometimes tied in it which will drag in the bottom of the furrow. A second short piece of chain attached to the first and allowed to drag under the furrow will keep the first chain tight and make it more

These suggestions apply principally to walking plows. For riding and tractor plows, both rolling coulter and jointer, as well as one or more wires for each share, should be used. For plowing under standing stalks with a fourteen-inch plow, at least once over with a disc harrow in the direction of plowing, may be found effective.

The corn borer fight will require new standards of plowing. Why not MICHIGAN SECTION THE CAPPER FARM PROSS



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Editors and Proprietors

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Detroit, Michigan 1632 Lafayette Boulevard Det Telephone Randolph 1530

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VOLUME CLXVIII

NUMBER SIXTEEN

DETROIT, APR. 16, 1927

CURRENT COMMENT

The Apple Growers' Dilemma

HE apple growers of the country are not in the happiest state of mind, because their operations during the past year

were not profitable. In fact, for a period of several years their financial returns have not been sufficient to enable one to call them good automobile prospects.

Over-production seems to be common cause of the conditions confronting the apple grower, although we believe that over-production is not the fundamental cause. The encroachments of other fruits upon the apple market has made that market more limited at a time when it should be expanding. The growers of other fruits have been able to widen their markets through acquainting the consuming public with the value of their fruit. intensive advertising campaigns have been the weapons used.

The status of these fruit growers was worse than that of the apple growers. They either had to fight or give The apple growers are now coming to that same realization and the advertising campaign now being planned should effectively place the apple in its proper position in the consuming market. We are pleased to note that Michigan ranks second in the as it did then. Do not wait until next ing movement.

Better Days Ahead going, but by everything that is good, it seems certain we are on our way to some-

thing that has the appearance of being an improvement over present ways. At least, that is true if some of the things mentioned below ever come to vee. It is the purpose of the National the average hen.

in grooming horses; washing bottles tered, community organizations are inand dishes; grinding feed; running cream separator; milking cows; drying, baling and hoisting hay; mixing vacuum cleaner; operating ventilators, running water, refrigerator, cooking and lighting systems; controlling insects; sprouting seeds, etc.

This is only a partial list of the scores of experiments that are being carried on by these electrical engineers. Some of the operations tried will prove helpful; and in their success many more uses will suggest, or pre- Pamphlets of information on music in value to the farmer, will ultimately be realized.

Keep Up the Fight

THE anti-trespass ly by the Michigan our universal language. State Senate is now in the hands of the Committee of Conser-

vation in the House of Representatives, of which Frederick R. Ming, of Cheboygan, is chairman.

As indicated last week, this bill was so amended by the Senate as to greatly destroy its usefulness to the farmers as a measure for correcting the evils of unrestrained trespassing by hunters and fishermen upon the property of farmers. The only hope of securing satisfactory legislation on this subject during the present session, is for readers to write Chairman Ming urging his committee to restore Section Four of the original bill which provides the necessary machinery for enforcing the penalties for violating the provisions of the measure. We, therefore, urge our readers to immediately correspond with the chairman of this committee, addressing their letters to him at the House of Representatives, Lansing, Michigan. It will be necessary also, to send letters to your representative asking him to sup- heavy penalty for chicken stealing.

ment stations in the use of electricity sic. Special programs are being util- continue to increase so that prices ing put on trial is its adaptability in rural life. Once the wedge is enspired to carry on musical activities average hen is about seventy eggs per throughout the year.

This year Music Week is announced feed; cleaning poultry houses with the for May 1-7, and rural organizations will benefit by giving special attention to a program that will supply this fourth great material want to the folks in their community.

Through the National Music Week committee, plans may be secured for Music Week programs in rural communities. Address this committee at 45 West 45th Street, New York City. sent themselves, to the end that a the home, family and group singing, great field of usefulness, reaching far and music appreciation through the beyond the present conception of its radio and phonograph may also be obtained.

Music is the "universal language of mankind," and if we are to live closer to, and understand our neighbors, we bill passed recent. should endeavor to better understand

> Help These Measures Along

ON Tuesday of this week the Michigan State Farm Bureau arranged a hearing before agricultural and judiciary commit-

tees of the state Senate on the need for legislation giving relief to farmers from chicken thieves. Since we published a broadside on this subject many months ago, much has been said by and for the farmer on the matter. The farmer is certainly justified in asking for relief along this line.

Two bills have been passed by the House which promises to help. House Bill No. 19 requires all firms purchasing poultry to make a record of the name of the seller, his residence, weight, business occupation, kind of poultry purchased, etc. This record is to be open at all times to sheriffs and police officers. This bill is now before the senate agricultural committee. House Bill No. 167, a companion bill to the above, provides a

on the farm. Among the many ways ized as an entering wedge to make will tend lower. This will naturally in which this mysterious power is be- music play its part more abundantly make the margin between profit and loss much narrower.

It is said that the production of the year, but that ordinarily a yearly production of 160 eggs is needed to maintain a flock at a good profit. As egg prices continue to decline, an even higher egg average will be necessary to maintain a good margin of profit.

Like the automobile business, the chicken raising industry is approaching a period of competition in which the careless and unefficient producer undoubtedly will have to quit. Those who realize this period of competition is coming, and will prepare for it by making their business more efficient, will profit thereby. It is doubtful if the chicken business will ever be unprofitable if carried on efficiently.

Strings

WAS just looking fer a ball of string and couldn't find it and, it's funny, that made be think of strings.

You know, I think strings is one of the most useful instruments o' civilization. In fact, I think civilization would come apart if it wasn't fer strings. It's the strings we attach to each other that makes living together possible. One of the greatest strings is the marriage string, and that gets into such a hard not, or knot I should say, that it's sometimes hard to untie. But if you got money enough you kin



get a expert to untie it fer you, but there's some folkses I know that think they're tied up fer life with a rope a foot thick.

There's some others what are tied up with the

strings of the heart, and they are happy because nobody ties any nicer knot than Cupid, 'cause there's no greater happiness than when the heart strings are tied. The reason so many ain't happy, though married, is 'cause the heart ain't in the tieup.

Every little baby that comes is also a string that ties us tighter. Everything we do in kindness is also a tie in love and affection, and every wrong thing we do is one more that ties us to evil. Sometimes these ties get so strong that it is hard fer us to cut ourselves loose.

We can't live without being tied to something, so we've got to be awful careful what we get tied to, 'cause the strings o' habit are so strong that often they don't get untied until the strings o' life are cut, and then the undertaker ties a few knots in the

If we didn't have strings we wouldn't be able to wrap anything up. Ain't it awful, how bad we feel when we bust a shoe string. It's caused some folks to bust the strings on their temper and to have a hard job getting it tied up again. Women, and some men, too, couldn't have their shapes made to order if it wasn't for corset strings, and if it wasn't fer strings, we'd have to wear fig leaves, like Eve did in the afternoon, because our clothes is strings woven closely together.

They say the latch string is out for fellow hospitality, and a is stringing markable increase in 'em when he is making folkses believe efficient methods of something that ain't so. Some folkses handling poultry has maybe think I'm stringing this out too put the business on a long, so I guess I'll tie my knot and more competitive basis. As in dairy- quit. But, before I do I wanta say ing, one now can tell definitely wheth- there ain't nothing nicer than the THE fourth great er a hen is paying her way, or is fill- cords of love and affection, and I material want of ing the position of star boarder. This, wouldn't mind being tied head and our nature is music- with the selection used by the hatch- foot with them. They help to make

Even Sofie is talking about tying a it to get me up in the morning. She The total production of eggs and says the family ties will be disrupted

HY SYCKLE.

Master Farmer Nominations

W E are highly pleased with the nominations received to date for the 1927 class of Michigan Master Farmers. The standard of the farmers whose names have been sent in is well up to that established in 1926. Several farmers in the state deserve to be named for this honor, but their nominations have not as yet been reported. Since only persons who are nominated will be considered in the contest this year, it is important that the names of such men be forwarded promptly by their friends. If score cards are not available, send in the names at once and score cards will be forwarded so the scoring can be done later. The date set for closing the nominations is May 1. It is important, therefore, to forward nominations immediately. Address all communications to the Editor, Michigan Farmer, Detroit.

port this measure when it comes to This bill is now in the hands of the the floor of the House for the consid-judiciary committee of the Senate. eration of that body.

their constituents desire, providing mittees to report out these measures. wants are sufficiently emphasized by voters. This is our reason for continuing to urge this measure. The methods employed by the widow of long man of each of these committees, urgago, who persistently made her ap- ing the enactment of these measures. peals from day to day to the unjust judge, should win out in this instance, membership in this national advertis- fall, when hunters are thick and you are beside yourself to know what to do to protect your property, and pre-I T is very difficult to serve your piece of mind. Prompt actell the way we are tion now may give you relief then.

> The Universal Lan guage

Music Week to supply this fourth great In twenty-two different states experi- material want of our nature, and to poultry in the country has been grad- if I don't do better soon. ments are being conducted by experi- develop a greater appreciation of mu- ually increasing, and will probably

The purpose of the hearing called Legislators are inclined to do what by the farm bureau is to urge the com-You may not have attended this hearing; but you can aid in the good work by writing your senator and the chair-

> The Egg Competition

THERE is no doubt but that the re-

first food, then rai- eries in getting their eggs from high it easy to stand the discords of life. ment, then shelter, producers only, has had a wonderful then music, said Bo- effect in increasing the production of string around my big toe and jerking

Conservation of Game

Suggests Working with Farmer

By Ira W. Jayne

conservation department made an ef- lars by the depredations of sheep-killfort they could have the hearty support and cooperation of the great bulk of the farmers who control this territory, which would mean increase in game, because the question of taxation is the only question which exceeds the question of game laws in interest and irritation with the average farmer.

Take the question of increase of muskrats, for example. They have increased wonderfully since the closed season. It opened this winter. Farmers who have fed and protected these rats in their pond holes and creek bottoms for the past few years, some of them more or less unwillingly, were obliged to submit to have itinerant poachers clean out the crop in a few nights, their only protection being an appeal to the civil trespass laws which are hopeless. The same situation is equally true of the rabbit, partridge and pheasant. Farmers feed and protect these small game more or less unwillingly at the expense of depredations on their crops during the season. When the game season opens in the cooperation and support of the farmer. fall, generally at their busiest time, they are obliged to stand by and watch hordes of foreign hunters, equipped with complete killing paraphernalia, wander over their fields and clean up the game in a fortnight.

wild ducks of the various kinds who Farmers could be induced to protect and encourage the breeding of these ducks, which would mean nothing but remain until small sprouts started. judicious feeding, if they received cooperation and protection from the conservation department. If I understand the situation correctly today, the only time the conservation department will cooperate in protecting the farmer is when he makes a farm a game preserve, which prevents him from hunting entirely, and profits his neighbor only.

There is another phase of the matstanding. Skunks and weasels particularly, and to a considerable extent, mink, destroy a great deal of domestic poultry and eggs during every season, game. The weasel is a killer for the fun of killing, sometimes destroying forty or fifty fowls in a night. A neighgame protectors of the state.

difficult, as he is a valuable fur-bear- in planting mangels in a large garden ing animal. I have known several in- for use as poultry feed, and might not stances of the local authorities threat- be as good where a large acreage is skunk who were nesting under their as sugar beets.-R. G. Kirby.

S MALL game hunting and fishing, residences, and living as well off their and the best trapping, is today in poultry. Every community is damagthe older settled communities. If the ed to the extent of thousands of doling dogs. Some statistics of the amount of money which some of these counties pay out for sheep killed by dogs would be interesting, and the county, of course, cannot recompense farmers more than fifty per cent of actual damage which he suffers. These dogs also worry and destroy much small game. Their destruction would test the skill of some of the experienced wolf wardens. It would be a service in the interests of conservation and would pay for itself many times over in the savings of taxes. Why would it not be a good idea to turn all of the dog license fees into the conservation department fund and make them responsible for the destruction of unlicensed dogs? Then to place one game warden on full time in each of the counties of the lower part of the Lower Peninsula where these problems are acute? Acquaintance would lead to confidence. And the conservation department, by opportunity for service, would secure the

PLANTING MANGEL SEED.

MANGEL seed seem to germinate very slowly, and for that reason the weeds often make a good start There has been a great falling off in before the mangels are large enough the local nesting and breeding of the to cultivate. For the last two years I have placed my mangel beet seed in used to breed naturally in Michigan. large dishes and poured warm water over them. Then I have placed the seed in the sun and allowed them to

Then the sprouted mangel seed have been planted in rows by placing about three seed every foot. As soon as the plants were about an inch high they were thinned to one plant every foot. This has seemed to insure one healthy mangel beet for every foot, and as the germination of mangel seed is sometimes rather low, I have found this method better than sowing dry seed in drills and doing a lot of thinter which requires a better under- ning to keep the beets far enough apart. By sowing in drills I sometimes found vacant spaces in the rows.

I have tried to transplant mangels to fill in vacant spaces in the rows, as well as large amounts of small but always found that the transplanting gave the young plants a severe setback and they seldom developed the size of the plants which did not have borhood infested with these animals to be disturbed. By the hill method should have the assistance of expert there was a good chance of finding at léast one good beet for every foot The problem of the skunk is more of the row. The above method is used ening and punishing those who kill raised under field conditions the same



The Potato Train, which was Exhibited at Many Points in Southwestern Michigan, was Visited by Over Six Thousand People.



Right in Your Home Town

You can buy tires through the mail of course, but one of the biggest factors in low-cost mileage you cannot buy that way.

It is the valuable service performed for you by your local Goodyear dealer.

He sells the world's finest tires. His prices are low. He has in stock the right size and type of tire for you.

He will mount your new tire on the rim, fill it with air, and long after the sale help you care for it so that it will deliver you its maximum performance.

The benefits of this helpful service are not listed in any catalogue. But they are available to you now in the store of your hometown Goodyear dealer.

They are the worthwhile fruit of the Goodyear policy: to build the greatest possible value into Goodyear products, and to provide facilities so that users can get all this inbuilt value out.

Goodyear makes a tire to suit you - whether you want the incomparable All-Weather Tread Goodyear, the most famous tire in the world, or the lower-priced Goodyear standard quality Pathfinder

Goodyear Means Good Wear



300 lbs pressure means

There's just one traction sprayer made that operates at 300 lbs. pressure or more—that one's a "FRIEND". Don't sprinkle the vines, cover 'em with a fine

Just drop us a line today for our Free, Bulletin showing features that make this pressure and beautiful spray possible.



State Capitol News

By Our Lansing Correspondent

It is to be hoped that the Legisladure will speed its work to completion now that it has been provided with a detailed report as to the state's true financial condition. Up until last week, delay on the important appropriation measures was excusable, because the law-makers did not know what the audit of the state's finances would reveal. The report of finances would reveal to the senators deficit at the beginning of this period, of \$1.058,575. Thus our total inherited deficit in the general fund as of June 30, 1927, will amount to \$5.282,162.

"In addition to the deficit shown in the foregoing report, legislative building and improvement appropriations aggregating \$3,415,469, were passed on to this administration without any political gesture, and manifestly cannot be financed."

In concluding his message, Governor Green said: this audit, presented to the senators and representatives assembled in joint tees ask for appropriations of more convention last Tuesday, was none too than \$96,000,000 for the next two encouraging. The governor's comprehensive report, as to the condition of and representatives assembled in joint tees hensive report, as to the condition of the state's general fund, might be summarized quite well in the following two paragraphs:

"Expenditures authorized by the pre-SAVE CALVES and prevent by using Aborno, the pioneer, guaranteed remedy for Contagious Abcrtion. Write for free booklet today.

Aborno Laboratory 92 Jeff St. Lancaster, Wis.

nor Green said:
"The bills now before your commitpresent tax rate will be about \$63, sored this whipping post amendment, 500,000. Over five and a quarter millions of this must be used to cover the existing deficit. Approximately \$58, 250,000 of current revenue will be available for departmental and institutional appropriations.

tional appropriations. additional revenue from the normal increase in assessed valuations, but it will still be necessary to cut approximately \$38,000,000 from these requests. This is manifestly not a time when you, as individual legislators, can hope that the bills in which you are personally interested will go through with ally interested will go through with-out cuts. Reductions must be made all the way down the line. My appeal is to make every sacrifice necessary to to make every sacrifice necessary to bring the financial condition of Michigan back to a sound basis, without placing added burdens upon the tax-payers. We must apply economy and business principles to the affairs of our state government. We must not punish the people with an increase in the tax rate because of the wanton extravagance of those who have been in power." in power.

The first gesture toward winding up Michigan Federation of Labor. the work of the present session of the Legislature was the introduction of a in that it shows that at least one mem- er the courts will uphold the act. ber doesn't expect the present session to be endless.

legislature. Senator George Leland, lify this constitutional provision. of Fennville, has introduced a bill prorevenue to the counties so that, taken the Legislature. with the \$6,000,000 which they now receive from the weight tax, the total amount to be returned to the counties would be a full fifty per cent of the weight tax receipts.

A considerable element in both the Senate and the House are not favorably disposed toward this proposal, and are busily at work in an attempt ably we considerably less than those now in effect.

The secretary of state's office is said to have finally given its approval to the permanent license idea, and if so, one hurdle in the path of such legislation has been surmounted.

Spreading Covert Act highway assessments over a period of twenty years instead of ten years, as at present, is proposed in a bill by Representative Jacob Martin, of Monroe.

Complete revision of Michigan's law relative to bees and apiaries as proposed in a bill by Representative David H. Brake, of Fremont, was approved lungs has been announced.

by the Senate twenty-nine to one. This measure had previously passed the House, and now goes to the governor for his signature.

Angered by the delay on the part of the Senate in regard to capital punishment, the House amended two Senate bills relative to the punishment of bank, safe and vault robbery, and breaking and entering while armed, by giving the judge discretionary power to impose the added penalty of ten to twenty strokes of the lash "on the bare back, well laid on," at the end of each six months' imprisonment. The total number of strokes per prisoner could not exceed 300. Representative Charles Culver, of Detroit, who sponsored this whipping post amendment,

ator Joseph E. Watson, of Bronson, "To maintain our present tax rate, therefore, drastic reductions are imperative in the appropriations asked of this Legislature, and now before your committees for consideration. With the same tax rate, there will be additional revenue from the normal increase in assessed when the propriate in the property of the pro ment for breaking and entering while armed. Both bills as amended wery given immediate effect by the House. The Senate has refused to accept the House amendments, so the question as to whether or not Michigan is to reestablish the whipping post is as yet

undetermined. Amendments to the workmen's compensation law increasing the maximum weekly allowance from \$14 to \$18, and embodying other features desired by organized labor, were approved by the

House when it passed by a vote of eighty-three to twelve, a bill by Representative Frank Wade, of Flint. Representative Wade is president of the

An expense allowance of \$5.00 per resolution by Senator A. H. Gansser, day for the members of the Legislaof Bay City, which would provide for ture has finally been approved by both concluding the law-making on April 30, the House and the Senate. It remains No definite action has been taken on to be seen whether or not the goverthis resolution, but it is encouraging nor will sign the bill and, if so, wheth-

The compensation of the law-makers is specified by the constitution as \$800 per two-year term, and there are those Highway finance is holding its place who hold that the action of the solons as one of the most important and most in voting themselves an expense alcontroversial questions before the state lowance is an obvious attempt to nul-

No member would be allowed the viding for a three cent gas tax, and \$5.00 expense refund except for days the return of enough of the gas tax actually in attendance at a session of

STRAWBERRY PRODUCING AREA SHIFTS.

A LARGE strawberry crop is forethe Bureau of Agricultural Economics. All the important strawberry states show increases of one-fifth to oneto perfect a compromise which would fourth compared with 1926. The strawprovide for a four cent gas tax, per. berry belt is continually shifting. Sevmanent licenses for passenger cars, eral years ago the Delmarvia Peninand an annual weight tax on trucks sula, including Delaware and the eastand buses. Instead of the flat \$5.00 ern, shore of Maryland, was the leadpermanent license first proposed for ing strawberry producing district, passenger cars, it is now suggested Then Tennessee became the leading that the cost of such permanent strawberry state. Later came Louislicenses be fifty cents per hundred iana and the Ozark region in Missouri pounds of the weight of the vehicle. and Arkansas, but last year the center The rates for light trucks would prob- of the strawberry belt swung back to Maryland, which led the states with 34,000,000 quarts.

SOIL EXPERTS TO COME TO WASHINGTON.

THE forthcoming International Congress of Soil Science, to be held in Washington on June 13-22, promises to be the largest gathering of soil scientists ever held in the world. Authorities on soils from all parts of the world have accepted invitations to attend and many will present papers on the various phases of soil study.

A method of X-Raying the heart and



HARRIS HOME No. KA-700 hundred other attractive homes in the Har-Book of Plans. This one, size 28x20 ft. is with five large sunny rooms or four rooms



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Best Construction and Materials! Harris Homes feature latest approved methods of construction and finest materials from foundation to roof. Under our improved ready cut methods, we save you money at every turn in planning, prepara-tion of material, and construction.

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We furnish a free and valuable architectural service with blue prints, construction details and material specifications. Mail coupon now,

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Pipe and Fittings
Pipe and fittings of all kinds in all
sizes. Send us list of your requirements for money saving prices.

Breakfast Nook Set

98c

COMPLETE \$60

\$11.50

Sash Special

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Pieces

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Field Fencing 31c All other kinds priced low.



Guaranteed Paint

\$210 Per No. KA-12. Finest house paint in 32 colors. Guaranteed not to fade or Per gallon

Special Outfit -I4. Special 5 gallon kit of mt with high grade 4 in. th set in rubber. \$11.00

red, yellow or \$1.50 **Mixed Nails**

Cream Separator

\$4250

CHICAGO

Barn Paint

HEATING

\$17.00

HARRIS BROTHERS CO. 35th and Iron Streets

No. KA-501. Twin hexagon shingles in slabs. Red, gray-green or blue-black. When laid have the appearance of individual shingles. Price per square of \$4.90 Others as low as \$2.95 per square.

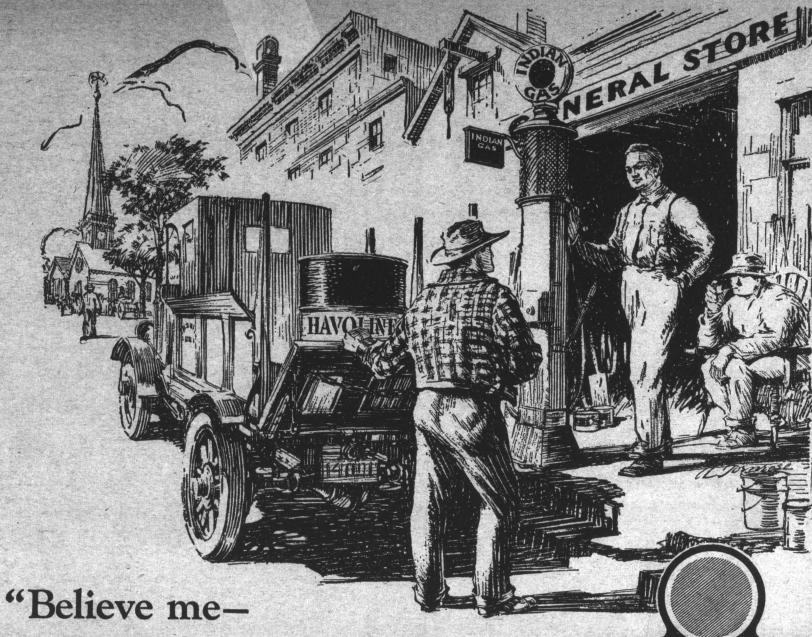
Roll ary fittings......\$60.00 Roofing **Enameled Sink** \$225 No. KA-22. Sanitary white porcelain enam-eled roll rim sink. Right or left drainboard with nickel plated fameera and trap. 42 523.50 ins.long. Each \$23.50

Wallboard

sized for decorat-Sheets 48 ins. wide six to twelve feet Price per \$2.70 Combination Door

\$5.50 Great Tire Offer

\$7.95



you'll go a long way before you find a better oil than Havoline"



Havoline's power twin is Indian Gas. Made in the same refinery. Same superlative quality. A peppy, quick-starting, antiknock POWER GASOLINE.

"Anti-knock" is a magic adjective when applied to gasoline. It describes fuel that won't cause your engine to knock or "ping" under load. It means full power when you need full power most.

"Anti-knock" describes Indian gas, scientifically blended to give fullest anti-knock qualities. Yet Indian is sold at the regular prices—no premiums.

"Yessir," continued the storekeeper, while his newest customer stowed away the drum of Havoline in his truck, "you'll never regret the day you tried Havoline.

"I don't pretend to be an oil engineer or anything like that. But I've been handling Havoline for a good many years. It's made right here in this part of the country—all from the same grade of crude—and by the same men for the last twenty years. Some of my trade have been using Havoline almost that long.

"About ten years ago, one of these steady Havoline-users told me he figured that he got more power when he had Havoline in his truck and tractor. Well, I didn't pay much attention to that. Then another man told me the same thing. I got to asking them about it when they came for their oil, and pretty near every one had the same hunch—that Havoline was a power oil.

"Then, a couple of years ago, along comes a new invention called the Wasson Motor Check which scientifically proved that all those hunches were dead right. 60,000 cars were tested. With a full crank-

- the power oil
INDIAN REFINING COMPANY. Incorporated

HAVOL

case of Havoline, the big majority of 'em were able to run up power gains of from 10% to 30%.

"You'll notice the difference when you get that oil working in your tractor. Let me know how it pans out. And remember we've got the other grades of Havoline you'll be needing for the rest of your equipment. And Havoline greases, too."

Thirty per cent more power means something on a farm. On the one hand, you can take it to mean more work—or the same work finished in less time. On the other, you can think of it in terms of economy—less gas and oil and less wear and tear on your equipment. Havoline is the power oil, but it costs no more than any of the well-known oils.

Order your Havoline today—in 5-gallon cans, 30- or 50-gallon drums—from any Havoline dealer or the nearest Indian station. Consult the Oil Power Guide and the Truck and Tractor Guide to determine the correct grade of Havoline for each of your engines. Copies of these "Guides" will be mailed upon request. Or ask your dealer.

Indian Refining Company

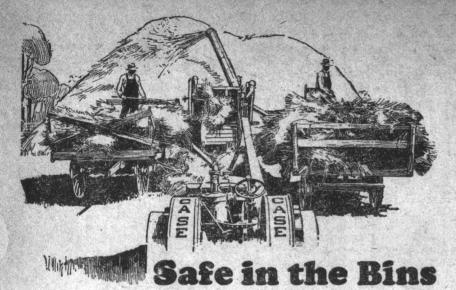
Incorporated

Lawrenceville, Ill.

Established 1842

The sign of

mechanical excellence the world over



HIS season, when I see so much grain sprouting and rotting in the fields, I am glad I own a Case thresher. All of my grain is safe in

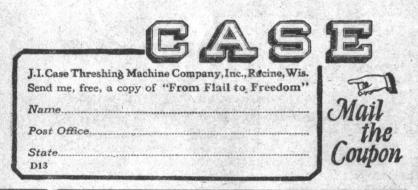
If you own a Case thresher you are protected from many serious losses. This protection costs you nothing because a Case thresher pays for itself in a short time—in bad years it is the means of saving entire crops.

Case steel threshers are preferred by experienced men because they do good, clean, fast threshing of all grains and seeds for many years, without delay and at a lower cost.

Rugged steel construction, simplicity and easy running make the Case the ideal thresher for the modern farm where efficiency and economy count.

This year take no chances with your grain, mail the coupon today.

J. I. Case Threshing Machine Co. Dept. D13 Wisconsin



'RY a Michigan Farmer Liner to sell Your Poultry, Real Estate, Seeds and Nursery Stock and Miscellaneous Articles. See Rates on Page 553.



"More Milk with More Cow Left at the End of the Year"

Milkmaker, a Public Formula Ration, Builds for the Future

HE important part that Milkmaker plays In Michigan dairying is probably best set forth in the claims made by hundreds of Michigan's leading dairymen who have used Milkmaker continuously for one or more years.

These dairymen tell us that they have secured

the following results by the use of Milkmaker,

1. Cows have kept up in better flesh and better physical condition.

flow of mill Calves better developed and stronger at birth.

Freedom from trouble with cows at 4. calving time; no retained afterbirth and no udder trouble.

The strongest advocates of course are those dairymen who have used Milkmaker continuously since it came on the market in 1922.

Buying a Better Herd

These men have realized that in buying and using Milkmaker they are assuring themselves of a better herd of cows two or three years hence.

In buying a bag of dairy feed you do not buy the feed for the feed itself, but for the ultimate results obtained. The results to be obtained are not necessarily determined by the price of the feed. The real value of the feed is determined by the per cent of digestible protein and digestible nutrients, both of which determine results.

A common phrase among users of Milkmaker is "More milk with more cow left at the end of the year."

left at the end of the year."

Ask for booklet on "How to Feed for Economical Milk Production."

