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VOLUME CLX NUMBER TWENTY-ONE

DETROIT, MAY 26, 1923

CURRENT COMMENT

Let us improve our community by substituting self-starters for cranks.