Michigan Farm Bureau Supply Service Lansing, Michigan

HITCHING THREE DISKS BEHIND TRACTOR.

To those who wish to use three disks behind a tractor we would suggest the following methods, which

most satisfactory of the two, since the disks half, and double disk at one that kind of work. However, the disks

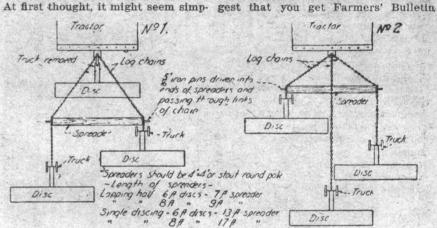
er spreader.

In this case it would be necessary to build a new tank.—F. E. Fogle.

CHIMNEY CONSTRUCTION.

Could a good-sized chimney, forty have been worked by some of our readers and found practical. The first if it had separate flues up a few feet method illustrated, seems to be the above fireplace opening?—Subscriber.

It would not be desirable to have a the load is closer to the tractor and fireplace and furnace connected to one there is less chance of the two rear flue, but rather there should be two disks fouling each other in turning. flues. The cross sectional area of fire-Since nearly everyone prefers to lap place flues should be one-tenth to oneeighth of the area of the fireplace opoperation, both hitches are shown for ening. The size of flue for a furnace would depend upon the size of a furcan be spread out more with the long- nace. An 8x12-inch flue is large enough for an average house furnace. I sug-



A long beam put across rear of tractor with one disc at each end and the third in the middle does not work well, as front wheels of tractor slide side wise in turn

ler to bolt a heavy timber across the No. 1230, "Chimneys and Fireplaces," rear of the tractor, and hitch the disk from the United States Department of at each end, and the third disk at the Agriculture, Washington, D. C.-F. E. middle; but this does ont seem to Fogle. work out very satisfactorily, since the front wheels of the tractor slip badly in turning. With the hitches as shown, this does not bother. If any reader has a hitch for three disks which he is sure is as satisfactory as these, we should be glad to have a sketch and description of same, with dimensions of parts.—I. W. D.

ASPHALT COATING FOR CISTERN.

I have a cement cistern that leaks It has been gone over repeatedly with a cement wash that seems to stop it for a time, but has the bad effect of making the water hard for a while. Would it be advisable to paint this cistern with some of the asphalt roof paints that are on the market, and would there be any bad effects on the water for laundry and bath purposes? Any advice you can give me to stop this leak will be appreciated.—A. I.

Washing with cement is usually only of temporary help. I would suggest that you give the inside a half-inch coat of plaster, of a mixture of one bag of cement, one-sixth bag of hydrated lime, and one and one-half cubic feet of clean sand. Then, to prevent hard water, and to help against leakage from hair cracks, coat the surface with hot paraffin or hot asphalt, or two coats of either dissolved in gasoline. Roof paints and cements are likely to contain materials Cows have maintained a larger and more which will discolor the water or give it a bad odor.-I. W.

MENDING A CEMENT TANK

What can I do to keep a cement water tank from leaking? The water seeps through the cement. There is, also, a little crack in the tank. tank leaks very badly.-F. S.

The tank should be thoroughly washed with water and then be washed with a ten per cent solution of muriatic acid, then rinsed with water. To this clean surface apply a cement plaster. In case the concrete of the tank was made of a mixture having too coda on Lake Huron shore, is the only small an amount of cement, or of inferior gravel, it might be impossible sideration to tall people. Seven-foot to make a cement plaster stick to it. beds have been installed.

TILE CLOGS UP FROM SOAP.

The tile from my kitchen sink joins the tile from the basement at about half the distance to the outlet, or seventy-five feet. The sink is used mostly for washing hands and faces, no dish water being poured into it. During the winter the water from the roof is run into the cistern, but in summer, through this same tile into the outlet. The soap and dirt forms a sort of tough-like substance that, sometimes completely clogs the tile. Do you know of anything that will completely remove this obstruction without digremove this obstruction without dig-ging down to it? The line is not straight, so it cannot be punched loose.

There are a number of preparations sold through plumbing shops and hardware stores called pipe solvents, which are very satisfactory for cutting accumulations of grease out of pipes, and these would probably remove the collections of soapy materials, but I imagine it would take several cans to reach the trouble, away down in the middle of your drain. I think the cheapest and most effective way would be to rent one of the heavy sewer cleaning steel tapes. These are flexible, and about a hundred feet long, with a punching and cutting head, and I think you would have no trouble working it up from the outlet far enough to reach the obstruction. You might also work it in from the upper end of the drain from the basement.

Probably the best arrangement would be to build a basin of cement or of brick, laid in cement where the two drains come together, so serve as a sort of grease and soap trap. The laundry and sink waste could then come into this basin, while the outgoing water would be taken from near the bottom of the basin, leaving the grease and soap scum to collect on the top, where it could be removed every few months .- D.

Greenbush Inn, located north of Osresort hotel in Michigan to give con-

FARMERS GET REVENUE FROM TRAPPING.

PARMERS in the lake and river region of southern Genesee and northern Livingston counties, have found, during the past months of February and March, that portions of their farms that had formerly been considered waste lands, are capable of bringing them as great monetary rewards, for the time and labor expended, as any other part of their farm.

A number of farmers with a stretch of river frontage, open ditches and undrained pond holes, have found themselves better off by between \$300 and \$400 on March 31, than they were on February 1, or the opening of the trapping season.

In normal years lakes in this locality are frozen tightly until well along towards April, or the close of our present trapping season. For that reason they are not near as good trapping ground as that of rivers where open water is secured in all but extremely cold weather. Even during the present year, when the lakes cleared of ice exceptionally early, trappers found the lakes inferior trapping ground until along in March.

Large open drains are favorite runways for muskrats on account of their extended pilgrimages in search of food. They are non-carnivorous, with the exception of a fondness for fresh water clams. The raccoon, however, wanders up and down the woodland streams and ditches in search of frogs and land crabs .- G. E.

WOMEN WANT LAWS ENFORCED.

THE women of the nation are becoming thoroughly aroused over the laxity of law enforcement and the need of public officials who are in sympathy with the law. A women's conference on law enforcement is called to be held in Washington, May 6-7. The leaders issuing the call say the women of the United States will not favor the nomination or election of any candidate for any office who is not loyal to the Constitution of the United States.

USE MORE COMMERCIAL FER-TILIZERS.

FARMERS are using more commercial fertilizers than formerly, according to figures given out by the department of commerce. The biennial census of manufacturers taken in 1926 shows a total output of fertilizers valued at \$206,722,904, compared with \$167,347,351 for 1923, the last preceding census year. Of this amount \$137,074,176 went for complete fertilizers, indicating that the home-mixing of fertilizers is far from becoming a common practice on the farms of this

WIND INJURY OF CROPS ON. MUCK LAND.

IN a majority of muck areas of the state, farmers need to protect this land from wind injury. Four methods are advised by Paul M. Harmer, specialist in soils at the Michigan State College. They are the maintenance of moisture in the soil, compaction of the soil by heavy rolling, the addition of organic matter, and the use of windbreaks. In a good system of muck crop farming all of these methods should be used. He further states that a windbreak of trees should be grown every forty rods on the west and south sides of the areas. Further, by growing strips of winter rye or other grain crops at regular intervals gives protection to such small crops as onions when grown in large fields. In small fields board fences or over-head irrigation outfits are recommended forspecial crops. This whole matter is discussed in detail in Circular Bulletin No. 103 of the Michigan Experiment Station, East Lansing.

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It's Easy to Build Fences with Posts Like This

In the spring of the year when there are new fences to be built, with a hundred and one other jobs to be done, Banner Fence Posts will save you time when it is most needed. Banner Posts can be set up in a few minutes. No holes to dig, no tamping and no staples to buy. Note the big features which are exclusive in Banner Posts and which mean so much in extra service.

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oAll Banner Steel Fence Posts are made of railroad rail design with heavy backbone reinforcing. They are made of NEW STEEL and are GUARANTEED to give the equal of or longer service than any other steel fence post of same weight which is used under similar conditions.

Any buyer who will show that Banner Posts, purchased through his dealer, have failed to give this service, will be supplied by us with new posts, free of charge and without delay.

Banner Steel Posts are not affected by crops and with the least labor and exfrost. Four tence is grounded wherever a steel post is used and danger to your stock from lightning is greatly reduced. With Banner Steel Posts the fence line can be burned off every year, thus getting rid of weeds, insects and rubbish. The clean farm grows the best and biggest

pense. See our dealer in your community. He has Banner Posts in stock for quick delivery. Banner fence Posts may be used with any brand of fence but for best results, ask your dealer to supply you with American, Royal, Anthony, U.S., National, Monitor or Prairie brand fence.

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Spring is the time to clean up and disinfect.

Time to get busy with the sprinkling can charged with a solution of Dr. Hess Dip and Disinfectant.

Sprinkle it in the poultryhouse—in the nests, roosts, floors. Spray it in the cracks and crevices to kill the mites.

Sprinkle it in the cow barns, in the pig-pens, sinks, drains and closets—wherever there is filth or a foul odor. It kills the disease germs, keeps everything, everywhere, healthful and clean-smelling.

DR. HESS & CLARK, Inc. Ashland, Ohio

DR.HESS DIP and DISINFECTANT



EARNINGS FOR A TRACTOR.

ing silos, and on a saw mill. tractor is a 15-30.—S.

hour.—E. C. Sauve.

HOW TO BUILD JUG CISTERN.

One method of making a jug cistern couple of inches of concrete.

outdoor cistern is to dig a circular trench the thickness of a concrete wall Please advise me as to what a fair which would be about six or eight earning of an oil tractor ought to be inches. The trench may be dug with per day or hour, on belt work, for fill-The a post hole digger, a tile spade, or a tiling spoon. The trench is then filled Fair earnings for a tractor of a 15-30 with concrete up to the point where horsepower rating should be from \$1.50 the sides begin to slope in to form the to \$2.00 per hour. Belt operations, neck of the cistern. The earth around such as filling silos and sawing wood, the neck is then scooped away to form in which the power is intermittently the proper slope for supporting the applied, should bring about \$1.50 per concrete neck. Concrete is then plashour. The heavy drawbar operations tered onto this earth form about five including plowing and disking, should inches thick. After the concrete has bring to the owner about \$2.00 per sufficiently set, the earth core is taken out through the top and a concrete bottom put in, and the inside plastered with cement. This method for building a cistern is to be recommended Would you please give me instructions for building a jug cistern and a yet firm enough to stand as a wall filter for a cistern?—H. M. when a trench is dug.

A third method is to dig a hole of which can be used in hard ground, is the desired size, and by use of a cirto dig a bottle-shaped hole in the cular form of steel, form the wall. In ground and plaster cement mortar di- this case, the earth is used as the outrectly onto the earth. It is usually side form and the steel as the inside not necessary to put on more than a form. The concrete is mixed only to a dry mixture and thoroughly tamped. A second method of constructing an The form is then lifted and another eight or ten inches of solid wall built entirely around the circle. The process of filling the form, tamping it down, lifting the form and refilling it -continue until the cistern is up to the height where it should be sloped in to form the neck, a board form is sometimes used, and the neck of the cistern formed. Concrete blocks and bricks are also used for outside cisterns.

One of the simplest methods of making a cistern filter is to build a wall across one corner of one end of the cistern with porous brick, or build two brick walls of porous brick and fill the space between with sand and gravel or charcoal. The water in the main part of the cistern filters through the walls into the portion of the cistern that is walled off.—F. E. Fogle, M. S. C.

VIABILITY OF CLOVER SEED.

I have some clover seed which is several years old, but stored in a good place. How long can it be kept and still grow good?—E. J. S.

The length of time that clover seed can be held over and still be of value for seeding purposes, depends somewhat upon the original viability of the seed, and the conditions under which the seed is stored.

Assuming that the seed was of high viability to start with, and stored under favorable conditions, seed should well. be of value for at least three or four years.—C. R. Megee.

FERTILIZER-AMOUNT OF COW PEAS AND SOY BEANS TO SOW.

What kind of fertilizer would be best to plant with corn? How many cowpeas and soy beans should be planted per acre?—R. B.

The best kind of fertilizer to apply depend kind of fertilizer that has been applied in the past years, and also upon the nature of the soil.

On heavy land, where legumes have been grown in the rotation, I would suggest the use of a high-grade acid phosphate fertilizer, applied at the rate of from 150 to 300 pounds per acre.

On sandy soils, where manure has been used, or where legumes have been grown in rotation to some extent, a high-grade acid phosphate fertilizer would be desirable.

On sandy soils where manure has been grown to any extent, 4-12-0 should give better results.

When either soy beans or cowpeas are to be planted with corn, it is customary to use from four to six quarts of seed per acre, together with the usual amount of seed corn. Better results are usually secured when a combination planter is used—that is, the ordinary corn planter with the pea attachment. If only a small acreage is to be planted, the corn and soy beans can be mixed together in the hopper. Only a small amount should be put in at one time, since the beans are somewhat round and smooth, and will tend to work to the bottom of the hopper, resulting in a very un-uniform stand. A few farmers have been successful in planting the corn first, and then immediately planting the beans by means of a second operation.-C. R. Megee.

RED TOP AND ALSIKE FOR LOW MUCK LAND.

What kind of grass seed can I plant on low muck ground and cut the hay this year? I have a great deal of low ground, and want to make some good use of it. Would red top grass seed do well, and could I cut it this season? When should I plant it? Will alsike clover do well on low ground? Would it be good for more than one season?

—G. A.

Red top will not produce a crop of hay this season if grown on muck land this spring. Both red top and alsike clover are well adapted to low muck land, but a crop of hay is not secured until the second season. Both are perennial crops and last several years.

Hungarian millet makes one of the best annual or emergency hay crops for muck land. It should be sown about the first of June at the rate of thirty pounds of seed per acre. It should be harvested for hay before the seed matures, preferably in the late milk stage.-C. R. Megee.

ENSILAGE FROM SWEET CLOVER.

Will sweet clover, cut the latter part of June, make ensilage to feed during August, September and October? We have eight acres of sweet clover and would like to know whether it would be better to put it in the silo to feed during the dry season, or if it would be more profitable to feed it as hay? I have all the alfalfa hay I can feed.—H. J. B.

a It is possible to make a good quality of ensilage out of sweet clover; however, greater precautions must be exercised than in making ensilage from corn. When sweet clover is cut at the beginning of the blossom stage, or just before, the plants should be allowed to lie in the field from three to six hours or longer, if the weather is unfavorable, in order that some of the excess moisture may be given off.

If the sweet clover plants are put in the silo immediately after cutting, the ensilage is likely to be juicy, not very palatable, and will not keep so

In case you have a silo and the machinery to handle the sweet clover, and have all the alfalfa hay you need, it would not be a bad idea to put the sweet clover in the silo. On the other hand, it is not usually advisable to grow sweet clover for ensilage when it is possible to grow corn. Furthermore, you would eliminate a lot of work if you allowed your cows to pasture down this sweet clover field.

BOOK ON TEA ROSES.

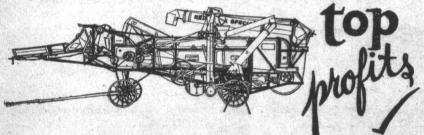
Where can I purchase a book for amateurs that treats on the raising and budding of hybrid tea and other varieties of roses?—E. L. P.

I would recommend the following book, "Roses for all American Climates," by Captain George C. Thomas, Jr., published by the Macmillan Co., New York.

Eleven carloads of lime for immediate delivery have been ordered for Wexford county, and Mr. Ouserhout, not been used, or legumes have not the agricultural agent, says that two more cars will be purchased later in the year.

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SUMMER FALLOWING FOR QUACK

I have six acres that I had all ready to sow to wheat last fall, but the wet weather prevented me from sowing it before it froze. This land contains quack grass. I intend to plant it to corn after plowing it about seven inches deep, and check row it so I can cultivate it both ways, or I will summerfallow it and sow it to wheat, and seed it to a permanent pasture. Please advise as to the best and easiest method to use in this case. Can wheat, treated for smut, be safely fed to the chickens after being put through a fanning mill?—A. T. B.

It is likely that plowing, followed

It is likely that plowing, followed by a summer fallow, will be more successful in eradicating the quack grass than by planting corn. Persistent clean cultivation is the best method to eradicate quack grass.

Wheat treated with the formaldehyde treatment may be safely fed to chickens. There is some risk if the wheat has been treated by the new copper carbonate method.—C. R. Megee.

SEEDING ALFALFA AND SWEET CORN.

Can alfalfa be sown on wheat ground in the spring of the year? If so, how much seed should be sown to the acre? When and how is sweet clover sown? How much seed is sown to the acre? Can a field be prepared and sown in the spring by itself? Can it be cut the first year sown by itself?—J. S.

Many excellent seedings of alfalfa are secured when wheat is used as a nurse crop. I would suggest seeding as early in the spring as the seed can be covered with a spike tooth harrow. It is customary to sow alfalfa at the

It is customary to sow alfalfa at the rate of ten pounds of seed per acre when dependable varieties, such as Grimm and Ontario Variegated are used.

Sweet clover may be sown in wheat by the same method. Fifteen pounds of scarified seed per acre is the customary amount. A field can be seeded in the spring by using sweet clover alone; however, except on very sandy soils just as good results are usually secured when the seeding is made with a small grain crop.

It is usually necessary to clip the field two or three times when the seeding is made alone, due to the fact that weeds make considerable growth. On very fertile soils, well supplied with lime, a crop of hay is usually secured the first year. On average upland and sandy soils, the growth is not usually large enough to warrant cutting for hay.—C. R. Megee,

SELLING STRAW FROM RENTED

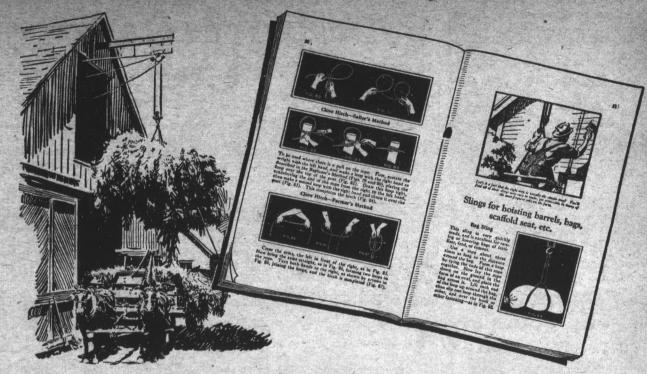
I rented a farm with the agreement that the straw was to stay on the place while I was there. I moved, and the other party sold the straw. Am I entitled to half or pot?—L. H.

Straw can be classed the same as grain, and the tenant has a right to do as he sees fit with his share, unless otherwise agreed upon.

Many farm contracts state that the straw shall remain on the farm for the sole purpose of keeping up soil fertility and furnishing sufficient bedding for stock.

If your landlord signed a contract to the effect of keeping the straw on the farm, and with the intent of disposing of it as soon as lease terminated, you have cause for complaint. On the other hand, the amount of straw on the place at the beginning of lease must be taken into consideration.—F. T. Riddell.

The best results are usually secured when the sweet clover is sown at a time when it can be covered with a spike tooth harrow. When all conditions are favorable, early spring seedings made when the ground is freezing and thawing, are sometimes successful. This method, however, is not quite as dependable. In securing a seeding of sweet clover it is advisable to cover the seed.



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Untwist the strands of the rope. If you find a blue thread marker—the "Blue Heart"—running in the center between the strands, you may be sure that the rope is genuine H. & A. "Blue Heart" Manila Rope.

Spun by rope makers with over half a century's accumulated experience, this thoroughly good rope will wear longer and deliver maximum service in any size, on any job. For the selected fibres of H. & A. "Blue Heart" Manila Rope are drawn, spun, laid, and properly lubricated so as to insure the smooth working of every fibre, yarn, and strand.

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Today the news of goods for sale becomes an indelible record of human achievement.

You may take, for instance, the history of transportation in America and read that extraordinary tale of progress in an unbroken series of advertisements that inform us of each progressive step from the sailings of sloops out of Boston for Philadelphia in the days of Franklin, to the flight of the Air Mail from Mitchell Field to San Francisco in our own day.

You may read the startling story of the revolution in household economy, and the emancipation of the American wife and home-builder in the advertisements of twenty-five years past. But in today's publications you find an even more amazing record—the advertisements of radio electrical appliances, foodstuffs, clothing, medicines—things which have raised our civilization to a plane higher than the

outfits, automobile equipment,

which have raised our civilization to a plane higher than the world has ever known. Do you quite realize that in these advertisements you are examining a contemporary contribution to the recorded history of civilization?

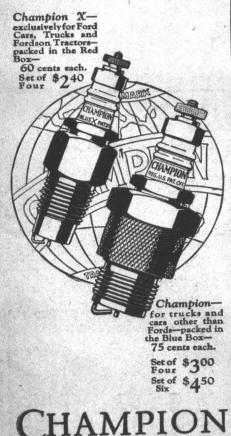
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Your dealer will tell you that the Champion guarantee is the strongest behind any article of automotive equipment. It is your complete assurance that Champion must be the better spark plug. That is why Champion outsells throughout the world two to one. And it is why Champions enjoy an equal preference on the farm for stationary engine, tractor and truck use.

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Spark Plugs



PLAN WORLD AGRICULTURAL CENSUS.

THE countries of the world so far visited, are indicating a willingness to cooperate with the International Institute of Agriculture at Rome in the work of taking the world census of agriculture in 1930, according to L. M. Estabrook, director of the world census, who has been conferring with the department of agriculture at Washington in regard to the part that the United States is to take in this

IMPORTANT RAILROAD DECISION.

HE decision of the interstate com-The decision of the last the value of the property of a railroad for ratemaking purposes shall be based on the reasonable and necessary investment, and not on the cost of reproduction, under the recapture clause of the act of 1920, is held to be of vast importance, not only to the railroads, but to the farming interests and the public generally.

USE NEW DENATURANT.

BEGINNING April 1 the government requires that all industrial alcohol be denatured with "adlehol," a new denaturant that is said to smell like burning oil, and tastes like badly flavored varnish, and there is no way of removing the taste or the smell from the liquor. It is believed that this will limit the bootleggers' supply of intoxicants to the vile, death-dealing product of the illicit still.

SECRETARY FAVORS ARGENTINE ALFALFA SEED.

der discussion in Congress, it ported alfalfa seed not suitable for general purposes must be stained red. announced his determination that, altina is not adapted for agricultural use banks. This group, composed of the

in all the states east of Nebraska and north of the Tennessee and North Carolina lines, it will be permitted to come into this country if at least ten per cent is stained an orange-red color. It is believed by those who have investigated the matter, that this decision will be confusing to the farmers of the northeastern section of the country. They have been told by the dealers that all alfalfa seed, except that stained red, is suitable for seeding. This orange-red stain may lead to deception which will bring serious losses in alfalfa seeding.

FARM LOAN SYSTEM UNDER FIRE.

THE proposed reorganization of the federal farm loan system is fast developing into a certainty. It has started with the resignation of Elmer S. Landes. Former Commissioner Robert A. Cooper and Edward E. Jones are also slated to go. This will leave Commissioner Albert C. Williams, John H. Guill and Lewis H. Pettijohn remaining members of the board.

There are four different groups working toward this reorganization plan. President Coolidge believes that the intermediate credit banks, with their loaning capacity of \$900,000,000, should be utilized in such a way as to meet the needs of the farmers for relief from their present depressed situation. It is understood that the farm loan board as at present constituted, fails to see how this is to be accomplished.

The treasury group wants a firmer control of the farm loan system. They want to make it a unit in the treasury department, directly under the control of Mr. Mellon. Failing in their attempt to legislate the functions of the farm loan board over into the treasury, they are now proposing to do by adminis-W HEN the seed dyeing bill was untration what they were not permitted to do by legislation. This will be acwas distinctly understood that all im- complished by a change in personnel of the board.

The third group is seeking to put Secretary Jardine, however, has just the joint stock land banks out of business by getting men on the farm loan though alfalfa seed grown in Argen- board who are unfriendly to these

farm mortgage bankers, tried two or three years ago to destroy the joint stock land banks by legislation denying them the right to issue tax-free securities. This attack ended in failure.

The fourth group is made up of farmers who want the farm loan system to function more efficiently, but who insist that it shall remain in the farm loan board as now constituted, and be administered by men who are familiar with the needs of agriculture, not by Mr. Mellon and his treasury department officials.

The American Farm Bureau Federation, National Grange and other farm organizations, admit that the present farm loan board is not functioning perfectly, and that there is some disagreement among the members, as is the case with the interstate commerce commission and other administrative boards, but they want the reform made by strengthening the board, not destroying it, or making it a rubberstamp adjunct to the treasury. They are resisting the removal of any of its functions to the treasury, and every move that is being made to weaken or destroy the joint stock land banks.

Under its present management, the federal farm loan board has maintained a high standing in the credit market. Its securities are readily purchased by conservative investors. Claims of treasury officials that larger control by the treasury over the farm loan system to maintain confidence of the investing public in the farm loan bonds are not well founded.

ARMY RATIONS FOR HORSES CHANGED.

THREE years of experimental work in feeding has led the army to prescribe a new ration for horses. Formerly there was one ration for garrison and field. But the investigators found out what every practical farmer well knows, that horses require more food when in active work, than when confined in comparative idleness in the

The grain ration for the draft horse is to be reduced from fourteen to twelve and one-half pounds in garrison, but will be left undisturbed when he takes the field. His hay allowance will be cut from seventeen pounds to fifteen for garrison duty, but he will be given sixteen pounds when on the march. The three and one-third pounds allowance of straw to bed down the draft horse at the garrison, will be increased to five pounds.

It was the conclusion of army experimenters that by keeping the horse comfortable in his stall at all times, and warm in winter, much of his energy can be conserved, so he does not need so much grain.

PROTECTS AMERICAN CROPS.

THE quarantine and health regulations are proving to be as effective agencies for the protection of American farm products in the domestic market against foreign competition as the tariff. Much Canadian milk and cream has been shut out on account of the presence of typhoid in

Importations of shelled corn from Canada is prohibited unless the intificate stating that the corn has been thoroughly inspected by the proper official, and was found to be free from infection with the European corn borer and other insect pests and plant diseases. Importations of shelled corn from Mexico is prohibited on account of the frequent presence of cottonseed in shelled corn from that country, and the attendant risk of such seed carrying the pink boll weevil.

There is a fortune for the man who will invent a hog made up entirely of pork chops; such a hog would fully meet modern city demands.

Humanitarian



DAIRY COOPERATION IN MINNE-SOTA.

(Continued from page 517). ter of all grades was 44.63 cents per pound, (after all marketing costs), as compared with an average price of 44.38 cents for New York Extras, and 42.74 cents for Chicago Extras. Fiftyeight per cent of the butter handled scored 93 or better in 1926, compared with 38 per cent in 1925, and therefore carried the Land 'O Lakes brand. Less than one per cent was ripened, the balance being sweet cream butter. In February of this year, the percentage of 93-score had risen to 71 per cent compared with 62 per cent

Now, it takes quality cream to produce 93-score butter. It takes sweet cream containing less than one-fourth of one per cent acidity to make Land O' Lakes sweet cream butter. Before this organization was formed, the creamery which consistently turned out 92-score butter was perfectly satisfied. But it isn't good enough now; 93 or better is the goal, and 281 of the Land O' Lakes creameries are now in the certified class, as over fifty per cent of their output scores 93 or better.

Ninety-eight per cent of the creameries are what is known as "haul-in" creameries; that, is the farmer hauls in his own cream, sometimes every day, never less frequently than three times a week. Very little trucking is done by these creameries. All cream is graded at the local creamery, and paid for on the basis of quality. This grading was opposed at first but is generally done now and has come about by the premium for quality. The prevailing prices for butter-fat paid patrons of these creameries averaged around forty-eight to fifty cents per pound last year; some paid up to fifty-two cents; very few under forty-seven cents. This average was for cream of all grades. Now compare that with prices paid in other localities, and the value of this quality and merchandising program is quickly apparent. In many centralizer districts, fat prices were fifteen to eighteen cents under Minnesota cooperative prices.

The butter is all assembled by the central organization at its central plant in the Twin Cities, in Duluth or Chicago. There it is inspected by government and state inspectors, secred and graded, packed in cartons if to be shipped direct to the retailers; in tubs if to jobbers or wholesalers. Chain stores and milk companies are the big outlet for printed butter, and ice cream manufacturers who have always used centralized butter are now buying Land O' Lakes quality. The association is cutting out every middleman possible, and working to sell butter through the most direct chan-

Expert fieldmen in each of the eighteen districts into which the local creameries are grouped supervise the standardization as to fat content, color, moisture, and salt. These men promote the quality program in the field, and the inspectors check it at the assembling points. An adequately equipped laboratory in the Twin Cities plant tests every shipment of butter for composition and keeping qualities. The creamery operator who is having trouble can look to this laboratory for help and information.

work of assisting member creameries to properly control composition has resulted in a saving of about one and one half pounds of fat for each 100 pounds of butter sold. This appears a small item to the individual farmer or creamery, but it is an enormous saving on all the butter handled; about \$396,000 last year.

This laboratory is also active in research work. It is discovering new uses for creamery by-products, such as sweet buttermilk powder, skimmilk powder and pure milk fat which is extracted from butter. Naturally

(Continued on page 550).



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Vermont Machine Co., Inc. Bellows Falls, Vermont AGENTS: Some desir able territories en for live user-agents. Write for plan.

Dainians & Camments

IN DEFENSE OF THE OLD DIS-TRICT SCHOOL.

WHILE a high school education should be the heritage of every boy and girl, practice has not revealed the consolidated school plan as an economical means of their attaining it. In one consolidated school district the cost of operating during the year required a tax levy of \$17.35. A man does not have to be possessed of any great amount of wealth to have an assessed valuation of \$5,000. Usually an up-to-date 100-acre farm will be assessed near that figure. With the normal income from a farm of this burdensome, as it comes in addition to a robust highway tax, together with other taxes that net a staggering total.

Possibly that in some sections widely separated from neighboring high schools, the consolidated school plan may best meet the problem of higher education for the rural districts. But its benefits in other districts where the system has been established, is highly questionable. For example, one township was so situated that there was a high school within one and one-half miles of the southwestern border, another within a half mile of the northwest corner, while on the east, a third was no more than two miles away. Not a prospective high school student in the township was more than five miles from a high school. A few years ago, however, two of the neighboring high schools became consolidated districts, and each of these districts included a liberal portion of the west side of the aforesaid township. The result was that taxpayers of this township had heretofore enjoyed excellent educational priviliges at a tax rate ranging between \$2.00 and \$3.00 found themselves facing a school tax levy of \$18 per thousand. For what? Their little children who had flocked to the different district schools in bands of twenty or less, a number efficiently supervised by the district school teacher, were now massed in a huge throng at one building absolutely inadequate in capacity to properly house and instruct so large a number. Robust to whom a two-mile walk would be a benefit physically, now enjoyed the luxury of being taxied to and from the schoolhouse.

One of the chief items of expense in the consolidated plan is the transportation of the children to and from the schoolhouse. The old district schools were so placed as to be in comparatively easy walking distance for each child in the township. The teachers of these district schools were fully as competent to train and instruct the child as the average primary teacher of the high school or consolidated schools. And with usually no more than twenty, frequently less, students under her instruction, it would seem that the teacher of the district school reason it would seem that the district. tages for them

In the old horse and buggy days, or perhaps the horse and cutter days, describes it for fully, for considerable of the school year belonged to the winter months, the graduate of the district school found that negotiating the distance to the nearest high school behind old dobbin and a string of cheery bells a pleasurable activity. Put it up to the ambition and ingenuand not a student with a desire for essee County.

a high school education but what will find a way of attending in this day, when every family has an auto if nothing else.—Greeley Everitt.

THE VOLSTEAD ACT.

N your issue of March 19, I was much interested in Christine Zeck's article on "Prohibition." She says "she loves to debate." Too bad she did not also have an equal love for the truth. She says, "prohibition can never be fully executed." What criminal law is fully enforced? Her first statement is, "conditions in the states are worse now than in 1914." I have lived size, a school tax of \$86.75 is certainly in Michigan since 1855, and know from observation that conditions are much better where I have been. For the last seven years I have been here in the D. U. R. station most of the time, have met hundreds of people, and have seen only six drunks in that time. Before the Volstead Act, it would have been a dull time that you did not see that many in one day. One man was frozen to death here on the street one night previous to 1914.

I spent the month of August, in 1925, traveling; mingling with hundreds of people, and never saw a sign of drunkenness. Is it any wonder we have law violations when we think of the thousands of liquor dealers we had, more than half of them blind pig runners? For there were more blind pigs than there are now.

When we try to dam a stream, then we realize its force. Quoting Harding's speech at Denver, "It is significant that some of the states are enforcing prohibition with less vigor after the Eightenth Amendment was passed." Significant of what? That they were following the lead of the government at Washington.

"Drinking before prohibition was largely done indoors." Yes, and ninety per cent more outdoors than now. have driven an auto since 1914 and have met only one drunken driver in ten years, while in the good old days have had to leave the road more than once for drunken drivers running their horses.

"Drinking among high school scholyoungsters of fifteen or thereabouts, ars." I haven't personally known any such case, but have known, in the good old days, of boys being sent home from school for drunkenness, one who died of tremens before he was twentyfive years old.

Anyone who was in the temperance work before Volstead days and now know the conditions are at least ninety per cent better now.

I would ask people like C. Z., what do you recommend? A return of the saloon, or lie down and say can't, cant? I say, never surrender to the whiskey crowd. They know we havea strangle hold on them, so resort to every subterfuge.

Light wine and beer is only an excuse to sell everything, as was once done, when we had only beer license. would come in closer contact with Everything was sold under that. True, each individual student, and for that we have had many dishonest officials. We have gotten rid of many, too. If school for the primary scholar pos- we will use the same energy to get rid sessed equal, if not superior, advan- of the booze that was used to stamp out the cattle plague, (and this is much worse), or even enforce the game law, or eradicate the corn borer, we will soon have a generation free from intoxication.

Our enemies say, "give us government control." That is just what we are giving them, and it is what makes them squeal. We have it driven into back alleys, low dives, and fashionable immoral dens of vice. Let our motto ity of the individual scholar. Place a be, "no party but for the right, and high school within reasonable distance never say can't."-C. A. Bullock, Gen-

POSTS IN CONCRETE.

I am going to build a post barn with cedar posts. Would it be better to fill up around the posts with cement, or would they decay just as quick as they would in the ground?—C. W. S.

It is usually not desirable to place wooden posts in concrete. Either the post will swell and crack the concrete, or shrink and allow water to run between the concrete and the post. One of the best known methods to preserve timbers placed in the ground is to treat them with creosote, either a brush treatment or open tank treatment. We are sending you a U. S. Bulletin, "The Preservative Treatment of Farm Timbers."—F. E. Fogle, M. S. C.

STAND OF JUNE CLOVER.

I plowed under a crop of June clover seven inches deep one year ago last fall. I put it to wheat. If I plow it this spring again about seven inche., and put it to oats, would I get a catch of clover? Will it seed itself?—S.

In case the June clover crop which you plowed under is fairly well set with mature seed, you would stand a good show of securing a seeding by plowing again at the same depth. If there was not considerable seed plowed under, you would not stand very much of a show. Usually it is better to sow some seed unless you are quite certain that an abundance of seed is plowed under.—C. R. Megee.

SELF-SEEDED SWEET CLOVER— SOY BEANS.

I have a field of sweet clover that went to seed last fall and was not cut. The seeds have all fallen off and are thick on top of ground. Some of them are starting to break open, but others haven't, and are still in the hull. Will they take root in time to make hay this year? I am on a rented farm and want to get the best results possible from entire farm. I have been thinking of plowing shallow and sowing oats this way. I would like to get a crop, and good seeding also. Please advise as to what would be most profitable in this case.—D. J. S.

Only under favorable conditions is

Only under favorable conditions is it possible to secure a crop of hay from sweet clover the same season that the sweet clover is seeded.

It is quite likely that you will secure a good seeding of sweet clover under the conditions you mention; however, your prospects would have been somewhat better had you covered the seed with a spike tooth harrow.

In case you are desirous of a crop of hay this season, I would suggest soy beans or a mixture of oats and peas. Soy beans should be sown the last of May or the first of June, in twenty-eight-inch rows at the rate of thirty-five pounds of seed per acre. The Manchu, Ito San, and Black Eyebrow varieties are well adapted to Michigan conditions. A mixture consisting of a bushel of oats and a bushel of peas sown at the rate of two and one-half bushels per acre frequently should be sown as early in the spring makes a fair hay crop. This mixture as the soil can be prepared.

Soy beans are ready to cut for hay about the first of September, while the oats and peas are ready to cut for hay during mid-summer.—C. R. Megee, Associate Professor of Farm Crops.

The hen-pecked husband who sought the movies as a place of silent entertainment may have to seek his solitude elsewhere. Talking movies in which the simultaneous timing of action and sound is assured, has recently been demonstrated by the General Electric Company. The process involves only the addition of a sound-reproducing apparatus and a loud speaker suitable for auditorium use, and records the picture and sound on the same film. This is different than a Vitaphone, which employs a discrecord.

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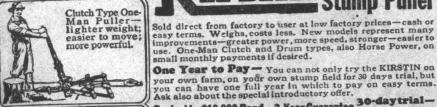
the powerful triple-duty spray kills bugs-controls disease-improves foliage

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Read These Letters: My Kirstin One-Man Stump Puller is certainly a dandy and does more than you claim. Since receiving it, I have given it every test and my Kirstin satisfies me better than I really expected.

I pulled 74 stumps in one day, without help, at a cost of less than 4 cents each. My stumps run up to two feet in diameter. (Signed) J. F. Sherrill, Shulls Mills, N. C.

Our Kirstin One-Man Pullers a wonder. It does our work or one-third the former cost.
George McKinley,
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er, mounted on wheels. Easy to

small monthly payments if desired. One Year to Pay — You can not only try the KIRSTIN on your own farm, on your own stump field for 30 days trial, but you can have one full year in which to pay on easy terms. Ask also about the special introductory offer.

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ORCHARDANDGARDEN

GINSENG.

THE culture of ginseng should be taken up with some caution, as there are several difficulties to be met with. The condition for growth must be about like that in its native habitat the forest. The soil should be one which nearly approaches leaf-mold of the forest for best results, though good crops have been raised in fairly sandy soil containing the proper amount of humus. The soil should be well-drained. It is usually planted in beds, these being covered by an overhead lattice work formed by nailing laths to scantling supported by posts. The bed should be securely enclosed by a wire fence. The plants may be started from seed, or young plants may be bought and set out. Write to the "Ginseng Journal," Arrowsmith, Illinois, for a sample copy in which appears notices of parties who can supply the seed, etc. Seed requires a resting period of eighteen months before it will grow. They are usually stratified in clean sand. The seeds may be broadcast in the beds and raked in, preferably in the fall. The beds should thus be mulched during the winter. Roots are dug when they are five or six years old; profits from the business are, therefore, slow in coming. When one bed is harvested, young roots are put in to replace those taken out.

There are certain diseases affecting ginseng plants, especially a blight. It is necessary to be on the watch-out for this, as it may take the plants very quickly.

There is money in the business for those who are willing to give it the necessary time and attention. Anyone interested in the culture of ginseng should get Government Bulletin No. 551, entitled, "Cultivation of American Ginseng," from Washington, D. C.-H. T. Darlington.

CURRANTS AND GOOSEBERRIES FOR THE HOME GARDEN.

THESE two fruits, favorites with commercial growers in many parts of Michigan, are quite often absent from the home garden. This should not be the case. Considering their ease of culture, and the bountiful yield from a few well-cared-for bushes, they should be found in every home garden in this state. Who does not like currant jelly, and who can turn away from gooseberry pie? Certainly, they are more desirable fresh from one's own garden-so resolve now that you will not let this planting season pass without planting at least enough currants and gooseberries in your garden to supply the family table.

These two small fruits are quite similar in their growing requirements. The ideal condition for both of them is a cool, moist, rich soil, but the absence of such surroundings should not deter anyone from planting enough for home use. As they do well in partial shade, they may be planted among the fruit trees or along the grape row. another Along the garden fence 18 good place for them, but wherever they are planted, arrange it so the bushes may be cultivated. It is possible to grow good crops of these fruits without cultivation but, in that case, the bushes should be mulched quite heavily throughout the growing season. Mulching induces formation of feeding roots near the surface of the soil so the plants are very apt to suffer from want of moisture during prolonged dry periods if artificial watering is not available. All in all, frequent and thorough cultivation will probably prove more satisfactory for Michigan conditions.

One- or two-year-old roots, prefer-

ably the former, should be used. Commercial growers have rather set rules governing all planting operations, but these may be ignored to a certain extent in the home garden if about twenty or twenty-five square feet is allowed for each current or gooseberry plant. Pruning is not an exacting task with either of these fruits. Keeping the plant cut back to ten or twelve vigorous canes will usually be about all the pruning necessary. About the only trouble the home gardener is likely to encounter in growing these fruits, is leaf-eating worms and cane borers. The former may be controlled by spraying or dusting the plants with arsenate of lead. The only way to reach the cane borer is to cut out and burn all infected canes.

In the home garden, quality should be the main consideration in choosing varieties to plant. In gooseberries, Oregon Champion, a cross between the English and American types, is a favorite sort. Downing and Houghton, of true American type, are more dependable in our climate and, for that reason, they are our most popular varieties. White currants never have been popular in this country, but where folks have acquired the taste for fresh currants, the variety called White Grape is a favorite in home gardens. Wilder, London Market and Perfection are favorite red varieties for the home garden.-C. W. Wood.

INJURY BY MICE.

Is there anything that can be done for apple trees that have been girdled by mice?—B. R.

It is generally possible to save trees which have been girdled, by what is known as bridge grafting, but this cannot be done until the latter part of April or early May, when the sap has started.

For bridge-grafting, the cions should be well ripened, and if suitable cions of last year's growth that are sufficiently long for the purpose cannot be secured, it is possible to use some of the two-year-old wood, provided the bark is succulent. The edges of the bark should be cut back to where it is in union with the wood, and cions should be inserted every two or three inches around the trunk.

The cions should be made about two and one-half inches longer than the distance between the edges of the bark, and the ends should be cut wedge-shaped, the side which is to be against the trunk being slightly longer than the other. The bark should then be slit so as to form flaps about as wide as a cion, and the wedge-shaped ends of the cions should be slipped underneath. They should be held in place by means of brads driven through the bark and cion, into the trunk. The cion, itself, will form a slight curve, and will usually be at the center, a half-inch or more away from the wood

Before inserting the cion, it is advisable to have the girdled portion painted with linseed oil and lead paint. avoiding any of the so-called "barn" paints, which usually contain petroleum. When the cions have been firmly tacked into place, the points where the grafts have been inserted, should be covered with grafting wax. It will also be advisable to bank earth around the lower portions of the cions, and if the girdle is not too wide, it may be well to extend it to cover all of the girdled portion.

While the grafting should be delayed until about the first of May, it will be well to trim the edges of the bark and paint the wound at once, and at the same time, if they ground is not frozen, bank the soil about the trunks.-L. R. Taft.

PLAN FOR A PERENNIAL GARDEN.

THERE are several points I keep in mind when planning for the perennial garden. It must not be in the way when plowing the other garden, but must be handy. It must contain all the special crops and the herbs that will be of use, for it is to be permanent and we want it as useful as it can be made. For the horseradish and such crops as salsify and parsnips, which are hardy, and we want often to keep in the garden over winter, but which we plant new each year, we select a place that can be plowed without bothering the rhubarb, asparagus, and the other permanent plantings, yet will not interfere with plowing the other garden, which we often want to do in late fall, or perhaps in early fall, and sow to buckwheat or rye. Then, as these crops are to occupy the same spot for years, we work the ground just as deep as possible and enrich it well. For asparagus and rhubarb we make the soil especially rich, for they are heavy feeders.-L. H. Cobb.

GOLDEN SEAL.

GOLDEN SEAL (Hydrastis canadensis) is a native plant growing naturally in moist woods, in about the same situation as ginseng. Botanically, the plant belongs to the Buttercup family. Since about 1900, this plant has been cultivated more or less for its roots, which are used in medicine. It requires about the same condition of shade as ginseng. In fact, a ginseng bed may be used for growing golden seal. The soil should be six to eight inches deep, loose and rich in humus. It should be renewed annually by the application of a mulch and should have thorough drainage. The beds may be constructed about four feet wide, with eighteen-inch walks between. Propagation is by seeds or cuttings of the rootstock. It is probably best for a beginner, however, to buy young plants. Anyone interested in procuring these should write to the "Ginseng Journal," Arrowsmith, Illi-nois, for a sample copy, giving names of growers. If seeds are used for propagation, they are stratified in sand and leaf mold, as for ginseng. The roots should be gathered in the autumn after the plant has gone to seed. These are yellow, but turn to a yellowish-green on drying, becoming crooked and wrinkly, losing about twothirds of their weight and becoming brittle. Production is at the rate of almost 1,500 pounds of dry roots per acre. After gathering, the roots should be carefully cleaned. The drying should be done very carefully. They should be spread out in a thin layer on a drying frame, and turned several times daily. When thoroughly dry they may be packed in dry sacks for shipment. For more detailed information, the prospective grower should consult Plant Industry Circular 6, U. S. D. A., 1908.—H. T. Darlington.

TOPPED CEDAR TREES.

I have two cedar trees measuring five feet high. About two and a half feet has been cut off the tops of these trees. Can these tops be grafted on the trees?—W. R. C.

I do not think it would be practical to try to graft cedar trees which have been topped. It is possible to graft this variety of tree, but the chances are rather small unless it is properly done, and unless the cuts are fresh.

If you would like to attempt this, I would suggest using the Cleft or Saddle graft, as you would in grafting apple stock. Bind the graft together with raffia. I think, however, that if you will trim your trees back to the nearest side branch, that you will be just as well pleased with the results. When the trees are so trimmed back, the side branches will come up to form new limbs and restore the original shape of the tree. This latter method is by far the best way to handle this situation.-R. F. Kroodsma.

Lets look

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to serve. We place your friendship. your confidence in us, absolutely first.

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At Ward's we make low prices by expert buying in all the markets of the world. We use 60 Million Dollars in Cash to secure low prices for you. We buy in the largest quantities, by the car load, by the thousand dozen, to secure lower-than-market prices.

No merchandising power in the world can buy for you cheaper than Montgomery Ward & Co. No one can sell equal quality at a lower price.

For Fifty-five Years, Ward's has dealt with every customer in the full spirit of the Golden Rule. To give you the largest savings, and the utmost in satisfaction and service.

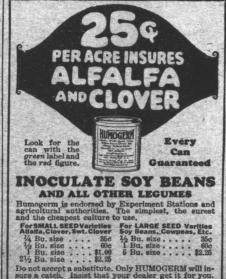
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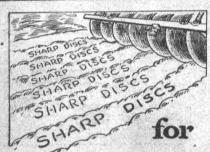
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Fighting The Corn Borer

Authorities have agreed that when disc harrows are used to fight the corn borer the discs should be sharp. A suggested method for fighting the corn borer efficiently is: (1) Cut stalks within 2 inches of the ground; (2) burn stalks or shred and feed them; (3) disc with SHARP discs; (4) plow stubble under cleanly.

The HARROWSHARP will keep a knife edge on your disc. The HARROWSHARP is a universal tool, fitting all makes of disc harrows. It is simple to attach and operate, rrows, It is simple to attach and operate, efficient and automatic and lasts a lifence. Write today for a descriptive folder.

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Free Trial of Proved Swedish **Abortion Treatment**

Famous Foreign Formula quickly relieves badly infested herds. Gives amazing results in cases believed hopeless.

Thousands of American Farmers say the Froberg Swedish Abortion Treatment has saved their herds from destruction. This remarkable treatment has been used with complete success in the big dairy herds of Sweden for many years, and has cleaned up whole districts over there literally rotting with contagious abortion.



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SAVED HIS HERD

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SAVED HIS HERD

David Mohr, Jenison, Michigan says: "Last year I raised only one good calf out of 14 cows bred, all other calves were aborted. I was desperate. I used your C. C. C. treatment. This year with the same herd I have not lost a single calf. It's wonderful. My neighbor lost 3 calves in a few days—I gave him some C. C. C. and it stopped the trouble right there."

The fame of Cow Calf Control (C. C. C.) the name of this treatment has spread from breeder to breeder. Today it is put out only on an absolute binding guarantee that it will stop every case of abortion: that every cow treated will deliver a normal calf, or the treatment cost is refunded. Two reliable banks stand behind our guarantee. You can't lose. C. C. C. is practically 100% successful.

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Write today for full details explaining our free trial offer. Just send your name and address without further obligation to FROBERG REM EDY CO., 13 Lincoln St., Valparaiso, Indiana-

SASSAFRAS FENCE POSTS.

Is sassafras good for fence posts? About how long will they last?—J. M. Sassafras is a good fence post wood. Although it is not to be compared to black locust, osage, orange or catalpa, it is better than most other woods found in the farm woodlot. Sassafras posts last nine or ten years, at least. Their lasting quality depends, to a certain extent, upon the size of the post. The durability part of any wood of heart wood, of course, is to be stock. found in the older and larger size of trees.-R. F. Kroodsma.

BELLADONNA SEED.

What is the best way to harvest belladonna seed, and how can one dispose of it?—C. M. C.

The berries of the belladonna plant are picked when fully mature, and allowed to dry so that the dry pulp may be separated from the seeds. One can get a good bulletin on the handling of belladonna by writing to the U.S. Department of Agriculture, Washington, D. C., and ask for Farmers' Bulletin No. 663.

In regard to disposing of it, we are not quite certain what is meant. If finding a market for it is meant, it

Our Service Department

THROUGH our Service Department, Michigan Farmer readers can get, without charge, information on any subject allied to agriculture and rural life.

All service questions are answered by mail. Therefore, we cannot give service to questions when no name and address is given. Neither can we promise publication, as we print only a very small number of the questions received.

would probably be advisable to write to such a firm as Parke, Davis & Company, of Detroit, or the Lilly Drug Company, of Indianapolis, Indiana. You might also write to the Crude Drug Company, Muskegon, Michigan. Possibly they might handle the seeds.

Since the war there has not been so much of a demand for the seeds of this plant. At present we do not know what the seed is quoted per ounce. During the war it went up to as much as \$5.00 per ounce.—H. T. Darlington.

FORECLOSURE OF MORTGAGE.

B. wishes to rent a farm from A. C. holds a mortgage on the farm. Can C. take the crops from B., in case he forecloses before the lease which B. holds expires? Does C. have a legal right to rental money, instead of A.? Neither A. nor B. will live on the farm.

—E. L. N.

A mortgagor cannot give a lease which shall be valid and extend be- often borne in the same proportion as yond his own title. The mortgagor is the income, that is, the tenant bears entitled to the rent and nessession during the entire period of the equity of lord two-thirds. redemption, and his tenant is protected during that period. After the equity ant to have a garden, and what milk of redemption has expired, the purchaser at the foreclosure sale may Sometimes he receives products, such oust the mortgagor and his tenant by writ of possession.—Rood.

A RENTAL ARRANGEMENT.

Which is the best method of working a farm of 300 acres or more, on shares or partnership with owner of the land? How, or on what conditions, should the owner invest in implements and stock in order to get one-half of the income? The owner is willing to pay half of the hired help. Would it be a fair proposition for each to pay

half of the running expenses and furnish half of the stock and implements, the owner paying for clover seed, and each one paying half of other grain seed, also, the o'ner paying for work done on buildings and fences, in fact, running the faim as if it were his own?—B. A. F.

The one-half share lease should be satisfactory. Under this method of rental each party receives one-half of the revenue from the products produced on the farm. When live stock is kept, the landlord furnishes the land is the heart wood. The largest amount and one-half of the productive live

> The tenant furnishes the labor, the horses, and all, or part, of the tools, and one-half of the productive live stock. Expenses, such as feed, seed, twine, fertilizer and machine hire, are borne equally by both parties. When a complete crew goes with the threshing machine, or other machine hire, it is becoming a common practice for the landlord to bear his share of such expense. Each party bears the taxes and insurance on his own property.--F. T. Riddell.

CRIMINAL LIABILITY OF MINORS.

What is the law in regard to arresting a minor for trapping fur-bearing animals before the season is open?

—R. T.

An infant or an adult without sufficient brain development to know right from wrong, is not liable criminally for his acts. In an ancient case, a girl of thirteen years killed her mistress, and because she hid the body the court held that she had the sense of wrong, and was therefore liable criminally. In another case, a child of nine years killed another and hid himself, and excused the blood on his clothes by saying he had nose bleed, and the court held this way sufficient manifestation of guilt to convict him. More recent cases have established a more lenient doctrine. By the statutes of this state, (Compiled Laws 1915 Section 2011, as amended by Public Acts 1921 No. 16), persons under the age of seventeen years who violate any laws of the state, are declared delinquent children, and jurisdiction against them is given to the probate court.-Rood.

REGULAR RENTAL PLAN.

What are the regular rates on renting farms in Michigan? A man wants to rent his farm to me. He declares it is the rule for the renter to furnish a third of everything and receive just a third. He also declared that it was not the rule for the renter to have a separate garden. I do not believe it is the rule for the renter to furnish one-third of the feed until the crops are grown, but he declares it is.—J. M. M.

The type of lease you refer to is called the landlord's two-third share lease, which provides that the landlord furnishes the land, all personal property, and the tenant furnishes the labor. Expenses such as feed, seed, twine, fertilizer, and machine hire, are such expense and the land third o

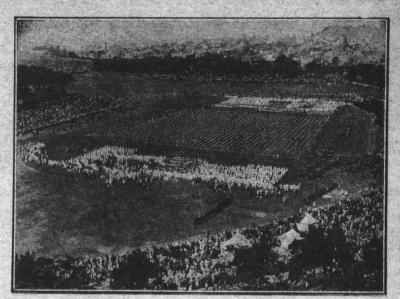
It is the general practice for the tenand eggs he needs for family use. as timber for fuel, in a limited way.

Relative to the feed requirements, it is more satisfactory for the renter to furnish his share of feed from the outset. Arrangements can be made between landlord and tenant to care for this in different ways. For instance, if the landlord has sufficient feed on the premises, he could loan the tenant a share, which could be paid back in money or in feed at the termination of lease .- F. D. Riddell.

WORLD EVENTS IN PICTURES



A modern William Tell, Captain A. H. Hardy, famous trick rifle and revolver shot, shows the California police how to shoot an egg off a man's head.



A gala performance of school boys was given in honor of the Duke and Duchess of York on their recent trip to Rotorua, New Zealand. The Duke and Duchess are touring British possessions.



Huston Ray, pianist, has developed the synchronization of sound waves of music with penetrating rays to demonstrate its healing value.



Joan Zockton, one of England's most beautiful movie stars, is planning to come to U. S.



Secretary of Agriculture Jardine awarded the Calvin Coolidge medal to John Sheepers for developing the Darwin tulip.



This picturesque view of a drill outfit shows how they plant their grain out West. Such a complete outfit gets grain into the ground with considerable rapidity.



Charles A. Linbergh will attempt a New York to Paris non-stop flight in this land monoplane, carrying no radio set, and will compete for the \$25,000 Orteig prize.



Chauncey Depew, president Floriday historical society, sponsors Ponce de Leon celebration.



The two American "good will" flyers, Captain Woolsey and Lieut. Benton, who were killed in a collision in South America, were brought to New York City in full honor.



It's maple sugar time and these kiddies are getting their first lesson in its making.

7HEN Fitzhugh stepped into the waiting room Jim swung around and they bristled.

"What do you want?" Jim growled. Fitzhugh was polite. "I called at the boarding house and learned that Miss Dirkin had left, so I hurried here. I must have a word with her alone."

"Do you want to be left alone with him?" Jim asked.

"No, no, never!" She drew closer to

"That settles it, then," He faced about and looked into a big blue re-

"This settles it," Fitzhugh said grimly. "I mean business and I have no time to waste. I know why you came tion fairly rocked. to this town, Mae, and I know you are leaving because you have found it. I want it-quick."

Miss Dirkin slipped in front of Jim. "Go away, Jim," she said, "I will talk to him alone."

spun her around behind the big coal stove and in the same motion he ducked behind the stove himself. The revolver went off a sixteenth of a second too late and the bullet plunked into the wall exactly in line with where Jim had been standing. Fitzhugh leaped forward and stopped with his back toward us about six feet from our window, pausing to make sure of the next shot, for I don't think he wanted to hit Miss Dirkin. There was a second of dead silence, not more than a second, but it was enough for me to realize that he was planning to murder Jim before our very eyes.

I was too scared to speak, much less to make a motion of any kind. Then, "Here it is," Miss Dirkin's voice cried out behind-the stove, and a little bag fell with a thud in front of Fitzhugh. The necklace! He was going to get away with it after all. That was almost as bad as murder.

But once again I had reckoned without Bill. As Fitzhugh stooped to pick up the bag there was a crash so near my head that I knew I was shot dead. You see, the station was built of brick and Bill had found a loose one and heaved it through the window. He is a good shot, the distance was only a few feet, and the brick struck Fitzhugh square in the small of the back. He was just starting to bend over and Bill's little surprise helped him along, so much so that he landed on his head, tried to save himself, dropped the revolver and sprawled on the floor. In less time than it takes a cat to sneeze Jim was on top of him. In the same breath I saw Miss Dirkin slip from behind the stove, snatch up the little bag and, whirling around in search of a it. on top of the stove.

I saw that much and then I hipered up the revolver and put it in his pock-Fitzhugh was the better man. Still, hugh catch the last car and swing

The Piano Leg Complex

By Merritt P. Allen

Author of "The Wiggins Bond Mystery," "The Spirit of Spencer Spudd"

was getting in some good satisfying no tears were shed. punches. Clinched, they rolled over and over, pulled apart, clinched again. We hipered back into the station and Back and forth, round and round, so lit a lamp, for there were two there, fast and furious that Miss Dirkin though only one had been burning. climbed upon a seat and Bill and I Miss Dirkin was on her knees beside dodged about the stove. The old sta- Jim, who was gasping like a fish out

SUDDENLY they wrenched apart darling!" and stood up, blowing like whales. "Say— Fitzhugh glanced around, saw that both the revolver and necklace were Jim caught her by the shoulders and animal he snatched up a chair, the only one in the room, and rushed at Jim. A hardwood chair in the hands of such a man is bad medicine. Jim

after the first minute, I saw that Jim aboard. That was one parting where

Quite a bit of excitement. Oh, yes. of water.

"Jimmy darling!" she cried. "Jimmy

"Say-it-again."

"Jim darling."

He rolled his eyes and tried to grin, gone, and baring his teeth like a wild but it was hard work, for the wind was all but knocked out of him. "Iwish-he-had hit me-sooner," he panted.

By the time we had explained where



and sidestepping gave Ftzhugh a slashing uppercut across the knuckles of one hand. I wouldn't wonder if it broke his fingers. He let go the chair with that hand, but swinging it in the other heaved it at Jim. There was no chance to dodge it. It struck Jim in the belt and he went over back and down. The poker flew galley-west and smashed the only lighted lamp in the

He had fallen almost at Miss Dirkin's feet and the next second I heard Bill yell in the darkness from that direction, "Keep back, Fitz, old boy, or I'll shoot you dead. Guess I'll try a shot anyway. The revolver roared like thunder in that small bare room. And it roared again. He said later that he got a peach of a thrill standing there over Jim and shooting at the ceiling.

About then I happened to stumble over the brick and picking it up heaved it with all my might at the place where I thought Fitzhugh was. It missed him but hit the stove with a terrific bang just as Bill shot again." It was too much for the nerve of Fitzy, who probably thought the brick was a bullet and that Bill was shooting to kill, so he opened the door and legged "After him!" Bill yelled, and rushsafe place for it, drop it into the urn ing out he fired the rest of the shots at the moon.

I followed as fast as I could and all around into the waiting room to give but ran over the southbound train that Jim a hand if necessary. Bill was had come down the track unnoticed in ahead of me and had already picked the rumpus. As there were no passengers to get off or on, it slowed only et. Boy! that was a fight. Jim was enough to throw out the mail sacks heavier, but he was slower, and there and was away again, but from the opwere times when it looked as though posite side of the track-we saw Fitz-

fell back, caught up the stove poker friend Fitzhugh had gone, Jim was "We had better be able to stand up. going back, hadn't we?" There won't be another train tonight."

Miss Dirkin walked over and put her hand in the urn on the stove. God!" she cried. "It's gone!"

"What is gone?" Jim asked. "The diamond necklace!"

"Diamond necklace!"

"Yes. That was what he wanted to take away from me. I tossed it to him so he wouldn't shoot you, but before he could pick it up the fight began. I recovered it and put it in the urn so that, if he killed us both, he might not find it after all. He must have seen me. He must have grabbed it when the light went out, and taken it with him." She didn't cry, just stood there staring at us.

"But what were you doing with a diamond necklace?" Jim asked.

She looked at the floor. "I can't tell you now, Jim. I can't explain now. It wasn't mine. It was Mrs. Gale's. was taking it back to her. Oh, Jim,

I'm ruined! Why wasn't I killed!"
"Just a minute," Bill said, taking a hand. "Do you know that Mrs. Gale is at Deacon Brown's?"

"What Mrs. Gale?"

"Mrs Addie Gale of Boston." "What! In this town-now."

"She pulled in last night."

it?". She gave him a look.

"If I had known it half an hour

ago!" Miss Dirkin almost reeled. "We were on our way to tell you." "You? What do you know about

window. "You see, us detectives

some time. We know about the necklace and the piano leg and all that."

"Good heavens!" Miss Dirkin's voice

was a croak.

"Mrs. Gale knows you are here, has seen you on the street, and is planning to have a talk with you in the morning. She will let you off easy if you give her a chance. As things have turned out, you better go and see her

"I never can face her without the necklace.

"It's your only chance. She'll have you arrested in the morning if you

"She will anyway now," Miss Dirkin said in a pitiful little voice. "I may as well go.'

"That's the ticket," Bill told her cheerfully. "You ride with me in Fitzhugh's sleigh and Speck will go along with Jim and explain a few things to

So in a sort of daze Jim threw in the mail sacks and Miss Dirkin's suit cases and we started back up the hill. I told Jim what I knew and he said hardly a word. We left both teams at the store and walked over to the deacon's, where the lighted windows showed that Cousin Addie was still holding forth. Bill led the way in without knocking, and when the others saw Miss Dirkin they nearly fell out of their chairs.

"Mae," Cousin Addie said in a cool voice, standing up, "this is unex-

"Yes, Mrs. Gale." The girl looked like a ghost.

"Did you come to see me "

"Yes, Mrs. Gale."

Cousin Addie gave her a long look. "I can guess the reason," she said. "As these people know what has happened, you may speak before them." She raised her eyebrows in Jim's direction.

"Oh, allow me," the deacon hurried up. "Mr. Bell, this is Mrs. Gale." They bowed solemn as two owls.

"I especially want him to stay," Miss Dirkin said, and Jim moved closer to

It was as quiet in that room as midnight in a graveyard. Then Miss Dirkin said, "Mrs. Gale, I took your necklace." There was a little gasp here and there. "But I did not steal it," she added.

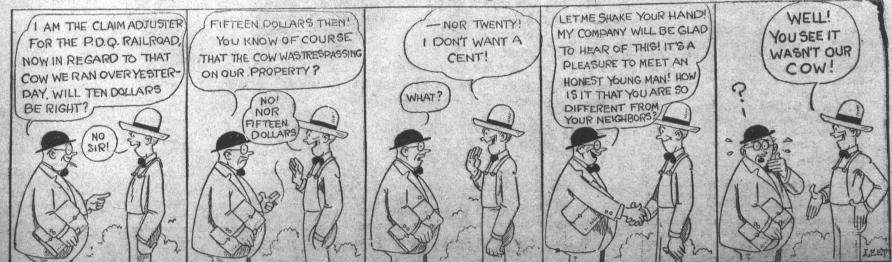
"Please explain the difference," Cousin Addie said cooly.

"I will try to. I thought I was in love with Claude. He pretended to be greatly interested in jewels, he said they were his passion, and in some way, I don't know how, he persuaded me to open the safe and show him your necklace. It was unwise for you to trust me with the combination.'

"Extremely," said Cousin Addie. "He asked to see the necklace for only a minute. Girls are foolish when they think they are in love. While he was looking at it we heard someone coming. I was frightened for I was doing wrong. He was nearest the door BILL threw his chest almost out the and I told him to put the necklace in the safe and close the safe door. I have been working on your case for supposed that he did until you told

Activities of Al Acres-Al Says That it Must Have Come From the Other Side of the Track.

Frank R. Leet



learned that instead of putting the wind it up in style? I've got what is This is due to the decline in other necklace in the safe he had dropped it called artistic instinct." Which may commodities. into one of the hollow legs of the be true for all I know about it. piano that was being packed. He said that he intended to return it to the safe later, but I know now that he intended to steal it. Before he had a chance to remove it from the piano leg and shipped it to your cousin in this town." Gasps and all sorts of exclama- morning to ask if there is any insanity tions from the audience. Pats on the in your family." back for the Boy Detectives who had guessed so close.

Miss Dirkin continued in a steady "He tried to get the necklace out of the freight car but could not. I knew the police suspected me, but laughing? still I dared not tell you. I thought if I could get the necklace and return it to you, you would forgive me."

"Indeed I would have done so," said Cousin Addie.

would have been arrested when I step- past five years. ped off the train if Jim-Mr. Bell had not protected me."

"It was love at first sight," he said.

"Oh, was it?" Her voice was twenty below zero with a north wind.

"Yes, ma'am, and it still is."

"Let me finish, Jim,". Miss Dirkin said, flushing. "I have been searching for that piano leg ever since. Claude, who has been hanging around here for some time told me, wrote me, how to identify it, and I found it on a piano belonging to a Mrs. La France. I suppose it was exchanged in some way. Tonight I entered the La France home and took the necklace out of the piano leg." Everybody caught their breath and held it. "I started to take it to you in the city, as I did not know you were here, but Claude overtook me at the depot and held me up with a revolver. There was a terrible fight between him and Jim. He got the worst of it and hopped a train. But when he was gone we found that in the dark the light had been smashed in the fight-he had found and taken the necklace." She stopped, then went on, "That is the truth. Now arrest me."

"Shall I summon the sheriff?" the deacon leaned over and whispered to Cousin Addie.

"You sit-still and let me think," she snapped.

"Telegraph ahead and nab the butler," Cash burst out, "I'll do it. What's his name?"

Cousin Addie didn't seem to hear. She was looking at Miss Dirkin and tears were in her eyes. "Oh, Mae," she said, "if you had trusted me and come to me at first how gladly I would have forgiven you. But now!"

"I don't expect you to," Miss Dirkin said quietly.

"It would be so easy if you had brought me the necklace."

"Is that a whiz?" Bill suddenly piped up from a corner. "A what?" Cousin Addie looked at

"Would everything be all right if

you had your necklace back again?" "Yes. Certainly."

Bill swaggered into the light, scowling like a pirate, the big blue revolver in one hand. Mrs. Brown squealed and Rupert turned pale.

"Mercy, William, where did you get that gun?" Ma asked.

He tossed her a glance out of the corner of his eye. "Oh," he said, sort of careless, "I took that away from the butler."

He stepped nearer to the lamp so everyone could surely see him; and from a pocket he took a little bag and laid it in Cousin Addie's lap. "There's your necklace," he said, and walked slowly, you might say strutted, back to his corner.

"During the fight I picked it out of

THE END.

SYMPTOMS.

"Pardon me, professor, but last posal of marriage. I have called this

"There must be."

LAUGHTER WILL OUT.

Willie-"Yes'm. I was laughing in my sleeve, but didn't know there was a hole in it."

Over 500 new hospitals have been "I came here as a music teacher and established in the United States in the

While the general level of farm pric-Jim looked Cousin Addie in the eye. es of agricultural products on March 15 was 126 per cent of the pre-war fossil fish 400,000,000 years old.

me that the necklace was gone. I was the urn on the stove," he told me on level, as compared with 127 per cent nearly wild. I should have told you at our way home that night. "Yes, I sup on February 15, and 140 per cent earonce, but I was afraid to. I went to pose it was mean not to tell Miss Dir-lier, the index of purchasing power of the butler. He was in a rage, and I kin sooner, but she's happy enough farm products in terms of other comlearned more than he intended me to now to make up. What's the use, modities advanced from eighty-one in Perhaps he was a little drunk, too. I Speck, of handling a case if you can't January to eighty-two in February.

Sweet clover is a biennial, or twoyear crop, producing a comparatively small amount of growth the first year, and an abundance of growth the second. Seed is formed the second year, the packers had taken the piano away night your daughter accepted my pro. and this terminates the growth of the

> A drop of water may contain as many as 100 forms of life visible under a powerful microscope.

Portions of Egyptian mummies were Teacher-"Willie, was that you used by medieval physicians in concocting fantastic medicines.

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The vacuum cleaner is being used to groom horses in stables of Norway and Sweden.

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Adventures of the Brown

Family-By John Francis Case

The Lone Oak Stands Sentinel

sent.

see that, after all, we the huntin' and fishin' appeals to me." shouldn't give too much credit estate agents. They probably wouldn't dreds of miles into another part of have said anything about a mystery at the House of the Lone Oak in their advertising, for mysteries don't usually make sales. But old Captain Pettibone had put it in his will that if the mystery or mystery. Maybe she wantheirs sold the place whoever bought must know just what might be ex-

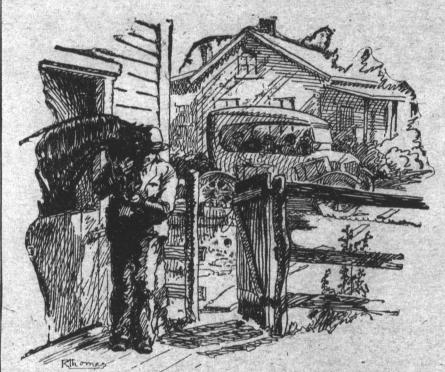
All this the Brown family found out after they got to know Boggs & Thurman, but none of that was told in the letter sent to Beth. It had said, "If you are afraid of pirates you will not Boggs & Thurman. They'd figured be interested in buying the House of it would take a day's showing and afraid and wish to seek the treasure chest which goes with the farm, read heirs were pleased, too, I reckon. And on." So there were Father and Moth- in the beginning the Brown's were er Brown and Hal and Beth all clustered together as Beth read the letter. is, unless it was the ghost of old Mary and Little Joe hadn't begun to be interested then. But they soon

Now wasn't that proof that Henry to Boggs & Thurman, the real Brown is impractical? Going off hunthe state to a farm that he'd never seen, and one with a mystery at that But Mother Brown didn't say anything. Maybe it was the desire for a home, ed Father Brown to invest the money before he bought another race horse. Perhaps it was the girlish desire for

adventure. Anyway, the money was

And nobody was more surprised when they got the check than was the Lone Oak. But if you are not palavering to sell anyone. And here was the cash in hand. The Pettibone pleased, so everyone was happy. That Captain Pettibone.

It didn't take so very long for the Brown family to move. They didn't "There are not any real pirates that lave much to sell, and after shipping we know of," continued the letter, "but he household goods they just climbed



Off on the Road to Adventure But Old Moll is Left Behind. Father Brown Bids Her Goodbye.

Captain Pettibone, who lived on the into the family flivver and headed insisted that he had driven a pirate off and that he and others may come would follow in due time, for a home back. Personally, we don't believe there is anything to this pirate theory. And, being honest, we might as well be waiting for 'em, and so it proved. tell you that we doubt if there is any chest of gold.

"Captain Pettibone's heirs certainly whoever buys the farm and the House of the Lone Oak gets whatever is inquire the way. "The House of the found in the house or on the land. Lone Oak, you say?" inquired the long ago if folks weren't afraid of the stands guard over a house of mystery. mystery. The land is good. There's And you are going there tonight? hunting and fishing, there's good and see for yourself."

Now, of course, that very same letter had been written to a lot of people but none had thrilled to it like Beth Brown. Hal, too, began to claim that he'd wanted to write all the time. But it was Father Brown who decided what would be done. "We'll just send on the thousand dollars," he said, "and cinch the place. Save the cost of a trip to investigate. I don't take any Modernist—"Airplane poisoning, One stock in that pirate and gold stuff, but drop is sufficient."

farm, and who once followed the sea, south. Moll, the old race mare that was the proud mother of Flying Fox, couldn't be a home without old Moll. Shipped by express, the goods should

With the weather pleasant, the trip was enjoyable, but their curiosity whetted, the Brown's traveled "in don't think there is gold on the farm high." The new place was to be a or they wouldn't want to sell. But home, a home of their very own. the will says there is a chest of gold Mother Brown tingled with the anticiand we will put into the deed that pation of ownership. Their journey almost ended, the Brown's stopped to place is cheap at three thou- man. "Friend, there's something sinsand dollars and would have been sold ister even about that old tree that Stay here and I will tell you all I neighbors. We invite you to come know. You will not dare to stay there if you go." Now wasn't that a fine prospect for home owners who had paid their money down?

(Continued next week).

MODERN POISONING

Modernist-"Have you heard of the latest poisoning?"

Bystander-"No, what is it?"

FARMERS EXPLOSIVES

SHORT BALLOT IS URGED BY SCHOOL OF CITIZENSHIP.

system. If we revert to the old con- control. vention system, the women would play the part of the "parsley 'round the sored by the Michigan League of Wom- by agriculture. en Voters and the Michigan State College in East Lansing last week. The perfect and improve it. The primary is located 2,496 feet above sea level. has tended to weaken the lesser party, has not eliminated boss control, but it Progress is being made toward estabant point in election.

Pollock would, through a pre-primary would reach around the world. It is convention or conference, develop a estimated that the cost of the project shorter ballot and would also adopt will be \$2,500,000. the use of the voting machine.

Cost, convenience, and the elimination for chance for fraud in registra- the English language today, but at Caswell, of the Michigan State Col. terms. lege. He strongly advocated a permanent system of registration.

Why is it that our courts are in a bad way today? Because the judges of our courts are elected instead of appointed, was the answer Mr. William Lovett, secretary of the Detroit Citizens' League gave to this question, in his speech on "The Overworked Voter." Mr. Lovett recommended that the judges be appointed for life, or elected for a long term. In accord with Professor Pollock's views, Mr. Lovett strongly recommended the short ballot to produce a more intelligent and representative vote of the people.

On Friday, Mrs. Frank Kinch, a master home-maker from Huron county, discussed, "Some Lessons Learned," before the School. Mrs. Kinch is the vice-president of the Michigan League of Women Voters, and has done active civic work in her community. She will have charge of the Citizenship Day program of the Farm Women's Institute, to be held at the college the last of July in connection with the American Country Life Conference.

GUERNSEY BREEDERS ORGANIZE IN NEWAYGO.

THE Newaygo County Guernsey Breeders' Association was organ-ized March 22, when the following officers were elected: President, E. E. Price, of Fremont; vice-president, Ford Goyings, of White Cloud; secretarytreasurer, Harry Stroven, of Fremont; directors, W. T. Evoy, of White Cloud; H. W. Frye, of Sand Lake.

The newly organized association has undertaken a number of worth while projects for the year, which include the cooperative use and ownership of better sires, the use of the cow testing association as a basis for their breeding operations and herd improvement, and encouraging boys and girls to join calf clubs.

Newaygo county is a new Guernsey community, but old in dairying. was in Newaygo county that the first cow testing association in the United states was organized in 1905. Mr. Stroven, secretary of the local breeders' association, has had his herd of grade and pure-bred Guernseys in cow testing association work for more than ten years. W. D. Burrington, state field secretary, attended the meeting.

RADIO BRIEFS.

M INNEAPOLIS is the first city in the United States to adopt an ordinance regulating radio broadcasting and reception. The ordinance was

passed about two weeks before the President signed the radio bill. They figured that even though the radio bill THE women voters of the state have did become a law, no effective action more power with the primary sys- could be obtained before a year or tem of election, than they could ever more. In the meantime they could hope to have by the old convention have radio matters in their city under

At the twelfth annual convention of ham." This is the statement made by the Illinois Agricultural Association, a Prof. James K. Pollock, Jr., of the resolution was adopted to take immedi-University of Michigan before the ate steps to establish a radio broadthree-day school of citizenship spon- casting station owned and controlled

The new station WWNC, owned and primary system has not cured all of operated by the Ashville Chamber of the old election ills, but Professor Pol- Commerce, claims to be the highest lock believes we should retain it and radio station east of the Rockies. It

gives the voters an opportunity to ex- lishing a 30,610-mile broadcasting chain ercise their power at the most import- by the British Broadcasting Company. Such a chain would govern the relay To perfect the primary, Professor through nine or more stations that

There are over a million words in tion was discussed by Professor J. C. least two-fifths are strictly scientific

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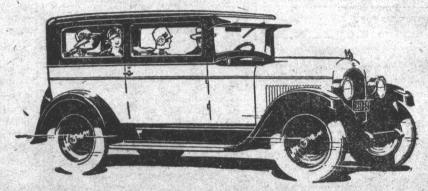
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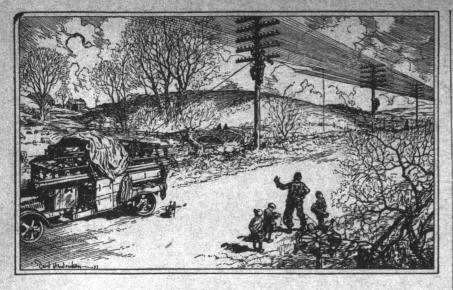
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Communication for a Growing Nation

An Advertisement of the American Telephone and Telegraph Company

THE first telephone call was made from one room to another in the same

building. The first advance provided to serve its business in telephony made possible conversations from one point to another in the same town or community. The dream of the founders of the Bell Telephone System, however, was that through it, all the separate communities might some day be interconnected to form a nation-wide community.

Such a community for speech by telephone has now become a reality, and the year-by-year growth in the number of long distance telephone calls shows how rapidly it is developing. This super-neighborhood, extending from town to town and state to state, has grown as the means of communication have been

and social needs.

This growth is strikingly shown by the extension of long distance telephone facilities, In 1925, for additions to the long distance-telephone lines, there was expended \$37,000,000. In 1926, \$61,000,000. During 1927 and the three following years, extensions are planned on a still greater scale, including each year about two thousand miles of long distance cable. These millions will be expended on long distance telephone lines to meet the nation's growth and their use will help to further growth.

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The Lawrence-Williams Co. Cleveland, Ohio

Woman's Interests

Another Leap to Leisure

By Floris Culver Thompson

junk heap and build one just exactly as we want it! But perhaps we simply can't afford to, this spring, although at the same time we can't afford not to make the best of what we have. If Henry Ford thinks farming a twentyday occupation, he makes no reference your rearrangement problem. to woman's part in it. Still, no engineer would lay out a work-shop that permitted the miles of useless steps fostered by a large, old-fashioned The automobile has revolukitchen. tionized industry in the last fifteen years, while we homemakers have been slow, slow to save ourselves through centuries of wasted time and

What's the Purpose of the Kitchen? Why do we spend three-fourths of our working hours in that one room? The answer takes the shape of one thousand meals a year, of three inevitable meals a day. Not only the preparation of food takes place in the kitchen, but also the clearing away after meals. Surely we should make use of every step-saving and time-saving



Little Betty Lucas, of Tustin, Mich., Believes in Having Plenty of Fresh Water to Drink.

arrangement possible in so frequented a place.

To group compactly the equipment pertaining to preparation of meals is one step ahead. Another leap to leisure is to arrange conveniently the equipment used in clearance of dining room and kitchen. For instance, supplies are fetched from cupboard or ice-WOOL Blankets, Batting box, prepared at the sink or nearby table, cooked at the stove, dished up at the stove or nearby table, and carried to the dining room to be served. Clearly, this would indicate that we should arrange from left to right. (so far as is possible), the refrigerator, cupboard or pantry or cabinet, sink with drain boards, or table, and stove.

> The Second Process is Reversed. The second process-clearing away and dish washing—a right to left operation, calls for putting food away, for scraping and stacking soiled dishes on right-hand drain board of sink, washing of dishes in sink, drying or draining of dishes on left-hand drain board, and the final putting away of usnes into the cuppoard.

> Obviously, the distance from dining room table to sink and cupboard should not be greater than is absolutely necessary. In fact, the walking area of the kitchen should not be large-a big kitchen is a total loss in every respect. It makes extra work, and also allows space for operations other than the sanitary preparation and clearing away of meals. However, even in a large kitchen, the housekeeper can conveniently arrange her compact working centers regardless of a far corner or two left empty, where, indeed, the children may play.

Of course, you couldn't pick up a

HERE comes a time to all of us whole pantry and fetch it to the table when we would like to toss an near the sink! But in such a case, inconvenient old kitchen into the you could, at least keep in neat jars, smaller amounts of the supplies used daily, such as flour, sugar, salt, soda, tea, coffee, on an open shelf over the table or on the table.

Call Kitchen Table to Your Rescue. Let your kitchen table help solve might make a double-decker of the table itself and put a shelf below the top to accommodate the sugar, flour, a bowl, or two, and so forth. Furthermore, the table on casters or small wheels is a great step saver, in carrying supplies and dishes, and in serving dinner. While we're improving our kitchen table, let's have it a convenient height (even if we have to raise it). All working surfaces for people five feet three inches or more in height should be thirty-five inches from the floor. Near the preparation center should be hung in easy reach, the small equipment used daily-egg beater, potato masher, strainer, a sauce pan or two, and even a small aluminum mixing bowl and spoon. It requires less initiative to stir up a quick cake if a reach of the hand brings part of the equipment to you. Of course, towels, dish cloths and dish mop, soaps, and scouring agents, should be within instant touch. Nor must we forget the children's drinking cups, placed low for their convenience. Good organization, too, to keep one drawer or shelf for only the paper napkins, oiled paper, cord, scissors, and other small effects pertaining to the school lunch.

Casually enough, we have taken sinks for granted, although we know to our sorrow that scarcely one-third of our women have that convenience. Running water intake and a drain outlet, at least, are a housekeeper's rightful heritage and she shall have them ere long. For our progressive American husbands are not like the French Canadian who, all winter long, daily chopped a hole in the ice on the lake in order to get water for his big family. Unfortunately, the lake was half a mile from the farm house. When asked why on earth he didn't put in a pump into the kitchen, he waved his arm toward the lake.

"Out there," he said, "is a well that never runs dry!"

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single and double stitch. the ship ladder stitch, the Bulgarian stitch, the Queen Anne stitch, the gobelin stitch, and many, many more. If so the instructions for making them, and also the directions for making punch work and Wallachian

work are given in our book, "Complete Course in Embroidery," price twentyfive cents. Address your orders to the Stamped Goods Department, Michigan Farmer, Detroit, Michigan.

There were over 12,000 suicides in the registration area of the United States in 1924.

ECONOMIZING ON FURNITURE POLISH.

ALL housewives know how soon a large bottle of furniture polish will disappear when used in the usual way I have found a way of making it last much longer. Instead of putting the polish directly onto a soft cloth, try preparing a number of them at once, my way. Cut enough pieces of cheesecloth of the desired size-I prefer eighteen inches square to fill a twoquart fruit jar when folded closely. Then pour enough polish in the jar to fill it to the depth of half an inch. Roll the jar on its sides so as to get the inside well coated with the polish. Then pack the cloths in, put on the lid, and leave it a few days before using the cloths. When ready to use you will find the dust cloths well saturated with the polish, and when treated this way, one cloth will last a long time, and the others will be just as good as the first, when you bring them out, even though they have been left in the closed jar for months .-- Mrs. P.

THE CURRENT.

If so my life must Be like unto a river, And flow within unyielding banks Of customs Time has fused into con-

ventions, Grant, then, at least these waters may

be clear,
And cool, and to the passers-by, refreshing;
Carrying in unclouded depths
No dregs of hatred, scorn—
No treacherous rocks
To read the fragile shell of Friend-

To treacherous rocks
To rend the fragile shell of Friendship's bark;
Yet purposeful of current,
Not slow meandering, nor lazily con-

tent, No stagnant bayous, winding channels Leading blindly on and on; Not yet rushing forward in a heedless

torrent;
But of some constant service unto
they who dwell
Upon the grassy slope and call me
friend.

FINE FOR THE HANDS.

THE temptation to use harsh soaps and pumices in an effort to keep the hands clean is one to which the busy housewife often yields. I find corn meal the best and most harmless scourer for the hands. Dip your toilet soap into water, then into the meal. Wet your hands and lather well with the mealy soap, rubbing hard before washing off. With soap and meal on your nail-brush, scrub the nails thoroughly. This treatment will leave your hands smooth as satin and perfectly grimeless. Thoroughly dry them, then rub well with your favorite hand lotion. Simply glycerine and rose-water, half and half, answers best for me. Not all skins are alike in the degree of oiliness possessed. A little experimenting will enable one to find the most soothing lotion for her individual use.-J. E. T.

GIVE CHIVES A CHANCE.

P LANT a package of chives this spring if you haven't already started these tasty bits. I use them (just cut the tops off) chopped fine with salad dressing for sandwiches.

Also chopped fine for salads and soups, and notice how pleasing the onion flavor is without the strong, stomach-upsetting qualities of onion.

ard fall you of pans of the chive roots and have them growing in the house all winter. They can be cut repeatedly for winter use, and after one pan seems to be getting run out, you just put it down in the cellar and use the other one.

They take up no more room than a house plan, are always green, and furnish untold delight for the palate.-Mrs. L. F.

onions, my family calls for steak smothered in green peppers. I fry the peppers the same as onion, and serve with the steak.-Mrs. F. S. C.

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The summer was intensely hot, the babes exacting. I did all the work for five, except heavy laundry, with no conveniences except my Red Star Oil Stove, with its wonderful Lively Heat burners.

"Yet with the country air and my Red Star I was enabled not only to carry on, but I found my health restored by the first snow."

(Signed) MRS. L. A. PFLEGER.

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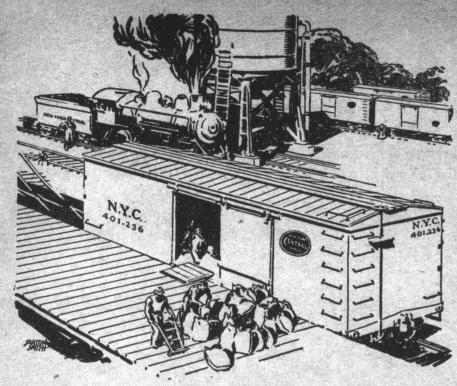
A flock laid 1364 eggs in a year when oyster shell was kept constantly before it. Before, it had only laid 693 eggs a year. That's 671 PROFIT EGGS ... extra eggs" that make your poultry pay you BIG MONEY! You can do it! Thousands of poultrymen are doing it and Reef Brand costs only a few cents a year for each hen. Builds bone and healthy, strong bodies as well as shell for MORE EGGS.

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Get our special combined offer on chicks and brooder stoves. We hatch thirteen varieties. Fifty Thousand chicks per week. Valuable free book on Chicks and Poultry with each order of \$10 or more. Huber's Reliable Hatchery, East High Street, FOSTORIA, OHIO

For Easter Company

Plan Menu in Advance and Have Time to Enjoy Your Guests

has the meal well-planned the day The suggested menu below preparation. The vegetables could all necessary, add more water." be prepared on Saturday, and the celery, chicken en casserole, and parsnips cooked on Sunday morning. The cheese balls for the salad could be made in advance and the dessert prepared up to the point of adding the are baking, the rest of the meal could shredded lettuce in a nest. be prepared for the table.

Cream of Celery Soup Chicken en Casserole

Baked Potatoes au Gratin Panfried Parsnips Rolls Easter Salad Apple Delight

Pond Lily Cake Coffee Cream of Celery Soup 1 bunch celery 3 cups milk 1 tb. grated onion

Dice stalks and leaves of celery and cook in very little water until soft. Mix fat and flour in a sauce pan over a low fire, add half the milk and cook slowly until thick. Add the other half of the milk to the celery pulp that has been pressed through a sieve, together with grated onion and seasoning. Cook for ten minutes and add the cream sauce mixture and cook for ten min-

Baked Potatoes au Gratin.

If the potatoes are brushed with fat before baking, the skins will be more tender. As they come from the oven, cut quickly across the top; squeeze gently in the hand; add a teaspoonful of grated cheese, and a dash of pap- ly. Sift dry ingredients. Add dry inrika. Serve at once.

Chicken en Casserole.

Prepare the fowl as for roasting. It whites and bake in layers or in a may or may not be stuffed. After sprinkling with salt and pepper, roll forty minutes.

HERE'S sure to be company for in flour and pan-fry until brown. Place Easter. But Mother need not in casserole together with half cup stay home from church if she rice; two medium onions sliced; two small carrots; one cup green beans. Add one or two cups of water. Cover would save much of the last minute and cook until the bird is tender. If

Panfried Parsnips.

Partially cook the parsnips; roll in beaten egg, and then in bread crumbs. Brown in butter.

Easter Salad.

Individual salads are more attraceggs. While the potatoes and dessert tive. On each salad plate, arrange To one cup of grated cheese, add two tablespoonsful of minced olives, and one tablespoonful of broken nut meats. Blend with mayonnaise and form into tiny eggs about an inch in diameter. Place three or four of these in the center of each lettuce nest, sprinkle with a teaspoonful of minced pimento or a dash of paprika, dot with mayonnaise.

Apple Delight.

2 cups rich apple sauce 4 th. powdered sugar ½ cup jelly or jam ½ cup nut meats 3 eggs, beaten separately 1 cup whipped cream

Spread the applesauce, together with the jam, over the bottom of a greased baking dish. Beat egg yolks with three tablespoonsful of sugar. Fold in the whites. Spread over the fruit and dust with the rest of the sugar. Bake in a slow oven for thirty minutes, and serve with the whipped cream or maple dessert sauce.

Pond Lily Cake.

6 tb. shortening
1 cup sugar
2 cups flour
3 tsp. baking powder 2-3 cup milk 3 egg whites, beaten Salt, flavoring

Cream shortening. Add sugar slowgredients and milk to first mixture alternately. Fold in the beaten egg

Turk's head pan. A moderate oven for



Twenty Tales from Timberland

The Easter Bunny and Easter Chick Find Their Basket-No. 15

PEP, peep! Pick, pick! Peep, peep," came from within the little white house. "Oh, dearie me, will I ever get out of here?"
All was silent for awhile. Then, "pick, pick," louder than ever, and the Easter Chick poked his little yellow bill through the tiny hole that he had made in the side of his house.

"Oh, hum, hi, ho, hum," yawned the Easter Chick, then he stretched himself. But he stretched too far, for he broke his white house right in two.

"Peep, peep," said the Easter Chick, as he stepped forth into the sunshine.



The Easter Bunny and Easter Chick Trotted Off in Search of their Easter Basket.

He was very hungry, so he started to scratch for a worm in the pile of sand

scratch for a worm in the pile of sand nearby.

Soon Bunny came hopping that way.

"Good morning, and who are you?"
said the Bunny to the Chick.

"I am the Easter Chick," answered the Chick. "Pray tell me, who are you?"

"Howdy do, Easter Chick," answered the Bunny. "I am Easter Bunny from South Timberland."

"Greetings to you, Easter Bunny," chirped the Chick, "and where are you hopping to?"

"To find an Easter basket," answered the Easter Bunny. "Won't you come

"To find an Easter basket," answered the Easter Bunny. "Won't you come along?"

"Thanks to you, I'll come," replied the Easter Chick. So off they started in search of an Easter basket. Now, the Easter Bunny hopped much faster than the Easter Chick's short legs could carry him. But when the Easter Chick grew tired, Bunny carried him on his back. Together they searched all the afternoon but no Easter basket could they find. At last the sun went to sleep behind the hills and it grew dark. The Easter Bunny and the Easter Chick were very tired and sleepy.

"We'll make a bed in this pile of leaves and perhaps we can find a basket in the morning," suggested the Easter Bunny. The Easter Chick agreed and they were soon off to Slumberland. The sun was shining brightly when they awoke.

"Peep, peep," yawned the Easter Chick.

"Happy Easter" greeted the Easter

"Happy Easter," greeted the Easter Bunny, "but come, we must be on our way to find our basket." He stretched himself, rubbed his sleepy eyes, and looked about.

looked about.

"Hip, hooray," he shouted, for he had just discovered that he and the Easter Chick had gone to sleep in a pretty Easter Basket the night before and didn't know it.

"Sh, sh!" whispered the Easter Bunny to the Easter Chick. "Don't move. We've found our Easter Basket. And I hear someone coming! Listen!"

Was it you, my little reader, that the Easter Bunny heard? Did you find an Easter Chick and an Easter Bunny in your Easter Basket?

Without books God is silent, justice dormant, natural science at a standstill, philosophy lame, letters dumb, and all things involved in darkness. -Bartholin.

PREVENTING CHICK LOSSES.

A LL the chicks that are lost do not die from disease. Water pails and tanks should not be placed where the young chicks can roost on the edges and reach down for the water. Often they slip into the water and soon drown. Do not place brood coops on soil where sudden rain storms may drain into the coops, forming puddles in which the hen-brooded chicks are soaked and chilled. Board floors in all brood coops will usually prevent such

Never build flimsy shelters for the chicks during good weather. At the first severe wind and rain storm, the chicks may gather in such shelters. If they blow down it means a lot of crushed and drowned chicks. It is better to have the flocks accustomed to seeking shelter in strongly built colony houses that are safe in most wind and rain storms.

Be careful about placing brood coops or colony houses near wheat or oatfields. Early in the morning the chicks may wander into the deep growth and become lost, wet and chilled. Such chicks may never have strength enough to return to the protection of the mother-hen or the brooder stove.

Dense growths of grass or grain may harbor weasels. If poultry range near such places, it pays best to beat through the field occasionally with a dog and gun and see if any dead chicks are found which show the marks of a weasel. A well-trained dog on a range is of great help in scaring away such pests.

Small chicks should not be permitted to go under colony houses. They may gather in heaps under the houses and become chilled by cold winds.-R. G. Kirby.

MITES DECREASE EGG PRODUC-TION.

THIS is a good time to destroy the mites. Too often the farmer neglects the controlling of the mites in the winter. A great deal of blood and vitality is taken by mites, and this decreases the vigor of the hen. If the hen is not healthy and contented, she cannot be expected to lay very many

The mites may be successfully controlled in winter or summer by spraying the cracks and crevices of the poultry house with kerosene. This seems to dry quickly and is highly desirable during the cold weather. The mites are easily killed by coming in contact with the strong, penetrating kerosene. If one does not wish to use kerosene, he may apply any two or may be found on the liver, intestines three per cent solution of ordinary stock dip.

After the poultry house has been determine avian tuberculosis thoroughly cleaned and sprayed, the roosts and dropping boards should be may be located by means of a tuberpainted with a wood preservative, such as ordinary crank case oil, which in a valuable flock of poultry, it pays tends to prevent the reappearance of the mites.

It is a good idea to destroy the lice while fighting the mites. This job is successfully done by sprinkling the hen with sodium fluoride. A pinch may be put on the head, under both wings, and rubbed around the vent. It readily destroys the lice and does not injure the hen.-H. Q. Holt.

POULTRY FEEDS.

C OMMERCIAL poultry feeds differ widely in make-up and cost, due to the uses to which they are to be put, and the materials that go into them, says the chemist at the Experiment Station at Geneva, New York, where more than 250 samples of poultry feeds sold in New York were examined recently.

laying mashes, others as chick-grow- hatching.

ing mashes, chick starters, special chick meals, chick fattening mashes, and scratch feeds, says this authority. All contained ingredients which were believed to be best suited to gain the desired results for which the feed was sold. The cost of the different feeds depended largely on the cost of these ingredients.

"Laying mashes usually contain wheat bran, wheat middlings, linseed oil meal, corn gluten feed, corn meal, ground oats, alfalfa meal, meat scrap, fish meal, and dried buttermilk feed, not all in any one mixture, of course, but various combinations of these materials," says the station chemist. Such mixtures sell for \$40 to \$100 per ton, and average about \$62 per ton.

"Chick growing mashes contain about the same ingredients as the laying mashes, except that oatmeal or rolled oat groats are often used in place of ground oats. Also, they usually contain bone meal or lime in the form of calcium carbonate, or both. The laying mashes contain the most protein, fat, and fiber of any of the poultry feeds, while the growing mashes contain somewhat smaller amounts of these nutrients, and the chick starters still less.

"A typical formula for a chick starter is dried buttermilk feed, oatmeal, wheat middlings, corn meal, wheat meal, and bone meal. Buttermilk feed and meat scrap are the two ingredients of poultry feeds that add most to the cost of the mixtures."

HEN CANNOT BREATHE.

My hens have difficulty breathing. They open their mouths and squawk, and cannot get their breath. They live only about two hours after they get this way.—F. M.

Examine the throat of the birds that gape and struggle for breath. The entrance to the windpipe may be filled with yellow, cheesy canker which shuts off the breath. This can often be removed with a bit of sharp stick or a knife blade. Birds breathe hard because of bronchitis and pneumonia. This is usually caused by exposure to cold, windy or rainy weather, or a lack of ventilation in the poultry house. Sometimes bits of foreign material, like straw, potato peelings, or other objects may become lodged in a bird's throat.

SYMPTOMS OF TUBERCULOSIS.

How can I tell if fowls have tuber-culosis? Is there any test besides the symptoms?—S. V.

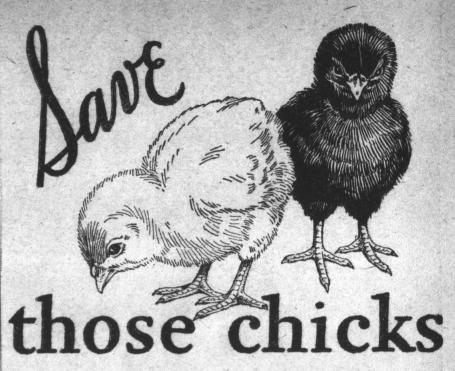
The general symptoms of avian tuberculosis are great loss of weight and wasting of the muscles, combined with lameness and swelling of the joints. The yellowish or whitish tubercles or spleen. A laboratory examination is considered necessary to definitely

The infected and non-infected birds culin test. If tuberculosis is suspected to consult a veterinarian and have him carry out the tuberculin test, or make other recommendations based on the apparent physical condition of the

FERTILITY OF DUCK EGGS.

How long would it be that duck ducks? drake with the ducks? We had a drake from last fall, and late / found out it would not mate, so we bought another drake, and in three days noticed he was all right. I heard it was two weeks. Is this so?—N. O.

It will be safest to wait ten days to two weeks before saving the eggs for hatching, in order to insure a fair per cent of fertile eggs, or eliminate the effect of previous matings. There is ho definite period that will apply in all cases. Duck raisers usually avoid the loss of many infertile eggs by mating up the breeding stock a month or Many mixtures could be classified as more before eggs are to be saved for



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for Catalog



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MILAN HATCHERY, Box 4, Milan, Michigan



April Poultry Notes

By R. G. Kirby

broilers have not yet reached the mar-

a year old when they are marketed. Large cities like Detroit, Cleveland for capon meat for banquets, and many diners who learn to appreciate capons at a good banquet, later desire such a bird for special occasions on the home table.

Caponize Good Birds.

Another home market for capons which has scarcely been touched, is the farm home. Many farmers who do not expect to market capons will receive an increased pleasure in their business if they caponize a few cockerels for home use next winter. They will help out with the winter meat bill and prove a pleasant change from other kinds of poultry.

When the cockerels are sold for broilers, there may be a few culls not owns. good enough to sell or ship. Do not caponize them in an effort to improve their quality. Good capons cannot be developed from cull chicks. The capon needs a long growing season, and the are the type of birds which will use their feed to the best advantage over that long period of development.

Use Large Breeds.

Leghorn cockerels lack the frame to make nice capons. The American, Asiatic and English breeds are all suitable for caponizing. The Barred Plymouth Rock is a very popular breed for caponizing, because the sexes can be separated at an early age. The single mated Barred Rocks soon show that the light plumage denotes cockerels, while the dark feathers indicate pullets. If you have ever tried to separate the sexes in a flock of White Wyandottes or Reds, before the masculine and feminine heads are apparent, you realize the difficulty of guessing right every time. And the best time for caponizing is when the cockerels are only six to ten weeks old, and weigh from a pound and a half to two pounds.

Some poultrymen report very good results from crossing Cornish Game seems possible for most poultrymen. males with Barred Rock females. The Cornish carry a large meaty breast, and have plenty of vigor, while the Barred Rock ranks high for meat production.

How to Start.

Before attempting to caponize large numbers of cockerels, it is well to remember that they require a long growspecial market is necessary to dispose have not been educated to order capons at high prices.

poultry meat, and not risk much money or feed, try caponizing a few for or not. home use. If the business proves satisfactory, it can later be developed. Possibly some of the egg customers can be induced to buy capons. Someorders.

Moving the colony houses to clean

DOULTRYMEN who wish to capon- soil is a great help in reducing the ize cockerels should remember danger of disease among the chicks. that the best market for capons Some poultrymen state that chicks is from January 15 to March 1. This should be raised on the same soil only reduces the competition from other once in four years. This is undoubtkinds of poultry meat. The old hens edly true, if you wish to raise chicks have been marketed and the early under ideal conditions. But few poultrymen have the land to move their ket. The capons should be of good colony houses so that the chicks will weight, and between nine months and not touch the different locations more than once in four years.

On most poultry or general farms and Chicago furnish the best market there is only about so much acreage for capons. But in smaller cities, like near enough to the farm and poultry Lansing, there is an increasing demand buildings to enable the birds to receive the proper protection of the owner. You cannot place colony houses eighty rods or more from the house and barn without risking great losses from thieves, stray dogs, weasels, skunks and hawks. You cannot give the brooder fires proper attention during storms, if they are located a long distance from the house.

Rotate Ranges.

Many poultrymen find that ten or twenty acres is all they can buy or look after when poultry is their specialty, and much money is needed for buildings and equipment. It is obvious that the young stock cannot be moved beyond the limits of the land a man

So it is my opinion that raising chicks on the same ground only once in four years, is ideal, but, under practical farm conditions most of us cannot do it. The land can be kept in a best of the vigorous young cockerels clover sod, or plowed and limed and planted to other crops. Part of the range can be plowed and planted in corn. This turns up clean soil and plows under a lot of the old soil. It provides a shady range for the chicks.

Other Measures.

Every effort can be made to keep old stock from ranging on the same soil the chicks use. Poultry manure can be scattered as far as possible from the poultry buildings, and used on garden soil which is fenced away from the poultry. Most of us will have to depend on zero weather in winter. and sunshine and plowing to help in keeping the soil as clean as possible for the chicks. I do not think it necto become discouraged if essary enough new soil is not available to permit raising chicks on the same ground only once in four years. I admit that would be an ideal arrangement. Moving the colony houses once or twice a year, and owning about two large chick ranges, is about all that

HENS EAT PAPER.

Please tell me why chickens eat paper. The inside of the roosting pen is lined with heavy building paper and the chickens keep picking at it. Does the paper harm the chickens?—O. E.

Hens have a tendency to peck holes ing season, plenty of feed, and good in wall-board, building paper, or any housing during the fall and winter. A kind of paper composition used on the walls of poultry houses where it can of many capons at high prices. Most be reached by the birds. The matelocal markets have their largest de- rial seems to contain mineral elements mand for plump hens, and the buyers which they crave. Part of the pecking and tearing is probable due to the curiosity of the hens to try out any ma-But if you wish to enjoy some fine terial which they can break loose, whether they have an appetite for it

The habit is not due to any great deficiency in the ration, as hens which receive everything they need, have been known to tear up wall-board times local dealers are glad to obtain linings in poultry houses. Painting the a source of supply to fill banquet material with lime-sulphur, asphalt paint, or any material with a bad taste, may help in preventing the de-



For White Diarrhea

In few hours, disease is stopped and sick chicks full of pep.

It's easy to stop chicks dying from white diarrhea. All you need do is drop an Avicol tablet in the drinking

drop an Avicol tablet in the drinking water. Thousands of poultry raisers, year after year, raise nealy every chick by this simple precaution. Mrs. E. E. Franks. Ramsdell. Tex., writes: "I was losing 10 to 15 chicks a day before I received the Avicol. I haven't lost one since.

A free test of Avicol will show how easily white diarrhea is prevented and stopped. The way it makes sick chicks lively and healthy, in just a few hours, is positively amazing. If you have never tried Avicol, write for a free sample, or send 50c for a full-sized package, to Burrell-Dugger Co., 843 Postal Station Bldg.. Indiamapolis, Ind.' It costs nothing to try the 50c package, because Avicol is guaranteed to do the work or money refunded. But if you prefer, try the free sample first.



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S, C. White Leghorns, Tancred strain. Michigan Accredited. Keep 1700 on our own farm. Hatch our own eggs and from 3 neighbors. All our own stock. Use 200 to 326 (egg) Pedigreed males only. Blood-tested for 3 successive years. Quality chicks. Prices right. Descriptive circular before buying.

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Get your fluffy little "Money Makers" from the largest hatchery in Livingston County. Our two Smith Incubators have a capacity of 25,000 healthy baby chicks per week. Our flocks are culled, leg-banded and final inspected by state men only. Prices reasonable. 100% live delivery.

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ER WHITE LEGHORNS We breed then bigger. Reason-New free illustrated eatalog fully describes and will help you succeed, Scad for it. A. AUCHEK, Gebies, Mich. LARGER WHITE LEGHORNS

struction. The only great harm that may come from the habit, aside from the loss of the material, is the cropbound condition that results if hens pack their crops with paper or any other indigestible material.

POISONING FROM BLUE OINT-MENT.

After using blue ointment for chicken lice, would fowls be good to eat, as the ointment is very poisonous?—C. A.

The blue ointment used for lice is usually mixed with equal parts of vaseline, and a piece about the size of a pea is placed beneath the vent, while a small smear is placed under each wing. I have no record of any person being poisoned by eating poultry which has been treated with blue ointment, but the material is very poisonous and I would not wish to use it on birds that were to be marketed, or used for meat within a few days.

The fact that the bird receives only a small quantity of blue ointment, and the skin is carefully washed before the bird is cooked, probably safe-guards consumers of the meat. We only treat the birds that are to be retained for at least a few weeks. hen is small in weight compared with a person, and if much of the poison affected the bird internally, it would doubtless be a very unsafe means of combatting lice.

KEEP THE PULLETS GROWING.

A PULLET will not necessarily make a good hen, even though she has the best of ancestry behind her. A whole lot depends upon the manner of development. In order to make good layers, we should aim to develop heavy appetites in the growing birds. The heavy-laying hen is always the one able to eat and assimilate a large amount of food. While this trait is partly inherited, it is largely developed. The way to do it is by developing large crop capacity in the growing pullets. This is done by forcing them to eat bulky food during the stages of development. Free range, with plenty of shade and green grass, are essential conditions in the development of the future layer. May and June are important months with the early-hatched birds. Make them consume large quantities of mash, and feed the hard grain sparingly. This distends the crop, which condition will be found mighty useful next winter when it is necessary that the hen consume enough feed in about eight hours to last her twenty-four. The reason hens often fail to lay during the short days is because they cannot consume sufficient food during the short hours of daylight. Develop the appetite and the stamina now, and you will be well repaid later-C. H. Chesley.

ASHES FOR HENS.

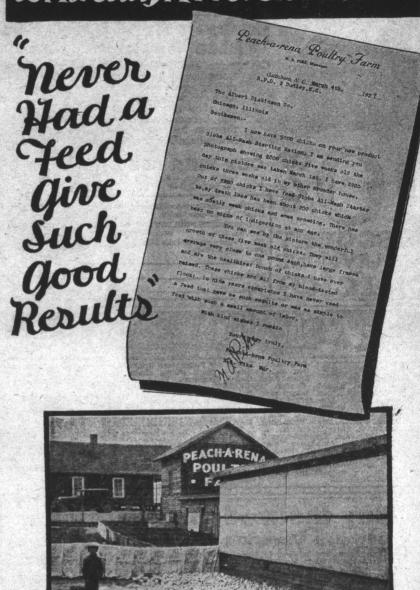
Blood Tested for the Past Three Years
Krueper Holterman Barred Rocks \$15.00.
Selected Barred Rocks \$13.00.
R | Park

a metal bushel basket to cool, and later place them in the dust boxes in the laying houses. The hens seem to find from well developed, strong, healthy layers. S. C. Eng. White and Brown Legand eat quite a lot of the material, as and eat quite a lot of the material, as well as dusting in it. It seems to cause no trouble, and helps out in providing minerals for the flocks. When zeeland, Mich. MICHIGAN ACCREDITED CLASS A CHICKS bits of mineral matter in the ashes, SEND NO MONEY OF SILVER CHICKS thrown into the stove, that must also add some bone-building material to the ashes.

Wood ashes contain quite a lot of Thite Wyandottee 16c; Iye, and there are cases where hens Silver Lake, Ind. have developed a bad crop condition from eating damp wood ashes. Of course, charcoal is fine for the birds, but I would not wish to give them access to a lot of wood ashes while confined in winter quarters.

> Tuna fish caught in Japan weigh as much as 750 pounds.

GLOBE ALL-MASH Is Already A Proven Success



Mr. Pike brings out in his letter several points of interest to those who keep poultry for profit:



- 1. Exceptionally low mortality.
- Rapid growth.
- 3. Unusual health and vigor.
- 4. Simple to feed-less labor. 5. Best results in nine years.
- This is only one of the hundreds of letters that are now. coming in from poultrymen who have already tested Dickinson's Globe "All-Mash" Rations. However, you don't have to take anyone's word for it.

Try Globe "All-Mash" Rations yourself and judge by your

own results. A Booklet on

Chick Raising free on request. The Albert Dickinson Co.

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LANSING STATE SHOW—1st old pen; 1st young pen; 1st hen, 2d cock; 3d cockeret.

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PRICES: Our prices are reasonable. Our chicks are good. Write today. WASHTENAW HATCHERY. 2501 Geddes Road, ANN ARBOR, MICH,



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MILAN HATCHERY, Box 4, Milan, Michigan



April Poultry Notes

By R. G. Kirby

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HENS EAT PAPER.

Please tell me why chickens eat paper. The inside of the roosting pen is lined with heavy building paper and

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drop an Avicol tablet in the drinking water. Thousands of poultry raisers, year after year, raise nealy every chick by this simple precaution. Mrs. E. E. Franks. Ramsdell, Tex., writes: "I was losing 10 to 15 chicks a day before I received the Avicol. I haven't lost one since.

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Silver Lake Egg Farm Box M Silver Lake, Ind. have developed a bad crop condition



LARGER WHITE LEGHORNS We breed them bigger. Reasonably priced profit-makers for the farmer and egg producer. Now free illustrated catalog fully described them and will help you succeed. Send for it. A. W. WAUCHEK, Gobles, Mich.

struction. The only great harm that may come from the habit, aside from the loss of the material, is the cropbound condition that results if hens pack their crops with paper or any other indigestible material.

POISONING FROM BLUE OINT-MENT.

After using blue ointment for chicken lice, would fowls be good to eat, as the ointment is very poisonous?—C. A.

The blue ointment used for lice is usually mixed with equal parts of vaseline, and a piece about the size of a pea is placed beneath the vent, while a small smear is placed under each wing. I have no record of any person being poisoned by eating poultry which has been treated with blue ointment, but the material is very poisonous and I would not wish to use it on birds that were to be marketed, or used for meat within a few days.

The fact that the bird receives only a small quantity of blue ointment, and the skin is carefully washed before the bird is cooked, probably safeguards consumers of the meat. We More Egg Money only treat the birds that are to be retained for at least a few weeks. A hen is small in weight compared with a person, and if much of the poison 3 Months' Trial 10c
Colored art chicken pictures suitable for framing FREE every other issue. Send stamps or coin today at our risk.

KEEP THE PULLETS GROWING.

A PULLET will not necessarily make a good hen, even though she has the best of ancestry behind her. A whole lot depends upon the manner of development. In order to make good layers, we should aim to develop heavy appetites in the growing birds. The heavy-laying hen is always the one able to eat and assimilate a large amount of food. While this trait is partly inherited, it is largely develop-Baby Chix and Pullets ed. The way to do it is by developing large crop capacity in the growing puled. The way to do it is by developing S. C. White Leghorns, Tancred strain. Michigan Accredited. Keep 1700 on our own farm. Hatch our own eggs and from 3 neighbors. Allour own stock. Use 200 to 326 (egg) Pedigreed males only. Blood-tested for 3 successive years. Quality chicks. Prices right. Descriptive circular before buying. the future layer. May and June are important months with the early-hatch-Fairview Profit Producing Strains ed birds. Make them consume large quantities of mash, and feed the hard grain sparingly. This distends the crop, which condition will be found mighty useful next winter when it is necessary that the hen consume enough feed in about eight hours to last her twenty-four. The reason hens often fail to lay during the short days is because they cannot consume suffi-Get your fluffy little "Money Makers" from the targest hatchery in Livingston County. Our two Smith Incubators have a capacity of 25,000 healthy bady daylight. Develop the appetite and the chicks per week. Our flocks are culled, leg-handed and final inspected by state men only. Prices reasonable. 100% live delivery. paid later-C. H. Chesley.

ASHES FOR HENS.

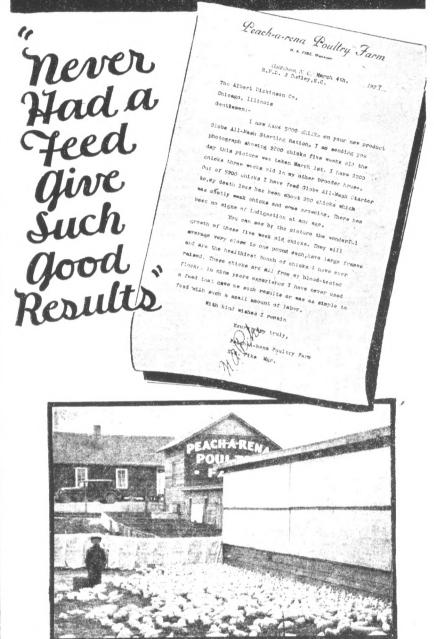
Would it be harmful to my chickens Blood Tested for the Past Three Years if I let them have coal ashes to dust Krueper Holterman Barred Rocks \$15.00. R. I. Reds harmful?—J. G. \$15.00. White Larbara \$10.00.

We empty our hard coal ashes into a metal bushel basket to cool, and later place them in the dust boxes in the MICHIGAN ACCREDITED CLASS A CHICKS bits of mineral matter in the ashes, from well developed, strong, healthy layers. S. C. Eng. White and Brown Leghorns; Sheppard's Anconas; R. I. Reds and Assorted Chicks. No money down. Pay a week before chicks are shipped. 100% live delivery. Postpaid. Catalogue free. THE BOS HATCHERY, R. 2-M, ZEELAND, MICH. the bones from the table scraps are SEND NO MONEY SILVER CHICKS thrown into the stove, that must also add some bone-building material to the

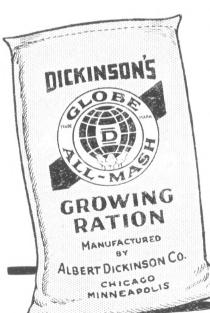
nave developed a bad crop condition from eating damp wood ashes. Of course, charcoal is fine for the state fields. but I would not wish to give them access to a lot of wood ashes while confined in winter quarters.

Tuna fish caught in Japan weigh as

GLOBE ALL-MASH Is Already A Proven Success



Mr. Pike brings out in his letter several points of interest to those who keep poultry for profit:



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- 4. Simple to feed-less labor.
- 5. Best results in nine years.

This is only one of the hundreds of letters that are now coming in from poultrymen who have already tested Dickinson's Globe "All-Mash" Rations. However, you don't have to take anyone's word for it. Try Globe "All-Mash" Rations yourself and judge by your own results. A Booklet on Chick Raising free on request.

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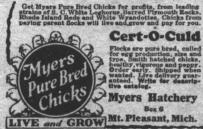
twenty-third year, 95,000 capacity. 80% of our ks are already sold for the season, showing we satisfied customers and they come back year year.



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The Great Confession

Our Weekly Sermon-By N. A. McGune

Man is?" asked the Savior one day. said one of the twelve. Modern men of administrations, but the same Lord." are answering the question in the The very fact that your confession, or same way. If anyone is disposed to doubt this, I submit the following list mine, is what helps me. If it were of books about Christ, on sale by one book firm-not the entire list, as we help me so much. "To every man is must have room for something else, this week, but enough to give an idea of what moderns are thinking about this Galilean Teacher: "The Five Portraits of Jesus," "The Spiritual Pilgrimage of Jesus," "The Creative Work of Jesus," "Jesus, Man of Genius," "The Anthology of Jesus," "The Unfathomable Christ," "The Teaching of

ciples of Jesus," "Our "Lord's Earthly Life," "Jesus, Lover of authors of these "Thou art the Christ."

his work in the morning, in a factory. His foreman was the most profane and obscene man in the company's employ. He vomited his filth on every employe the old rake met him and said, "How's everything this morning, my boy?" The young man had been to church the night before, and he could not think of anything but the sermon just then. Said he, "I know that Jesus Christ came into the world to save sinners." The boss sat down and began to cry. Simple confession has an effect that nothing else has. No doubt Peter felt more a man that day, when he had expressed the deepest feeling of his soul.

Literature is full of the confessions of men and women to Christ. Some of these men paid Him tributes with their lips and not with their lives, but many backed the words with deeds. Said Jean Paul Friedrich Richter, "The despised Jew, being the mightiest among the lowly, and the lowliest among the mighty, and having with His pierced hands lifted the gates of empires off their hinges, and turned the current of history into a new channel, still governs the ages." Said Byron, "If ever God was man, or man was God, Jesus Christ was both." Said Charles Lamb, "If Shakespeare should come in that door, we would all rise, but if Jesus came in, we would all kneel." Said Phillips Brooks, "He was the only sinless man of history and that alone makes Him the most saving fact the world has ever seen." Said our own Whittier,

"O Lord and Master of us all,

What e'er our name or sign, We own thy sway, we hear thy call, We test our lives by thine."

Now, confession is different from controversy. Men have debated over religion for many centuries, and have generated more heat than light. Sects and schisms have been the children of controversy, but confession is the child of experience. It is a cross between experience and love. Confesyou are lost (though people have sometimes taught that), but it means that my experience fits my nature as your will fit you. The sun is always the hymn and bring the paper to me." same old friend. But in one place he another he grows a wheat field, in an- "Willie Smith."

W HO do men say that the Son of other a stately garden of palms. "There are diversities of gifts, but the "Thou art the Christ," same spirit, and there are differences your experience is different from exactly the same as mine, it would not given the manifestation of the spirit to profit withal."

But Peter thought that the terrific ordeal to which his Friend and Teacher said He was to undergo at Jerusalem was unthinkable, and he said so, emphatically. But the Teacher was more emphatic than he. "Get out of my sight, you Satan!" That is the Jesus," "The Christ of Faith and the way the Master of temptation over-Jesus of History," "The Lord of came temptation. When He was cer-Thought," "The Practice of the Printain as to the right course, He shut out all other possibilities. Once decided, it was decided. He closed His mind, and it is the sign of a powerful mind to be able to do this. Probably men." Each of the everyone can do it in greater or less degree, with persistent practice. Linstudies is saying, coln is a good example. He set out to save the Union. He would yield this and that, to attain the main end. As The confession he said, he would free all the slaves of Christ has a if necessary, or part of the slaves, or singularly cleansing effect on the mind. none. But the one great objective It seems to wash the soul, as the rain was to save the Union. On that his washes the air. One day, a friend of mind was closed. When to close the mine, then a lad of eighteen, went to mind? When to make an irrevocable decision? "The way of man is not in himself. It is not in man that walketh to direct his steps." How did Christ know when to make an unyielding dewho did not measure up to his desires. cision? What about those nights As the young man entered the shop spent alone with God? What of those getting up at daybreak, to pray? If He required the frequent connecting up with the Divine batteries, needing recharging, so to speak, much more do we. "More things are wrought by prayer than this world dreams of."

> SUNDAY SCHOOL LESSON FOR-APRIL 17.

SUBJECT:-Peter's Great Confession. Matthew 16:13 to 24. GOLDEN TEXT:-Matthew 16:16.

"By the Way"

A NEW RADIO DISEASE.

Caller-"Why do you tune in on new stations so often?"

Radioite-"Because, I am a fresh air flend."

A GIVE AWAY.

Margaret is only seven years old, but sometimes quite naughty. On one occasion her mother, hoping to be particularly impressive, said, "Don't you know that if you keep on doing naughty things, your children will be naughty, too?"

Margaret dimpled, and cried triumphantly, "Oh, mother, now you've given yourself away."

HER HYMN.

Miss Teachem, wishing to arouse the interest of her Sunday School class. asked them each to write down the name of their favorite hymn.

All the scholars bent their heads sion does not mean that you must over pencil and paper for a few minhave the same experience I have, or utes, and then handed in their slips; that is to say, all except Mary.

"Come, Mary," the teacher said. "write down the name of your favorite

Mary wrote and, with downcast eyes makes a warm spot behind the barn and flaming cheeks, handed the teachwhere chickens and cows gather, in er a slip of paper bearing the words,

THE BRONCHOSCOPE.

capped doctor who skillfully operates It has disposed of many such troubles. an instrument known as a bronchoscope, which goes right down into the mysterious recesses of your bronchial tubes and shows just what is there.

The instrument was invented as an aid to vision, as the "scope" in its name, indicates, but the skillful user

My nose bleeds very easily. I have hemorrhages on the slightest provocation and feel weak and tired, with irregular pulse. What do you think is the cause?—L. S. D. makes it serve many purposes.

a half. According to her numerous nose specialist for treatment. doctors, she had asthma, asthmatic bronchitis, tuberculosis, and several other things. The doctor inserted his bronchoscope, pulled out an iron staple that came within range of his vision, and the child got well in a few weeks. A doctor told me to rub vaseline on A boy of eleven who had his tonsils removed, failed to get well. Cough, fever, and general ill health followed. X-Ray examination showed a tooth with the problem of the state of the problem of th bronchoscope, pulled out an iron staple deep in the right bronchus, evidently inhaled while unconscious from the anesthetic The bronchoscope was put in place, out came the tooth, and recovery followed at once In the bronchoscope clinics operated by Doctor Jackson, over two hundred cases of serious lung trouble, previously diagnosed as asthma, bronchitis or tuberculosis have been found to be due to foreign bodies which the patient (usually a child) has in some manner sucked into the bronchial tubes Most of the objects are metallic In several antiseptic offer most hope. cases in which trouble has followed a tonsil operation, it has been found that some small section of the operating gear, or perhaps a loose tooth, has slipped out of sight into the depths below. When the X-Ray shows their relative position some wizard of the bronchoscope can locate and remove them through his magic tube

If a child who develops asthma or an abscess of the lungs, without any known cause, (and still more if it follows closely upon a throat operation), I should not be satisfied with the diagnosis until careful search has been made by X-Ray pictures. And if they showed suspicious shadows I should manage in some way to get the child to one of the few doctors trained in operating the bronchoscope.

CHRONIC CONSTIPATION.

Will you please tell me what is the best treatment for chronic constipa-tion, in the shape of foods and bending exercises, or any treatment you think advisable? Am sixty years old and have been troubled more or less most of my life.—D. F. S.

Foods that have in them a certain amount of "roughage" are good to cure constipation. The leafy vegetables, such as spinach, chard, lettuce and cauliflower, are good examples. Bran is good, and may be eaten like a breakfast food, or cooked into bran biscuits, using equal parts of bran and flour. Be sure to drink plenty of water.

HAS FLOATING KIDNEY.

I have floating kidney on my left side, palpitation of heart, diseased ov-aries, and granular womb. I am ner-vous and irritable. I live on a farm and have lots to do.-G. R.

It may be that your symptoms are not really so formidable as they seem. Floating kidney frequently happens without producing any bad symptoms. The palpitation of the heart may be merely functional—a result of the two remaining conditions. Try the rest

cure for a good time—taking as much S PEAKING of wizards and wizard- someone else do the work. Possibly ry, everyone conjures up a pic- the pelvic condition. ry, everyone conjures up a pic the pelvic conditions are such as to ture of his own. To me, nowadays, demand a surgical operation, but it is the wizard is a white-gowned, white- worth while to try the rest cure first.

NOSE BLEEDS.

I think you have an ulcerated place I think the leader in this work is in the nose, probably in the membrane Doctor Chevalier Jackson, of Philadel- of the septum. If the nasal hemorrphia. I have just been looking at pic- hages are frequent they would account tures showing some of his miracles. A for your tired, weak feeling, and also girl of four had been ill for a year and for the irregular pulse. Go to a good

HAIR IS FALLING OUT.

trouble for at least ten years. I am thirty-two years old.—A. L.

No, I don't think much of the vaseline treatment. Doctors do not feel very much encouraged to make careful prescriptions in such cases, because they know that the prescribing should be done ten years before the trouble comes. When you get to the stage you are in, there isn't much, if any, life at the roots, and it is almost too late to expect anything. Massage, vigorous brushing, and the use of a mild

NURSING BABY.

would like to nurse my eight-month baby through next summer, but I am afraid that I am pregnant again. Ought I to wean the baby?—B. S.

Although it is well for a mother to nurse her baby for a full year if possible, the coming of pregnancy destroys that possibility. For the sake of yourself, the baby, and the newcomer, you must wean your child at once. At eight months the baby may have several additions to his diet, including cereals that are thoroughly cooked, as well as green vegetables that have been cooked a long time, mashed and strained. You should begin to teach him to drink fresh milk from a cup.

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ally at your finger-tips—in the house, the stables, the barnyard! Consider the time and energy saved, the added health, pleasure and comfort to you and every member of your family. Water in abundance—at your beck and call—every instant of the day or night—is available to you through one of the famous

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leghorns that A

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In addition to the beneficial results of a big breeding plant, scientific incubation, proper shipping and expert management, you have that official added assurance of the quality of our stock by the fact that our chicks are accredited. Every individual breeder has been approved by trained poultry specialist under supervision of the Mich. State Col-lege. Provide yourself with the best. Write for latest special prices.

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PULLETS Right Now is the time to order your 8-12 weeks' Pullets for May and later deliv-

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Order Direct From This Ad. Hollywood and Ferris Strain Leghorns. Barred Plymouth Rocks. capacity. Thoroughlylong bodied, breeding birds, with large abdoinal Big, broad backed, culled. Mated to Large, Vigorous, Healthy Males. | May 23rd to May 30th. | ## 11.00 | ## 11.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.00 | ## 12.0 Write for Prices on June and July Deliveries. 100% Live Arrival Guaranteed.

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High in quality, low in price. "I have always liked your chicks the best," one customer writes. Do not pay fancy prices for chicks that are not better. Twelve years of honest dealing behind us. Pullets after May 1st.

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Best Quality From Select, Carefully Inspected, Free Range Stock 72.00 120.00



About Prohibition

Answering Christine Zeck's Arguments

A letter, I could not help writing. that deadly foe, alcohol, go uncurbed! It alone has wrecked more homes, killed or maimed more people, and robbed them, than all our murderers and robbers put together.

You say that it has not improved conditions. Before prohibition went into effect, we lived in a small village of perhaps 350 population, in which there were more saloons than grocery



Edward, Fern, Roy and Ray Hagadorn, Four Names, Three Persons, and One Cat.

stores. Saturday nights it was unsafe for a woman to venture on the main streets alone, because one would meet a half dozen drunken men on every block. And the wife and children of these men were home, hungry, cold, deprived in soul and mind, just because these men were not masters of themselves. Now, one rarely sees a drunken man. That place is a pleasant little summer resort now, not the tough town it used to be. Yet, you say, prohibition has failed.

Drinking is more prevalent among the younger generation, you say. But, putting a saloon on every corner is not going to stop them drinking. A saloon keeper knows if "he has the boy, he has the man," so would supply a boy under age.

One drunken man and an auto can work havoc. If that isn't enough, think of the poor children of drunkards. What chance have they in the world, weakened in mind, body, and spirit by the alcohol their father had drunk?

By repealing prohibition, will it better conditions? Will it help anyone? Prohibition has not been a flying success, but it has not failed. And nothing will be gained by repealing it .-F. C. C.

big free catalog is ready. Write for it today. Describes our stock special matings at higher prices. 100% prepaid live arrival guaran-HIGHLAND POULTRY FARM, Box C, HOLLAND, MICH. you, and others like you, would spend more of your time helping to enforce this law, there would be less need of considering a chance of the Volstead

> How do you know conditions are worse now than when the Volstead Act was not a law? You know what temptations saloons were before the Volstead Act. It certainly was no enlightening situation for a man coming from work with his pay check burning his fingers, and a patient wife and children who needed clothing, at home awaiting him, to encounter these numerous liquor joints. Alcoholic liquor is one of the most tempting temptations of the human being, especially

FTER reading Christine Zeck's for the person who is weak morally.

It is absolutely a fact that drunken-So she thinks prohibition has ness increases with good times, and failed and, as a result, the Volstead decreases with bad. People never used Act should be repealed? Then, why to notice men who were intoxicated; not repeal all laws concerning criminow they are arrested and written nals, as there is more crime now than about in the newspapers. Thus, peoten years ago? Kill or imprison our ple think there are more cases of murderers and robbers, yes. Yet let drunkenness than before. There are more happy homes and communities today as a result of prohibition. Children are going to school and being educated. My own community shows that.

> You say that after prohibition drinking has been done on the road from a flask. What about the horse and buggy that used to go past on the road, the inhabitants drinking, or already drunk? Prohibition wasn't a law then, but people did not notice these things. We have several dance halls around here, and it is not a regular custom for the people who attend them to be under the influence of liquor. No one of these places allows a person in this condition on the floor, We have barn dances, but no evidences of drink, such as those of which you spoke.

> The Volstead Act has not failed utterly to do what it intended to do, to promote temperance and sobriety. It has been stated legally that the country is financially better off, and in several states, with the increase of population there is a decrease of intoxication.-Farm Kate.

Our Letter Box

Dear Uncle Frank:

I will start a new subject for discussion. This time it will be, "Should the state of Michigan have capital punishment?"

ishment?"
On this subject I say yes, because I believe there would be fewer criminals if we did have capital punishment. Giving criminals life sentences makes a lot of expense, because it costs money to feed these prisoners who are serving life terms. By hanging a criminal who has killed somebody it cuts the expense in half, because it does not cost any money to keep up the gallows. We should have capital punishment, as it cuts the expenses in half. Let's keep the ball arolling, cousins, and give our opinions on this subject.—Harold Snyder.

You give a rather hard-hearted argu-

You give a rather hard-hearted argument, but I don't think you are as hard as your arguments would lead one to



Donald Cooper, Albion City Boy, Likes Farming.

You naturally expect some one to disagree with you.

Dear Uncle Frank:

I don't think that Dagmar Thomsen expressed my opinion right about worrying about the future. It's all right to plan for the buture, but I don't see any use in worry. I'm also planning about the future, but I'm trying my best not to worry. Why does the doctor always say to sick patients, "Don't Worry?" Some people sit from morning till night and do nothing but worry and worry, until they die from worry. I never have, in all my life, depended upon my neighbor, and I never

are not worrying," etc.

Dear Uncle Frank:

I don't see what girls have against boys. I have five brothers, and I can find something to like in all of them. Three of them are married and away from home, but I like them just the same. So I think that girls who don't like boys have something wrong with their heads. It just isn't natural, so there now! Do you like to play checkers, Uncle? I do, and I beat dad four games out of seven this afternoon. That wasn't so bad, now, was it? I That wasn't so bad, now, was it? I sure would like to know how Windy milks a kicking cow without her kicking, because I might have to milk next summer.—Chatterbox.

I'll agree that it isn't natural for girls not to like boys. If I'd play checkers with you, I'm sure of one thing-I'd lose. I haven't played since since grandpop was a pup.

Dear Uncle and Cousins:

Here I am again. My imagination does not work very well this morning, but as I look out over a 'sullen beclouded landscape, and listen to the slight stir of the first spring breeze, I can see beauty everywhere. But fancy cannot lead me. I hear the noisy hens waiting for food. The cows want consideration, too. And then along comes the housework, which there is never too little. These farm chores look small to the spectator, but they would not be so small if the onlookers tried their hands at it. I guess not. The result would be: backaches, lameness, and ruffled dispositions.

Esther Larson certainly gets my ap-

Esther Larson certainly gets my approval. The weather here is not even a "reflection" of paradise. It is fine to walk over snowless sidewalks, but when you have to shovel your own path, then that is where the blah begins.—Dimples.

There is wisdom in your letter. When you have wisdom, imagination is not an absolute necessity. I think we all would like some more of your unimaginable letters.

IMAGINATION CONTEST.

HAVE about run out of artists' conceptions of what I look like, so I have nothing to refer to when I want to find out. Also, our artists have not been very busy lately, so this contest

3. We have two rooms, one above another, sufficiently large to accommodate two hundred pupils.

intend to depend upon my neighbors.

I also believe in Holy Scripture when God says: Ps. 127,2: "It is in vath for you to rise up early, to sit up late to eat the bread of sorrow: for so He giveth His beloved sleep."

When you are planning you are not worrying, and when you're worrying you're not planning, that's my opinion about worry. How do you agree about this, Uncle Frank?—Gertrude.

I agree with you. You said it in a boys focket knives. These drawings I agree with you. You said it in a boys, pocket knives. These drawings nutshell, "When you are planning, you should be in by April 22, as the contest ends then. Send them to Uncle Frank, Michigan Farmer, Detroit, Mich. Please remember that all who send in good drawings will be given M. C. buttons and membership cards if not now members.

GRAMMAR WINNERS.

WE had many amusing answers to the Grammar Contest. Apparently quite a few did not know what a coach and six is. It is not a six-cylinder auto, but an old-type coach drawn



Percy White Thinks I'm a Horse Trader.

by six horses. We did not count as incorrect those replies which had the sentences slightly different than ours, but so arranged as to make the same sense. The fortunate ones in this contest are:

Fountain Pens.
Chester May, R. 1, Edmore, Mich.
Bernard A. Herold, R. 4, Dowagiac.
Combination Pencil and Sharpener.
Paul E. Hepworth, Pentwater, Mich.
John A. O'Leksy, P. O. Box 717, Norway Mich. Mich

Clyde Bowman, Hersey, Mich.

Stationery.

Evelyn Phillips, Gen. Del., Niles.
Mildred Burt, R. 6, Eaton Rapids.

Pocketbook Clutch Pencils.

Pauline Martinus, R. 3, Birch Run.
Marie Buck, Morrice, Mich.
Bernice Sting, Gagetown, Mich.

The Correct Answers.

1. He was driving away in a coach and six from the church where he had been married.

2. He blew out his brains with a

gun, after bidding his wife good-bye.

The Golden Circle Corner

THREE rousing whoops for Uncle Frank and the Golden Circle reunion! I think it's the best idea we Ruth?" inquired my cousin sarcastihave struck yet for Our Page. It gives me a great pain to announce that the ensuing attempt on our special program will be a discourse on a certain Scotch habit. And I don't mean kilts!

Three years ago this coming summer, a distant cousin of mine from a he-man's game.

spends a billion dollars annually on I am an "average" golfer. somebody who was obviously a dub golfer, and therefore was in a position to know, that since the advent of the ancient and honorable Scottish pasttime in America, there have been approximately 363,984,507 new words. phrases, and expressions added to the English slanguage. And believe me, after having topped, sliced, hooked, and lost balls, missed two-foot putts, and committed every other indiscretion known to golf in the last three years, I don't doubt it a bit!

Naturally, the first time I ever swung grounds, I attempted to deposit the unoffending "pill" in the middle of the can tell!"-Guilford Hal Rothfuss.

ensuing decade. As a result it merely counted as one strike.

"Who do you think you are, Babe cally. "Take it easy at first until you get used to ft."

Following his advice, the next time I swung more carefully, and somehow managed to connect with it squarely. The ball took a joy-ride straight down the fairway toward the green, and an-Toledo sold me the heretofore-un- other golf-fiend was born. In the next thought-of idea that golf was as she two years, during which I probably is played by Bobby Jones & Co., was lost as many balls, missed as many putts, and dug up as much turf as the It has been estimated by reliable ordinary beginner, I improved little by statisticians that the American public little, until now I flatter myself that

> Last year I put in two more holes and discovered that two and two made the surprising total of nine! I found that by playing the course forward and backward, and in between, I could end up where I started from, with nine holes played and have a different drive on every hole. Ain't science and nature grand?

One thing I have never yet been able to do is to make a hole in one. They say it only happens once in ten thousand times. The chances are that I may never do it, but, as Captain a brassie in our cow pasture golf Kill remarked when he carved out the tongue of the last pirate, "You never



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These Chicks are all Michigan Accredited. Order direct sending Cash With Order, deducting 10% From the Above Prices, for April 12th, 18th and 25th delivery.

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This is an average of 21 eggs per pullet per month. YOU can do the same with our stock which is the result of 13 years of breading for SIZE, TYPE, WINTER EGGS and HIGH FLOCK AVERAGE, instead of a few high individuals. We have HOLLYWOOD, TANCRED, and ENGLISH type S. C. White Michigan Stock From 260-290 egg record; Tancred foundation stock from 250-290 egg record; Tancred foundation stock from 250 up egg record egg. The strongest proof of the quality of our chicks is, that we have doubled our harching capacity over last year. With "TOWNLINE" you also get "PERSONAL SERVICE, LARGE NEW CATALOG FREE. BIG PRICE REDUCTION—Use these prices for delivery Week of May 9 and 16.

Eng. Type, S. C. Wh. Leghorns. 12 \$55 Anconas & Brown Leghornss. 12 \$55 Hollywood or Tancred Legherns. 14 65 Barred Rocks 15 70 Assorted or Mixed Chicks 92 each. For week of May 24 31, all prices le per chick less. Chicks shipped postpaid. 100% live delivery guaranteed, Discount on early orders.

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HIGH Leghorn to date
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From all blood tested stock for four years.

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All females inspected and males banded by M. S. P. I.

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Customer reports 2,066 eggs in January from 100 of our pullets. Blood will tell.

If you really want good chicks that will grow into very profitable layers at a fair price, write today for our instructive and descriptive circular.

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Proven Layers—Michigan Accredited. Get These High Quality Profit Produc-ers, ENGLISH AND TANCRED STRAIN WHITE LEGHORNS, S. C. BROWN LEGHORNS, SHEPPARD'S ANCONAS, BARRED ROOCKS AND S. C. RHODE ISLAND REDS. Also Mixed Assorted Chicks. All from carefully culled, select breeding stock. Heavy Laying Type, Profit Producing Pullets, from English a Tancred White Leghorns. Order NOW for Assured Deliveries. FREE Circu Gives Full Details, Write at once. 100% Live Delivery Guaranteed, Bank Referen WINSTROM'S HATCHERY, Albert Winstrom, Prop. Box C-6, Zeeland, Mich.



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MORE and BETTER MILK

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Send for Booklet No. 40 showing models for every purpose. Agents write for open territory.

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Single Unit

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POOR CREAM SEPARATING WASTES MONEY.

HOW many pounds of butter-fat per year are you pouring into your hog troughs or feeding in other ways? None, you say? Then you are an unusual exception, because most farmers do waste considerable butter-fat which could easily be prevented. If fed to hogs, it is not entirely wasted, but butter-fat at fifty cents per pound makes rather expensive hog feed.

A large dairy products concern made a systematic canvas of the cream separating in a small territory, and found rather surprising conditions, some being almost unbelievable. Space will not permit of going into details, but

adjustment. Check carefully the direc tions for operating the separator and follow them to the letter. If this does not stop the trouble, then take the matter up with the service department of the manufacturers and insist that they put the machine in condition to do good skimming. If they refuse to do this at a reasonable cost, and you are unable to find someone who can do it, it will be cheaper to dispose of the separator for what it will bring, or to throw it in the junk pile and buy a machine which has a good reputation in your locality, both for performance and for service. But do not condemn the machine until you are sure it is kept thoroughly clean, is setting level and solid so it cannot vibrate, is turn-



St. Austell Daffodil, Bred by C. G. Parnell of Jackson, Michigan, and Now Owned by Ward Acres, of New York, Has Given 73,887 Pounds of Milk and 3,522.72 Pounds of Fat in Five Successive Lactation Periods.

out of the first thirty separators test- ed at the correct uniform speed, and ed, only three were wasting less than that the temperature of the milk, and \$20 per year on the basis of twenty the rate of inflow are according to digallons of milk per day, and butter-fat rections.-I. W. Dickerson. at an average price of forty cents, and several were wasting over \$100 per year, and hand-skimming over \$700 per year on the same basis.

There are many causes for loss of butter-fat in skim-milk; such as the speed, temperature of the milk, rate of inflow, cleanliness of machine, smoothness of running, wrong adjustment, not setting level, vibration, and so on. While the age of the machine had something to do with the losses, one of the worst cases was a machine which had been in use only one month.

And all this terrific waste is so easily prevented. All any farmer has to do to check the work of his separator is to take an occasional sample of the skim-milk to an association tester, to a creamery or dairy, or to a milk station, and have the skim-milk tested for butter-fat. Any good creamery

a day and flushed out with water once is just a matter of education. a day, and only about one-fourth as much as those washed once a day and vicious. They usually must be hand-

in spite of thorough cleaning, then the head to the manger so he can't bite,

OILING HARNESS-BREAKING COLT.

Will a harness last longer if soaked in oil drained from a car? I have a three-year-old colt which I was able to harness once, but the second time she began kicking, and I have not tried to harness her since. How could I break her?—S. T.

Mineral oil is not good for leather. It hardens it and makes it crack. Animal or vegetable oil only should be used on leather, and animal oil is much more preferable.

A colt usually kicks because he is afraid. Kicking is his natural means of defense. He thinks he is going to get hurt. A little careful handling, a little kindness in showing him that he will not be hurt, ordinarily is all that is necessary. The man who understands colts, a natural master of them, man will be glad to do this without can nearly always get their confidence charge for any of his patrons. If the in a short time and have no trouble. tests show too much butter-fat in the But there are colts that haven't intelskim-milk, have them figure up the ligence enough hardly to be handled loss per year, according to the num- in this way, at least by the ordinary ber of gallons produced per year, and man. Then they must be handled dif-the average price of butter-fat, and ferently. Strap up one front leg so see if it is a saving worth trying for. he can kick, carefully put the harness The first thing to suspect is unclean on, when the colt will find that he is separators. Tests in Minnesota show- not injured. Cautiously dangle the hared that separators washed thoroughly ness around the hind legs, talking entwice daily wasted only half as much couragingly all the while. The colt butter-fat as separators washed once will soon cease to be frightened. It

But there are other colts that are flushed with skim-milk or not at all. led still differently, yet such colts, This shows that thorough and fre- many times, can be cured by kindness. quent cleaning of separators pays big If not, then one must resort to force until the colt gives up, finds out that If the waste of butter-fat continues it does no good to resist. Strap his trouble is in the speed or the proper tie up his front leg to prevent kicking, or perhaps may be necessary to tie animal must have a definite amount his hind feet. You are warranted in of protein. using him a little rough until he learns to obey. It is better that all colts have the same driver until they are thoroughly broken.

Some colts have such strong personality that it is best to employ a professional horse trainer to break them. When once broken they usually make the best kind of horses.

WHO PAYS COST OF SHEARING?

In a case where no contract is made, and you rent an equipped farm, the renter furnishing the labor and receiving one-third, is the renter to pay the whole cost of sheep shearing, or just his one-third?—G. W. B.

As to who bears the expense of sheep shearing, depends on the size of the flock somewhat. If experienced shearers are brought in and the flock is sufficiently large enough, such expense should be paid by both parties. Such operations should be classed the same as outside machine hire.-F. T.

FLOUR SWEEPINGS FOR PIGS AND HENS.

Is flour (sweepings from big bakeries, mixed flour), good for pigs, or for mixing in mash for chickens? The flour is quite clean and contains no refuse of any kind.—A. A. M.

If this flour doesn't contain too much dirt, there is no reason why it is not suitable food for both pigs and chickens. If it is half dirt, which has no food value, you wouldn't want to HAY FOR BULL_COST OF KEEPpay much for it, neither would you want to feed all this dirt.

Flour, when fed alone, is quite sticky and bothers in feeding, but if mixed with other food for a dry mash, or even a wet mash, no difficulty would be experienced. For hogs it would be fine if made into a slop with corn meal or barley.

MILK HAS BAD ODOR.

I have a very good registered cow whose milk tests eight per cent or better, but her milk has a bad odor, and the butter a poor flavor. What can I do in this case? I would like to keep the cow.—W. L. W.

Quite often cows that are owned as a private family cow will give milk that has a bad odor and flavor. It is sometimes characterized as a bitter flavor. However, this condition is usually present in the milk from cows that are almost dry, and due to freshen soon. There is more trouble, generally speaking, with family cows where there is only one cow in the barn, because of the fact that they are usually over-fed in the owner's attempt are naturally declining in milk. In tive ratio, that is, the proportion of their efforts to get all the milk that the protein to the carbohydrate, should is possible, the usual practice is to be about 1:7.7, that is, one pound of feed the cow quite heavily on grain, and this is where the trouble begins. Cows under this condition are usually quite fat. About the only remedy for taking all the grain away from them, of carbohydrates. In other words, furand then gradually bring the grain up nish a balanced ration which would be in proportion to the milk produced, health of the bull. usually one pound of grain to each three pounds of milk produced daily .-O. E. Reed.

COST OF KEEPING A PONY.

How much should it be worth to care for a pony weighing about 400 pounds, for six months? I am unable to make any use of it.—E. J. B.

It is possible that there might be no market for timothy hay, and one but ordinarily it is not economical to feed hay alone. In a maintenance ration the proportion of protein to carbohydrates should be about 1:7, wherewaste of carbohydrates, because an and never be allowed to become fat.

Experiments disclose that a horse doing no work, just yard exercise, requires a little over one pound of diges tible protein per 1,000 pounds of live weight, to neither gain nor lose in live weight. Therefore, it would take about forty pounds of hay per day to furnish a horse a maintenance ration. The pony weighs only about one-half as much, hence would require about twenty pounds.

In six months of the winter it would require 1.8 tons at \$10 per ton, the usual price figured for timothy in the barn, this would amount to \$18. Then it would take about a ton of straw for bedding, worth at least \$5.00, or a total of \$23. To this must be added the cost of labor for care, which can hardly be estimated by anyone who does not actually do the work.

If, instead of feeding an all hay ration, two pounds of oats is fed, then it will require only ten pounds of hay per day to furnish the required protein, and the cost would then be:

Two pounds of oats per day for six months equals \$5.00; ten pounds of hay per day for six months equals \$9.00, and straw, \$5.00; or a total of \$19.

Of course, if clover hay was fed instead of timothy, the ration would figure differently. But even then, a ration entirely of bulky feed is not the best, especially for a horse.-L.

How much alfalfa hay should one feed a four-year-old Guernsey bull per day when nothing else is fed? What does it cost to keep a bull per year?

A bull should not be fed entirely on alfalfa. It's too rich in protein. would be very extravagant, and besides, it would be detrimental to the health of the bull.

A bull usually has very little exercise, not enough to keep him in good health, and requires but little more than a maintenance ration, certainly no more than an animal at light work, and should be fed accordingly. One and one-fourth pounds of protein per day per 1,000 pounds live weight is all that is necessary, and all that is best. If fed on alfalfa alone, twelve pounds would furnish this amount, but it would be necessary to feed more because the twelve pounds of alfalfa would not furnish sufficient carbohydrates. In other words, alfalfa does not contain the food nutrients in right proportion to be fed alone as an entire ration. For an animal kept under the condito keep up their milk flow when they tions a bull is usually kept, the nutriprotein to every 7.7 pounds of carbohydrates; but alfalfa has a nutritive ratio of about 1:3.6.

A ration of eight pounds of alfalfa, clearing up the situation is to give ten pounds of silage or cornstalks or the cow a good physic, such as a pound straw, and three pounds of ground oats of epsom or Glauber's salts, and cut will supply the necessary amount of down the food to the point of almost protein, and also the necessary amount to the normal amount, which should be cheaper, and much better for the

Many bulls are over-fed. Some are fed as much as one would feed an ox in the yoke doing heavy work. They get too fat, and many become useless as sires when they should be in their prime. And all because of much feed and little exercise. If the bull could be worked every day, the case would be different. The ration proposed above would cost \$50.73 for one year. This is figured on a basis of 1,000 pounds of had it in such abundance that he could live weight. If the bull weighs less he afford to winter a pony on hay alone, would require less feed, and if he weighed more he should be fed more.

A young growing bull, of course, would require more liberal feeding. After he has gotten his normal growth as, in timothy hay it is about 1:16, he should be fed only a sufficient hence when fed alone there is a great amount to keep him in fair condition,



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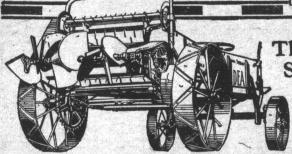
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DAIRY COOPERATION IN MINNE-SOTA.

(Continued from page 527). such work is only possible where creameries have federated into one The creameries in big organization. one district recently built the only sweet buttermilk drying plant in America, and it is extracting enough fat from the buttermilk to pay all the operating expenses of the plant, leaving the dried product, worth ten to twelve cents a pound, all profit. These creameries are applying packer efficiency to their business. The packer wastes only the squeal of the hog; they lose only the water evaporated in drying the buttermilk.

This sweet buttermilk powder is being used for candy making, ice cream mixes, in cake flours and for general baking. Used with pure milk fat it makes fine ice cream. These two products give the association the most concentrated milk products known, and great savings in freight and express costs are possible.

and eighty-nine cars of frozen cream ones are organizing on that basis. were shipped, some as far away as Florida, where it was served absolutely sweet a week after shipment. product coming from the Minnesota and Wisconsin factories that are members of the Wisconsin Cheese Producers' Federation. In the Twin Cities, Cooperative Egg and Poultry Ex-

The association also buys supplies for its member creameries. Last year supply sales reached \$1,750,000. The patronage refund to creameries on this business last year reached \$123,166.

Thus far, the assembling, grading and merchandising of the butter represents the greatest advancement over methods used prior to the federation of these creameries. Every one of the cooperative creameries was a competitor of each other. Since the first creameries were built back in the early nineties, they had all sold the bulk of their fine butter in New York and Philadelphia, shipping in less than carlots. They were always at the mercy of the buyers who discriminated somewhat in prices, but who treated them well, as there was seldom enough fine butter to supply the market.

Had the 3,508 cars of butter shipped by the association last year gone under the old less than carlot rates, the freight bill would have been \$355,083 greater than it was under the plan of assembling and shipping in carlots. The money saved by creameries on this one item alone greatly exceeds the entire cost of the organization.

Then, as all dairy farmers know, New York sets the price of butter. When that market is flooded, prices drop. For thirty years the creameries which supply that market with the

markets, principally New York and Philadelphia, it is building up "outside" markets through advertising. Last year 216 communities bought Land O' Lakes butter. Thirty-six cities took over a million pounds each. Boston took 17,228,000 pounds, a bit more than New York, and Boston has always been a centralizer market. Buffalo, another centralizer market, took over 5,000,000 pounds, almost a million more than Philadelphia, and even Chicago, long recognized as a low quality market, took more 93-score than Phildelphia. Cleveland, Washington, and

The plan is this: When the New York market becomes loggy the association diverts its butter to these other markets. It tries to give New York and Philadelphia just enough fine butter to meet the trade demands. And who can say what might have happened to the butter market the past winter if Minnesota had dumped all its fine butter on New York, as it did in the years gone by? It doesn't need much imagination to see that when this organization controls enough of the fine butter that it will cut the market from under the poorer butter, and get a greater spread for the fine butter.

This cooperative is built from the ground up. There were 633 of these local creameries in Minnesota before any attempt was made to federate them, and there are counties in Minnesota today with more than a creamery to the township. When joining they agree by contract to sell through the association for a period of two years, but they may withdraw at the end of that period on thirty-days' notice. Very Sweet cream is another important few of the old local creameries have product. Last year 288 cars of fresh, contracts with patrons, but most new

This organization can well be classed with "big business." It is managed by eighteen farmers, one from each Cheese is also being handled, this district association, but it is operating like any big private business firm. Only about two-thirds of Minnesota's creameries have joined. These "holdouts" still prefer the old methods, and it markets eggs for the Lake Region are being teased to follow them by the private butter buyers who even tempt them with premiums. Supply salesmen also spread plenty of poison, generally unsupported by facts, but despite this bitter opposition the association continues to grow and show marked progress. Wisconsin is learning more and more toward greater affiliation, and two or three creameries in Iowa are now interested. When the top notch creameries of those states join those already federated, Land O' Lakes will be such a dominant factor in the fine butter market that even higher premiums will be paid for quality.

Any discussion of the dairy cooperatives of Minnesota would be incomplete without mention of the Twin City Milk Producers' Association. It was organized in 1916 to supply fluid milk to the Twin Cities, and it has rescued the dairy farmers in a fortymile zone of those cities from a de-plorable condition. It now has 6,908 members, and its operation has been studied by delegations from all parts of America, and even foreign countries. It is the model copied by numerous other fluid milk associations.

Briefly, it has provided a market for every pound of the farmers' milk every day in the year. It bargains with the distributors on the basis of what milk is worth when turned into butter and cheese. It has had no disputes with distributors for six or seven years. of Minnesota, Iowa and Wisconsin Its surplus is turned into butter, cheese, ice cream and condensed milk, bulk of its fine butter, saw prices and it makes a full line of milk powfluctuate without adequate reason. It ders and casein. Nearly 300,000,000 did not matter if some other city was pounds of milk were handled last year, crying for fine butter, the price went of which only 49.7 per cent was sold down if New York was over-supplied. as market milk. This organization has Here is where Land O' Lakes helps done fine work in improving quality, every dairyman. It is developing new and has been able to handle always markets for fine butter. Instead of the increasing production due to satbeing dependent upon four or five isfactory market conditions. The loy-markets, principally New York and alty of its membership is indicated by the fact that only three exercised the yearly option last year to withdraw.

Yes, Minnesota dairy men have long realized the value of cooperative manufacture; now they are learning the importance of cooperative merchandising. May their experience prove an inspiration to farmers in other sections who have not yet learned of these advantages, many of whom do not even cooperate as yet in even handling the raw product.

Charles Darwin was a semi-invalid, Pittsburgh took over 3,000,000 pounds due mainly to an eye defect which caused extreme dizziness.

2

If a horse isn't ready to work when you need him you suffer vy loss. You lose the very thing you feed him for—his power to work. Don't let any of your horses suffer with heaves. No matter how bad the case seems, or how long it has existed, it will nearly always respond if you use Fleming's Tonic Heave Powders.

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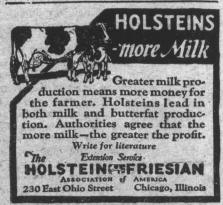
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FEED FOR FRESH COWS.

Our cows freshen soon. What feed should we buy to give them a balanced ration? We have only ground rye with vetch in it, and mixed clover and times. Are mineral feeds a benefit? othy hay.
—M. I. C.

Vetch in the rye helps out on the protein content of the ration, as it contains about twenty per cent protein, but the question that puzzles one in mixing the right amount of the different feeds to make a balanced ration, is what proportion of vetch to rye in the mixture. Does vetch form onefourth or one-third of the mixture? The writer is assuming that it is onethird, but if less or more, it would make some difference in the proportion of the different feeding stuffs. The same question comes up in the question of hay. What per cent of it is clover? In this we are assuming that it is fifty per cent clover. With this understanding, we suggest:

Fifteen pounds of mixed hay would contain .73 pounds of protein; six pounds of rye and vetch would contain .77 pounds of protein; two pounds of cottonseed meal, (or of cottonseed and linseed meal mixed), would contain .75 pounds of protein. This would make a total of 2.25 pounds of protein.

This is sufficient protein in the ration for cows giving a good liberal flow of milk. Cows should not be given cottonseed meal for the first two weeks after freshening, then begin with a half pound, and gradually increase to the full amount in two weeks' time.

Minerals are very essential as part of the food for all kinds of animals. They cannot live for long without them. But ordinarily, food grown on good land contains these minerals in sufficient quantity so we do not have to pay any attention to them. Legumes like clover and alfalfa, contain sufficient lime and phosphorus, also grains-corn, oats and rye-have plenty of the mineral elements. But in some instances on sand land, and other land deficient in lime, the crops grown may be deficient in minerals. And if they are, then it is highly essential that minerals in the form of bone meal, wood ashes, etc., be supplied the animals.

Pigs watered in the ordinary way took 111 days to increase in weight from fifty-six to 225 pounds; while another group fed exactly in the same manner, but had access to an automatic waterer, reached the 225-pound mark in five days less time, and on forty-four pounds less feed.

VETERINARY.

Bitter Cream.—The cream from our Jersey cow becomes bitter when it stands eight or ten hours. What causes this, and what can be done? C. B. G.—The bitterness is produced by bacterial G.—The bitterness is produced by bacteria, which may be present in the milk when drawn from the cow, or it might become contaminated afterward. Feeding mouldy or spoiled feed, mouldy, decomposed bedding, a damp, dirty barn, or letting the milk stand where it is dusty, are some of the causes of bitter cream. Take four small drinking, or wine glasses, milk an equal quantity of milk from each quarter into a separate glass. See if the four samples all have a uniform color. If you find one or two a little off color, it would indicate that one or more quarters were not healthy. If the milk passes this color test, has a good odor and taste, I think it would be safe to use.

and taste, I think it would be safe to use.

Swamp Fever.—I have had two of my horses die. First, they dragged their front toes; then, whatever alled them moved to their bodies and hind legs. They hop from one leg to the other for two or three days. The third horse is getting the same way. They eat and drink well. When they lie down they seem to rest a little better. They stagger when they try to walk. H. C.—Your horses are no doubt suffering from swamp fever. It would be advisable to have your local veterinarian treat them for you. The medicine that has given the best results, is an arsenical preparation called atoxyl. This is given in doses from five to twenty grains once daily in a ten per cent solution under the skin. The horses should be given good nourishing food, in order to keep up their strength.

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CALVES, YRL'S & TWO'S. . Well marked, beef type, showing splendid breeding. Dark reds. Most all bunches around 45 to 90 head. Each bunch even in size. Also a few bunches shorthorn steers. Will bunches around 45 to 90 head. Each bunch even in size. Also a few bunches shorthorn steers. Will bunches around 45 to 90 head. Each bunch even in size. Also a few bunches shorthorn steers. Will bunches around 45 to 90 head. Each bunch even in size. Also a few bunches shorthorn steers. Will bunches around 45 to 90 head. Each bunch even in size. Also a few bunches shorthorn steers. Will bunches around 45 to 90 head. Each bunch even in size. Also a few bunches shorthorn steers. Will bunches around 45 to 90 head. Each bunch even in size. Also a few bunches shorthorn steers. Will bunches around 45 to 90 head. Each bunch even in size. Also a few bunches shorthorn steers. Will bunches around 45 to 90 head. Each bunch even in size. Also a few bunches shorthorn steers. Will bunches around 45 to 90 head. Each bunch even in size. Also a few bunches shorthorn steers. Will bunches around 45 to 90 head. Each bunch even in size. Also a few bunches shorthorn steers. Will bunches around 45 to 90 head. Each bunch even in

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Wheat.
Detroit.—No. 2 red at \$1.31; No. 2 white \$1.32; No. 2 mixed \$1.30.
Chicago.—May \$1.325%; July \$1.275%; September \$1.2674.
Toledo.—Wheat No. 2 red \$1.3174.

Detroit.—No. 2 yellow 78c; No. 3 yellow 76c; No. 4 yellow 72c; No. 5 yellow 68c.

Chicago.—May at 70%c; July 76c; September 79½c.

Oats.

Detroit.—No. 2 Michigan 50½c; No. 3, 47½c. Chicago.—May 43%c; July 43%c; September 42%c.

Rye.
Detroit.—No. 2, \$1.08.
Chicago.—May \$1.01¼; July 98%c;
September 94¼c.
Toledo.—Rye \$1.05.

Beans.

Detroit.—Immediate and prompt shipment at \$4.40 f. o. b. shipping

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New York.—Pea domestic at \$4.75@
\$5.25; red kidneys \$6.75@7.25 to the
wholesalers.
Chicago.—Spot May beans, Michigan
choice hand-picked, in sacks, at \$4.50;
dark red kidney \$5.25.

Barley.
Detroit Malting \$60; feeding 750

Detroit.-Malting 86c; feeding 75c.

Seeds.

Detroit.—Cash red clover at \$27; cash alsike at \$24; timothy, old \$2.40; new \$2.65.

Detroit.—No. 1 timothy at \$17@18; standard \$16.50@17.50; No. 1 light clover mixed \$16.50@17.50; No. 2 timothy at \$15@16; No. 1 clover \$16@17; oat straw \$12@13; rye straw \$13@14.

Feeds. Detroit.—Winter wheat bran at \$36; spring wheat bran at \$35; standard middlings at \$36; fancy middlings at \$41; cracked corn at \$34; coarse corn meal \$32; chop \$33 per ton in carlots.

WHEAT. WHEAT.

Wheat prices made but little progress in the past week. The market features remain much the same. Export demand is fair, receipts at primary markets are light, and foreign markets are still absorbing large amounts of wheat. On the other hand, the new crop outlook is highly favorable. Apparently, values are well adjusted to the supply and demand situation and some change in basic conditions is being awaited. New crop prospects in the northern hemisphere point to a larger crop than last year. The acreage, as far as it has been reported, is about 3.4 per cent larger than last year, and the crop in both the United States and Europe has come through the winter in better condition than last year. The incentive for any important may in wheat prices probably year. The incentive for any important move in wheat prices probably will have to come from the new crop outlook. Comparative stability may continue until the ultimate outcome of the crop is more certain.

RYE.

Rye has been stronger than other grains. The visible supply is large, but enough of it is sold for spring shipment to prevent pressure. Reports from Germany still show a big need for this grain before another crop can be grown. The condition of the new crop on April 1 was 86.4 per cent of normal, compared with 80.2 last year and a ten-year average of 85.8.

CORN.

Corn prices have strengthened recently. Receipts have been light and the visible supply has begun to decrease in spite of moderate demand. The chances are that stocks at terminals have reached their neak and that nals have reached their peak, and that

nais have reached their peak, and that decreases from week to-week will be the usual order from this time on. Stability in other grains has helped the corn market, and speculative support has been more aggressive.

While a moderate rise in corn prices in the spring or While a moderate rise in corn prices is to be expected during the spring or early summer, no big move is probable unless weather conditions become unfavorable for planting the new crop. Some important corn sections are complaining of excess moisture.

OATS.

The oats market has been relatively stable, but the visible supply is decreasing each week, and wet weather has delayed seeding operations in some sections. The oats market is in position to respond if other grains have an advance of any consequence, but

Demand for seeds from the northern states is becoming more active as conditions favor planting. Rains would check sales, but dealers generally are expecting a good trade from this section. Large sales of alfalfa and sweet clover are expected in Kansas and Nebraska. Prices generally are steady.

FEEDS.

The feed market is quiet with the

The feed market is quiet with the demand limited. Cooler weather during the past week has held back pasture growth in northern sections, but with the season farther advanced than is usual at this date, there is little incentive to buy ahead of actual needs. Feed for deferred shipment is quoted at substantial discounts under prompt at substantial discounts under prompt shipment. Corn industries have an-nounced their "grass prices" for glu-ten feed.

HAY.

The hay market holds steady at unchanged prices in spite of a slow trade. Slightly less hay remains to be marketed than a year ago, but dealers generally expect a quiet spring trade, so that supplies should be equal to the demand. Consumers are buying on a hand-to-mouth basis, as is usual prior to the opening of the pasture season. Demand for leafy alfalfa hay for dairies particularly has fallen off.

EGGS.

The egg market was marked a little HAY

The egg market was marked a little lower last week, as supplies continued to increase. As yet, no indication of any falling off in country collections can be seen, but it is believed that the peak of production is close at hand. Storage holdings are being built up rapidly and the surplus of 400,000 casciviched in the four leading discountries. rapidly and the surplus of 400,000 cases in holdings in the four leading distributing markets, and a proportionate gain at interior storing points on April 1, as compared with a year ago, is growing. Prices are not expected to work much lower, although they would have difficulty in holding any material advance so long as supplies remain so large Broilers are more plentiful than large. Broilers are more plentiful than usual this early in the season, and prices are on the down grade. The high point usually is not reached until in April.

Chicago.—Eggs, fresh firsts at 23@ 23½c; extras, packed in white wood cases 31@32c; ordinary firsts 22½c; miscellaneous 23c; dirties at 21½c;

they are not likely to move independently.

checks 21½c. Live poultry, hens 28c; springers 32c; roosters 18c; ducks at 34c; geese 18c; turkeys 30c.

Detroit.—Eggs, fresh firsts at 23½@ 24c. Live poultry, light springers 30c; broilers 48@53c; heavy hens at 31c; light hens 32c; roosters 20c; geese at 22c; ducks 35@38c; capons 35c.

BUTTER.

The butter market has declined again after regaining the losses of a week ago. Trading has been on a hand-to-mouth basis as dealers believed prices were too high, and that a change to lower values was close at hand. More liberal supplies have been received at leading distributing markets, exceeding the quiet trade and causing some accumulation on dealers' floors. Some progressive increase in production of butter is to be expected as the season advances, and values are likely to sag.

Prices on 92-score creamery were:

Prices on 92-score creamery were: Chicago 48%c; New York 50%c; Detroit, fresh creamery in tubs 48%c.

POTATOES.

Prices on old potatoes moved into higher ground last week, although new stock declined. Idaho, Colorado and Washington, are reported to be running short of potatoes, with stocks on April 1 only about half as large as on the same date a year ago. The market is expected to hold its stronger position at least until competition from new stock increases. Northern round whites, U. S. No. 1, are quoted at \$2@2.20 per 100 pounds, sacked, in the Chicago carlot market.

APPLES.

APPLES.

Apple prices continue steady in spite of the dull trade. Supplies of high-grade stock are dwindling as the season advances. Michigan and New York A-2½-inch Rhode Island Greenings are quoted at \$4.75 per barrel at Chicago.

BEANS.

New York reports that the market is absolutely dead and that all varieties are without new features or price changes. In Chicago moderate prices prevail, with trade very quiet. CHEESE.

The cheese market is steady, with twins and young Americas scarce and slightly higher. Buyers are purchas-ing in small amounts for actual needs,

Calves.

Receipts 775. Market steady.

so that trade is not large. Prices average several cents a pound higher than at this time a year ago.

Chicago.—Twins 22¼@22½c; single daisies 22½@23¼c; double daisies at 22½@23c; Longhorns 22¼@22¾c.

New York.—Single daisies at 24@24¼c.

Philadelphia.—Single daisies 24¼@ 24½c; Longhorns 24¼@24½c.

WOOL.

WOOL.

The wool trade is quiet for the most part, with occasional spurts of brisk buying of small lots to cover immediate needs of mills. Activity is not general, however. Sales of foreign wool held in bond for re-export from Boston have attracted attention, as they show clearly that Boston is below the world parity. Mills are keeping production of goods in check in an effort to widen their manufacturing margins. While this creates a healthier situation in the goods market, it reduces the amount of raw wool required. Foreign markets remain strong. The London sale closed after selling 78,000 bales to the Continent, 43,000 to British buyers, and 4,000 bales to the American trade, Sales in the west are scattered with prices one to two cents below the peak of several weeks ago. Some old clips in Ohio and Pennsylvania have been bought at 39 cents at country points.

GRAND RAPIDS.

Potatoes \$1 bu; leaf lettuce 15@16c lb; radishes 60@75c dozen bunches; parsnips 65c bu; green onions 12½@15c bunch (36 onions); vegetable oysters 50c dozen bunches; parsley 40c dozen bunches; apples, Spies \$1.75@20c dozen bunches; but spies \$1.25c; but tend \$5 cwt; wheat \$1.13 bu; rye 77c bu; hens 24@23c lb; pork 13½@14c; veal 15c; beef 6@10c; lamb 25c; mutton 11c; eggs 21@22c; butter-fat 52c lb.

DETROIT CITY MARKET.

DETROIT CITY MARKET.

Apples 50c@\$3.50 bu; beets 75c@\$1
bu; cabbage \$1@1.25 bu; savoy cabbage \$1.25@2 bu; carrots 80c@\$1 a
bu; dry onions \$1.50@1.75 bu; green
onions 50@60c dozen bunches; root
parsley 75c@\$1.25 bu; potatoes 60c@
\$1.40 bu; turnips \$1.50@2 bu; leeks
75c@\$1 dozen bunches; parsnips \$1.50
@2.25 bu; vegetable oysters 75c@\$1
dozen bunches; horseradish \$2.50@4
bu; root celery \$1.50@2.50 bu; eggs,
retail 30@35c; hens, wholesale 30@
33c; retail 33@35c; springers, wholesale 28@31c; retail 32@34c; Leghorn
springers, hens, wholesale 27@29c;
veal 19@21c; dressed hogs 17@19c;
dressed poultry, hens, retail 35@38c;
springers, retail 35@38c.

CATTLE PRICES HIGHEST OF THE YEAR.

ALL killing classes of cattle have reached new high prices for the season. The Chicago top for heavy steers stands at \$13.75, with fat yearlings at \$12.50. Most of the weighty steers are selling at \$12.50 to \$13, and yearlings at \$9.50 to \$11.50. Fat cows are quotable above \$9.25, but the bulk of sales run \$6.50 to \$8.25, while yearling heifers are going to the shambles at \$9 to \$10.25.

Small receipts and anticipated improvement in meat trade with the ending of Lent were the basis for the strength. Steer prices have advanced since the first of the year with only small setbacks, but the rise has not brought heavy runs, which is a convincing symptom that numbers of marketable cattle in the country are moderate. Supplies of heavy cattle are extremely light, but receipts of lower grades of light cattle are about all the market will stand. These have advanced but little in the past month in spite of the fact that liquidation of short-feds began to abate about that time.

Out of the thirty-two principal lines of agriculture and industry reporting to the executive committee of the Midwest Shippers' Advisory Board, thirteen lines expect increased business in the next three months, as compared with the corresponding period in 1926; fourteen lines report that their probable business activity during the coming quarter will approximately equal their business in the same months last year, while five lines report that their business during the next ninety days will be below that done last year.

Live Stock Market Service

Tuesday, April 12.

CHICAGO.

Hogs.

Hogs.

Receipts 21,000. Market slow, 25c lower on better grade hogs, compared with Monday's best prices; packing sows around 10c lower; general market steady with Monday's close, bidding 10@15c lower than on Monday; tops \$11.50; choice light hogs \$11.10@11.40; most 210-240-lb. butchers \$10.85@11.25; bulk 250-300-lb. butchers at \$10.50@10.75; packing sows at \$7.50@7.75 mostly; better grade pigs \$10.75@11.25; good packers inactive.

Cattle.

Receipts 11,000. Market slow; weak on practically all classes; killing quality fat steers plain; heavy kind very scarce; best heavies \$13.15; bulk \$9.75 @11.75; packers and feeders slow and steady, mostly \$8@9; most bulls \$7@7.25; top Holsteins around \$7.35.

Sheep and Lambs.

Receipts 10,000. Market is slow; no early sales; weak to 25c lower; fat wool lambs on steady prices; sheep steady.

DETROIT.

Cattle.

Receipts 238. Market opening steady but very slow. Good to choice yearlings

dry-fed	\$10.00@	10.75
Best heavy steers, dry-fed	9.25@	10.50
Handy weight butchers		
Mixed steers and heifers		
Handy light butchers	6.25@	8.25
Light butchers	6.00@	7.00
Best cows	6.00@	8.00
Butcher cows	5.25@	6.00
Cutters	4.25@	4.50
Canners		4.00
Choice light bulls		7.50
Bologna bulls	5.75@	7.25
Stock bulls	5.75@	6.25

Others 8.00@ 10.50
Sheep and Lambs.
Receipts 2,077. Market steady.
25c higher on lambs; sheep steady.
Best lambs\$15.00@15.28
Fair lambs 11.50@13.26
Light to common lambs 9.00@11.28
Fair to good sheep 6.00@ 9.50
Bulk wool lambs 16.29
Culls and common 3.00@ 4.50
Best clipped lambs 13.00@13.50
Hogs.
Receipts 2,054. Roughs 10c higher
others 15@25c lower.
Mixed\$ 11.50

	Receipts 2,054. Roughs 10c higher others 15@25c lower.	r
	Mixed\$ 11.	5
	Roughs 9.	3
	Pigs, lights and yorkers 11.	5
ŝ	Stags 7.	5
55	Heavies	
	Extreme heavies 10.00@10.	2
	BUFFALO.	
	Hogs.	

Receipts 960. Market around steady; pigs normally \$12.50 down; 160-180 lbs. \$12.25; 190-210 lbs. \$12; 225-240 lbs. \$11.65@11.75; few 265 lbs. at \$11.25; 311 lbs. \$10.75; packing sows at \$9.50 @ 75

Q9.75.

Cattle.

Receipts 100. Market around steady.
Few late cutters at \$9.25.

Calves.

Receipts 300. Market is steady to strong; tops \$15.50, few at \$16; culls and common \$10@11.50.

Sheep and Lambs.
Receipts 500. Quality plain; market steady; few good to choice clipped lambs \$12.25; few good culls \$16; culls and common clipped \$11.50@12.50.

PLAN TO ATTEND.

DURING the first week of August the American Country Life Association and a number of allied organizations will hold sessions at the Michigan State College. A camp is being arranged so visitors can bring their families and their camping outfits, and at little cost spend the week enjoying the various programs.

LAMB PRICES REACT.

LAMB prices advanced to a Chicago top of \$16.85 for fat Colorados, but a setback occurred in the last few days. Shorn lambs sold as high as \$15.75, and native springers designed for Easter trade at \$22. Receipts at leading markets remain moderate, and arrivals of California spring lambs on eastern dressed meat markets have exerted no depressing effect, but probably helped to halt the advancing tendency. Some frozen native and Argentine lamb carcasses are being offered in the east. In the feedlots of northern Colorado and western Nebraska, which have most of the remaining supply of fed lambs, there were estimated to be 442,000 head still on feed on March 26, compared with 560,000 a year ago and 685,000 two years ago. vears ago.

HOG MARKET ON SLIPPERY FOOT-

H OG prices have been extremely erratic in the last three weeks. The market has had two fair rallies, but these did not hold and, at present, values are the lowest of the season. Since the first of the year, the numbers available for slaughter have been slighly larger than last year and the stocks of product in storage are rather burdensome in the face of the continued narrow export demand.

Stocks of hog meats at Chicago increased 46,000,000 pounds since January 1, compared with an increase of only 13,000,000 pounds last year. In

March alone, they gained 21,000,000 pounds, against a decrease of 2,000,000 pounds in 1926. Stocks, of lard increased 21,000,000 pounds since January 1, against a gain of 25,000,000 pounds a year ago. Prices of hogs in Germany, and of Wiltshire sides in Liverpool are about 25 per cent lower than last year. This is more of a decline than has occurred in our prices, hence the difficulty of making export sales.

Little change in the market conditions for killing cattle is probable in the next month or two. By that time, grass cattle will begin to appear on the scene. Some of the southern cattle at Kansas City already show signs of a grass diet, but the early supply of grassers from Texas will be moderate. South Texans sold at Kansas City recently at \$8.60, the highest since August, 1920. The veal calf market strengthened under pre-Easter demand for choice vealers, but further weak spells are probable in the next thirty days.

Stocker and feeder cattle prices keep

Stocker and feeder cattle prices keep edging upward. Demand is fairly persistent in spite of the high price level and supplies reaching the principal markets are scanty. The total numbers purchased recently have been nearly as large as last year, but considerably smaller than two years ago.

Demand for Veal is Good Ship Your

DRESSED CALVES and LIVE POULTRY

TO

DETROIT BEEF COMPANY

1903 Adelaide St. Detroit, Mich. Oldest and Most Reliable Commission House in Detroit

Tags and Quotations and New Ship-Guide Free on Application.

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. Foultry 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 abbreviations, initial or number. No display type or illustrations admitted. Remittances must accompany order.

Live stock advertising has a separate department and is not ascepted as classified. Minimum charge 10 words.

Special Notice all advertising copy discontinuance orders or change of copy intended for the Classified Department must reach this effice ten days in advance of publication date.

1080.80	\$2.40	2632.08	\$6.34
11	2.64	27 2.16	6.48
12	2.88	28 2.24	6.72
18 1.04	8.13	29 2.32	6.96
14 1.18	3.86	80 2.40	7.20
15 1.20	8.60	81 2.48	7.44
16 1.38	8.84	32 2.56	7.68
17 1.36	4.08	38 2.64	7.92
18 1.44	4.82	84 2.72	8.16
19 1.52	4,56	35 2.80	8.40
20 1.60	4.80	86 2.88	8.64
21 1.68	8.04	37 2.96	8.88
22 1.78	5.28	38 3.04	9.12
28 1.84	5.52	89 8.12	9.36
24 1.92	5.76	40 3.20	9.60
25 2.00	6.00	41 3.28	9.84

REAL ESTATE

FOR SALE—FARM OF 355 ACRES on paved road M-17 one mile from Francisco Station, M. C. R. R. about six miles West of Chelsea, 20 miles West of Ann Arbor, 17 Miles East of Jackson, Michigan, About 290 acres of plow land under fine state of cultivation; balance woods, pasture land and huckleberry marsh. Dark heavy soil. Fences in good repair, Fine brick house with large wood furnace, 3 basement barns, garage, chicken house and other out buildings. It is known as the Michael Schenk farm and is one of the very best farms in Southern Michigan. It would make an ideal country home. No better in Michigan for farming purposes. For full particulars, see or write, Elmer Kirkby, Attorney and Administrator, 124 Michigan Ave. West, Jackson, Michigan.

RECEIVER'S SALE—1000 acres fine pasture land in one field, woven wire fenced, watered by fine trout stream, one mile to railroad, three miles to good town, in Michigan's best dairy and sheep section. Price \$8.00 per acre. Write W. F. Umphrey, Evart, Michigan.

FOR SALE—110 acres, with milk route, dairy he Complete equipment. Income last year, four thousat Immediate possession, immediate income. W. Stickle, Owner, Three Oaks, Mich.

FOR SALE CHEAP—00 acres, stock grain and fruit farm. Good buildings and soil. Well fenced. One mile Oneway County Normal. H. S. Gillespie, Ona-way, Mich.

FOR SALE—180 ACRES—less than 1 hr. by truck to Cleveland or Akron, best markets, cement road, good land, buildings, School. Address Box 92, Mich-igan Farmer, Detroit, Mich.

SACRIFICE—135 acres on State Highway. Productive soil and good buildings. ½ ml. to markets. Owner, F. Slanker, 436 S. Division, Ann Arbor, Mich.

WONDERFUL OPPORTUNITIES—Southern Georgia farm lands. Write for complete information. Cham-ber of Commerce, Quitman, Ga.

FOR SALE—79 acres, good buildings, four miles from Gaylord, Henry Widger, Gaylord, Mich.

WANTED FARMS

WANTED—To hear from owner of farm or unimproved land for sale. O. Hawley, Baldwin, Wis.

MISCELLA NEOUS

NOTICE—Those interested in the Pacific Coast send 50c for three months' trial subscription to the Dairy Journal, 1033 Chamber of Commerce Bldg., Portland, Oregon.

FOR SALE—20 hives of bees, frames, excluders, comb supers, other equipment. No disease. Thomas J. Herivel, 9339 Burnette, Detroit.

FOR SALE—A Hercules Stump Machine in good order. Inquire of Mr. Lewis Lake, Lum, Mich.

SPECIMENS WANTED—Meteorite or natural metal-lic iron. Stuart Perry, Adrian, Mich.

CHOICE EXTRACTED HONEY-5 lbs. \$1.00 post-paid. Homer Buzzard, Fenton, Mich.

FARM MACHINERY

FOR SALE—One Judson Bean Picker with mill and gas engine complete. Clarence Wilcox, R. 6, Brown gas engine City, Mich.

PATENT ATTORNEYS PATENT SENSE—valuable book (free) for inventors seeking largest deserved profits. Lacey & Lacey, 694 F St., Washington, D. C., Established 1869.

MATTRESSES

MATTRESSES made any size, low factory prices Catalog free. Peoria Bedding Company, Peoria, III.

MISCELLANEOUS WANTED

BIGGER CREAM CHECKS depend upon correct weight and tests, and price received for butter by the firm to whom you ship your cream. We are located in the Fruit Belt and tourist section where the highest prices for butter prevail. We guarantee satisfaction and protect you from any loss. We mail check the same day cream is received. For information and shipping tags, write The Hartford Creamery, Hartford, Mich.

PET STOCK

FOR SALE—English Shepherd pupples, seven weeks old, from strictly heel driving parents. Males \$7, females \$5. One English Shepherd female, 1-yr.-old, heel driver, \$20. English Shepherd female 3 yrs. old, broken, a heel driver, and gets cows alone, \$25. Safe arrival and satisfaction guaranteed. Earl White, Live Stock Dealer. Arcade, N. Y.

FOR SALE—Pedigreed White Collie Pups from natural heelers. Make fine stock dogs and companions. Price \$10 and \$15. Also pedigreed police pups \$15 and \$20 cach. Homestead Kennels, Saranac, Mich.

FOR SALE—A few extra nice white collies, farm bred, at farmer's prices. J. E. Hegner, R. No. 4, Reed City, Mich.

COLLIES—stock dogs, beauties. Write for pictures. Cloverleaf Farm, Tiffin, Ohio.

SEEDS AND NURSERY STOCK

CABBAGE PLANTS. My frost-proof cabbage plants will head three weeks carlier than home-grown plants and double your profits. Varieties: Copenhagem Market, Jersey and Charleston Wakefield, Succession, Flat Dutch and Golden Acre. Prices, by express in quantities \$1.00 per 1000. By mail, postpaid, 500 for \$1.25; 1000 for \$2.25. Tomato plants leading varieties, by mail, postpaid: 500 for \$1.50; 1000 for \$2.50. By express, 10.000 and, over, \$1.50 per 1000. All plants wrapped in damp moss to assure safe arrival. Prompt shipments, satisfaction guaranteed. P. D. Fulwood, Tifton, Ga.

TIFTON'S RELIABLE PLANTS. Frost Proof Cabbage. Bermuda onion plants. Varieties: Copenhagen Market, Early Jersey and Charleston Wakefield, Flat Dutch, and Succession. Tomato plants. Varieties: Greater Baltimore, Bonnie Best, Earliana, and Livingstone Globe. Prices: Postpaid, 250, \$1.00; 50, \$1.50; 100, \$2.50. Express collect: \$1.50, 1000; 10.000 and over \$1.25, 1000. We guarantee to ship size to please you. References: Bradstreet, Bank of Tifton, and Postmaster. Tifton Plant Co., Tifton, Ga.

MASTODON—the marvelous everbearing strawberry, 100 plants \$3. Raspberry, grapes, shrubs, 12 spirea \$1. 100 Eldorado Blackberry \$1.75. Cherry trees, fruit, shade. Everything to plant. Seed potatoes. 100 Washington asparagus roots 75c, 1000 2-yr. \$7. Gardeners Hubbard squash seed \$1 pound. Wax beans, sweet corn, 1000 strawberry plants \$3. Write. Prestage Nursery, Allegan, Mich.

REGISTERED AND CERTIFIED SEED CORN— Clement's white cap yellow dent, fire-dried on racks ear tested and germination guaranteed. Also Worths seed oats. Good Seed is scarce, order yours early, Paul Clement, Britton, Michigan, Member of the Mich. Crop Improvement Association.

SEED CORN—Fire Dried. Certified Polar Yellow Dent (frost resistant) \$7.00 per bu. Duncan Yellow Dent (good for ensilage or grain crop) \$6.00 per bu. 90-day eight-rowed Yellow Flint \$5.00 per bu. All corn is shelled and graded, 56 lbs. to the bu. Bags free. Arthur W. Jewett, Jr., Mason, Mich.

COPENHAGEN and Wakefield Cabbage plants. \$1.00 1000. Collard \$1.00; tomato \$1.00; Bell Pepper \$1.50; onion \$1.25; Porto Rico Potato \$2. Large, open field grown. Carefully packed. Quitman Plant Co., Quitman. Georgia.

PURE SEEDS of high germination. Certified Pickett Yellow Dent corn \$7 per bu. Certified Wisconsin Pedigree barley, grown from head-selected seed stock, \$1.50 per bu. Certified Robust beans \$4.50 per bu. Fritz Mantey, Fairgrove, Mich.

GUARANTEED GRAPE PLANTS from highest producing vineyard in Michigan. Lowest prices ever quoted. Garden collection Concords, Niagaras, Delawares, six each, dollar prepaid. Local agents wanted. Root & Son. Paw Paw. Mich.

FROST-PROOF CABBAGE—onions, also tomatoes, strong hardy plants. Leading varieties, 100, 40c; 300, 85c; 500, \$1.10; 1,000, \$2.00. Pepper, 100, 50c; 1,000, \$2.75. Everything postpaid and guaranteed. East Texas Plant Co., Ponta, Texas.

WOLVERINE OATS SOLD OUT—Improved Robust Beans, absolutely pure, choice stock, \$7.00 per hun-dred, freight prepaid. America Banner Wheat. A. B. Cook, Owosso, Mich.

FROST-PROOF CABBAGE and onlon plants; large rooted, quality plants. All varieties. Quick ship-ment, Postpaid. 500, \$1.00. Expressed 75c thou-sand. Hollywood Farms, Pavo, Ga.

FROST-PROOF PLANTS—Bermuda Onion, large type, early Wakefield Cabbage, 500, 75c; 1,000, \$1.25; 5,000, \$5.00. Now shipping, Satisfaction guaranteed. Other plants, Catalog, valuable information free. Progress Plant Co., Ashburn, Georgia.

ASPARAGUS ROOTS—quality and price are right.

Price list and culture directions free, J. C. Dunham,
Lawton, Mich.

FOR SALE—Northern grown Certified Golden Glow seed corn and Certified Robust Seed Beans. L. G. Van Liew, Bellaire, Michigan.

WASHINGTON ASPARAGUS ROOTS—one year old. \$1.50 per hundred, delivered. H. G. Bliss, Alblon, Mich.

STRAWBERRIES, \$3.00 to \$3.50 1,000; raspberries, blackberries, grapevines. Wholesale prices. Cloverleaf Nursery, Three Oaks, Mich.

FOR SALE—Strawberry and raspberry plants, Dunlap \$3.50 per 1000. Write for bargain prices. Fred Stanley, Bangor, Mich.

CHOICE SEED SPELIZ and Certified Wisconsin pedigreed six-row barley, \$1.50 bu. Harry Box, Lansing, Mich.

FOR SALE—1925 Certified Wolverine Oats and Wilk's Two-row Barley. John C. Wilk St. Louis, Mich.

60 LARGE CLADIOLI \$1. None alike. 12 Dahlias, \$1.25. Catalogue. A. Sherman, Chicopee Falls, Mass.

TOBACCO

SEND US 5 NAMES of tobacco users with order for 4 lbs. of our tobacco for \$1, and get an extra lb. free. Pay when received. Farmers' Association, West Paducah, Ky.

HOMESPUN TOBACCO—Guaranteed, good flavor. Chewing, 5 lbs., \$1.00; 10, \$1.75. Smoking, 5 lbs., 75c; 10, \$1.25. Pay when received. Farmers' Union, Mayfield, Ky.

QUARANTEED HOMESPUN TOBACCO: Chewing, 5 lbs., \$1.00; 10, \$1.75. Smoking, 10, \$1.50. Pipe Free! Pay when received. United Farmers, Bardwell, Kentucky.

SEND ME—the name and address of 10 tobacco users with 25c to cover postage and get 2 lbs. of tobacco free, state what kihd wanted. Roy Cariton, West Paducah, Kentucky.

POULTRY

PULLETS, COCKERELS—A bargain in eight-weeks Barred and White Rocks, Reds, Leghorns. If you want a flock of laying hens for this fall and winter, we want you to read the description and see the price of these birds. Send for our Pullet and Cockerel Circular. State Farms Association, Kalamazoo, Mich.

GEESE EGGS THAT HATCH!—Fourth successful season as shippers of Mammoth Toulouse eggs, Price 50c each postpaid. Sold under guarantee of fertility. Goslings \$1 each. Order from this ad today. Harthorne Hill Farm, Middleville, Michigan.

WHITTAKER'S MICHIGAN CERTIFIED REDS-BOTH COMBS—Trapnested. Bloodtested. Michigan's Greatest Color and Egg Strain. Chicks, Eggs. Cock-erels. Catalog Free. Interlakes Farm. Box 9. Law-rence. Mich.

BARRED PLYMOUTH ROCK hatching eggs and baby chicks from our high record egg producing strain. Circular on request. F. E. Fogle, Okemos, Mich.

HATCHING EGGS S. C. Rhode Island Reds, trap-nested. Splendid color and type. Record layers. Prices reasonable. Write for circular. Koenig & Banne, Holland, Mich., R. 4.

HATCHING EGGS—S. C. Rhode Island Reds, purebred. 15 eggs \$1.50, prepaid. Victor Nienie, B. No. 1, Trenary, Mich.

PULLETS One thousand twelve weeks old Leghorn pullets for sale. Feb. hatched, July and August layers. H. L. French, Pomeroy, Ohio.

S. C. BUFF LEGHORN CHICKS—Michigan State Accredited. Send for circular. J. W. Webster & Son, Bath, Mich.

ROSE COMB RHODE ISLAND REDS—Hatching Eggs \$1.25 for 15. \$7.00 per 100. Postpaid, Mrs. Albert Harwood, R. 4, Charlevoix, Mich.

RINGLET BARRED ROCK EGGS—\$6 per hundred. Blood tested and Michigan Accredited flock. Robt. Martin, Woodland, Mich.

BARRED ROCK EGGS—Heavy layers. Blood tested. State accredited. Write for prices. W. F. Alexander. Owosso, Mich.

PURE TOULOUSE EGGS, \$4.50 per 10. Loyd Southworth, Allen, Mich.

WHITE LEGOHRN PULLETS and Cockerels, best stock, lowest prices. John Wolding, Holland, Mich.

TURKEYS

WHITE HOLLAND TURKEYS, toms and hens. Tou-louse ganders; White Pekin ducks, drakes. Aldem Whitcomb, Byron Center, Mich.

TURKEY EGGS—Thousands of them. All breeds. Special prices. Eastern Ohio Poultry Farm, Bealts-ville, Ohio.

BABY CHICKS

KLAGER'S 'PURE-BRED' CHICKS are from healthy parent flocks culled for egg production. Will grow
into profits for you. Most quality per dollar. CertO-Culd Chicks. Five leading breeds. White Rocks,
Barred Rocks, Rhode Island Reds, White Leghorns,
White Wyandottes. Get information about our chicks
before placing your order for the season. Order now
—chicks delivered when you want them. 100% live
delivery. Postage prepaid. Descriptive circular free,
Klager's Hatchery, Bridgewater, Michigan.

MICHIGAN ACCREDITED CHICKS—Buy your chicks from heavy laying flocks that are officially accredited by inspectors supervised by Michigan State College, and of prize winners at the Holland Poultry Show. White and Brown Leghorns, Anconas, Barred Rocks, S. C. R. I. Reds. 190% live delivery postpaid. Sand at once for free catalogue. Chicks, 8 cents and up. Full particulars and detailed prices. Hillview Hatchery, C. Boven, Prop., Holland, Mich., R. 12, Box B.

WHITE LEGHORN CHICKS sired by pedigreed males, records 200 to 293 eggs. Low prepaid prices. Shipped anywhere C. O. D. and guaranteed. Hatching eggs, cockerels, pullets, hens, egg-bred 27 years, Winners at 17 egg contests. Write for free catalog and special price bulletin. Geo. B. Ferris, 934 Union, Grand Rapids, Michigan.

WE HATCH ONLY GENUINE Tom Barron English White Leghorn large type overlaying combs, with egg laying qualities. Non-setters, Barred Rocks from M. S. C. stock . 1927 flocks headed with cockerels whose dams have official trap nest records, 203-233 M. S. C. egg laying contest. Free cricular explaining all. Hillside Hatchery, Holland, Mich.

REDUCED PRICES ON BABY CHICKS for May. 100% live delivery. Guaranteed pure-bred. Leghorns 10c; Rocks and Reds 12c; Wyandottes and Orpingtons 13c. Discount on large orders. Send for free catalog and prices. Model Hatchery, Box 9, Monroe, Indiana.

GOOD STOCK—Michigan Accredited, blood-tested for four seasons, and eleven years' experience operating incubators, enable us to produce big, fluffy chicks ready to live and grow. Seven breeds hatching each week. Catalog. Pierce Hatchery, Jerome, Michigan.

BABY CHICKS—Healthy chicks from carefully culled flocks of the following breeds: W. Leghorns, W. Wyandottes, Barred Rocks, S. C. R. I. Reds. High quality and reasonable prices. Jones Chick Hatchery. 60 S. Monroe St., Coldwater, Mich.

MICHIGAN ACCREDITED blood tested Chicks back-ed by real bred-to-lay breeding and at live and let live prices. Quick service. 100% live delivery, and a square deal. Big discount on large orders. Catalog free. Carl Poultry Farms, Dept. A, Montgomery. free. Mich.

BABY CHICKS—White Leghorns, \$10 per 100; White Rocks, R. I. Reds and Barred Plymouth Rocks, \$13 per 100. Prepaid by parcel post. Snowflake Poultry Farm & Hatchery, R. 5, Middleville, Mich., L. Van-Schie, Prop.

BABY CHICKS—English S. C. W. Leghorns at \$10 per 100, 100% live delivery guaranteed. Order from this ad and save time. Waterway's Hatchery, R. No. 4, Holland, Mich.

CHICKS—Pullets, Barron's large English White Leg-horns, We import direct from England. Breed Eng-lish Leghorns only. Catalog free. Willacker Poultry Farm, Box M. Washington, Ohlo.

QUEEN QUALITY ACCREDITED CHICKS—Hollywood and Tancred, S. C. White Leghorns, \$11 per 100. Bared Rocks, S. C. and R. C. Reds, \$14 per 100. Queen Hatchery, Zecland, Mich.

BABY CHICKS AND EGGS—Superior Ringlet Barred Rocks. Rose Comb Reds. Barron and Tancred Wyndham's Ideal Poul-try Yards. Tiffin, Ohio. BABY CHICKS—Standard varieties from strong pro-ducing and carefully culled flocks. Circular of prices, also discounts in large orders. Shepard Poultry Farm Litchifield, Mich.

RICHARDSON'S ROCKY RIDGE Barred Rock Baby Chicks, from stock blood-tested third time for Bacul-lary White Diarrhea. W. T. Richardson, Hanover, Mich.

PULLETS—6 to 10 weeks old. Chicks of 15 varia-ties. Can ship at once. Some blood tested. 175 to 312-seg breeding. Free Circular. Beckman Hatch-ery, Grand Rapids, Mich.

HI-GRADE LEGHORN CHICKS—April 10c, May 9c. Hatchery, R. 3, Zeeland, Mich.

EXPERIENCED FARMER wishes change, ten years' practical experience on College farm, six years managing present farm. First-class ploughman, well up in cow testing and general farm management. Scotch age 33. Michigan Farmer, Box 93. Detroit, Mich.

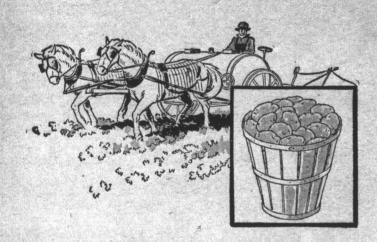
WANTED—Position as herdsman, expert milker and caretaker. Prefer good dairy section. Box 94, Mich-igan Farmer, Detroit, Mich.

AGENTS WANTED

HATCHING EGGS—S. C. Rhode Island Reds, trapnested. Splendid color and type. Record layers, Prices reasonable. Write for circular. Koenig & Banne, Holland. Mich., R. 4.

BUCKLINGS WANTED—Only Michigan farmers and hatcheries need answer. Write J. Taylor, 136 North Post Ave., Detroit, Mich.

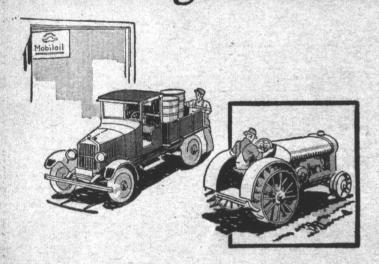
What experiment stations report on potato spraying



In 323 tests during the past nine years, a Pennsylvania experiment station has compared the yield of sprayed and unsprayed potatoes. The sprayed vines have produced an average of 67 bushels of potatoes more per acre than those not sprayed.

In North Carolina 10-year tests show an average increase from spraying of 53.3 bushels per acre. Ohio demonstrations during the past 3 years have averaged an increase of 70 bushels per acre for the sprayed vines.

Mobiloil gives this same marked economy



Buying low-priced oil is like trying to save money by not spraying potatoes. To be sure, you pay a few cents extra for Gargoyle Mobiloil. But you get an engineering margin of safety in lubrication which is worth many dollars in a year's running.

In tractors, Mobiloil users frequently report that Mobiloil lasts twice as long as ordinary oil. And the costly delays from overheating and breakdowns are materially cut. In cars and trucks Mobiloil's economy is equally striking.

If you think any oil will do, consider this fact:

THE correct grades of Gargoyle Mobiloil for engine lubrication of prominent passenger cars are specified below.

The grades of Gargoyle Mobiloil, indicated below, are Mobiloil "E," Mobiloil Arctic ("Arc"), Mobiloil "A," Mobiloil "BB," and Mobiloil "B."

Follow winter recommendations when temperatures from 32° F (freezing) to 0° F (zero) prevail. Below zero use Gargoyle Mobiloid Arctic (except Ford Cars, use Gargoyle Mobiloid *E").

If your car is not listed below see any Mobiloil dealer for the complete Chart. It recommends the prorrect grades for all cars, trucks and tractors.

	1927		15	1926		1925		1924	
PASSENGER CARS	Summer	Winter	Summer	Winter	Summer	Winter	Şummer	Winter	
Buick	A BB	Arc.	A BB	Arc.	A	Arc.	A	Arc	
Chandler Sp. 6.	A	A	DD	Arc.	1	nie.	1 "	Aic	
other mods.		Arc.	A	Arc.	A	Arc	A	Arc	
Chevrolet	Arc.	Arc.				Arc.		Arc	
Chrysler 4	A	Arc	A	Arc.		Arc			
" other mods.		A	A	A	A	A	A	A	
Dodge Brothers	AE	Arc.	A	Arc	AE	Arc.	AE	Arc	
FordFranklin		BB	BB	BB	BB	BB	BB	BB	
Hupmobile		Arc.	A	Arc	A	Arc	A	Arc	
Iewett		Arc.	A	Arc	A	Arc	A	Arc	
Jordan 6	200	2393			Arc.	Arc.	Arc.	Arc	
* 8	A	Arc.	A	Arc.		Arc.		5.34	
Lincoln	A	A	A	A	A	A	A	A	
Moon	A	Arc.	A	Arc.			Arc:	Arc	
Nash	A	Arc.	A	Arc.	A		Arc.		
Oakland	A	Arc.	A	Arc.	A	Arc.	A	Arc	
Overland	A	Arc.	A	Arc.		Arc.		Arc	
Packard 6	A	Arc.	A	Arc.		Arc.		A	
" 8.	A	Arc.	A	Arc.	A	Arc.	A	Arc	
Paige	A	Arc.	A	Arc.		Arc.	Arc.	Arc	
Pierce-Arrow	A	A	A	A	A	A	A	A	
Star	A	Arc.	A	Arc	A	Arc.		Arc	
Willys-Knight 4	300		В	Arc.	В	Arc.	В	Arc	
" " 6	A	Arc	A	Arc	A	Arc.	E2004		



50% of all engine troubles are directly caused by faulty lubrication. The oil you pour into the crankcase today determines the size of tomorrow's repair bills. The added margin of safety in Mobiloil is important, both in postponing expense and increasing the usefulness of your engines.

When necessary, many farmers find that Mobiloil is well worth a special trip to town. Let the nearby dealer supply you with a season's supply of Mobiloil, now. In barrel and half-barrel lots Mobiloil can be purchased at a substantial saving.

Be sure to secure the right grade of Mobiloil to use in your tractor, truck and car. For Mobiloil is recommended with scientific accuracy for all engines. The 42 Mobiloil engineers have painstakingly studied each make and model of engine that you drive. The recommendations are in the complete Chart at all dealers.

Start using Mobiloil today. Before the year is out you will find that the extra margin of safety in Mobiloil has substantially reduced the cost of operation of your car, truck or tractor.

VACUUM OIL COMPANY

MAIN BRANCHES: New York, Chicago, Philadelphia, Boston, Buffalo, Detroit, Pittsburgh, Minneapolis, St. Louis, Kansas City, Dallas

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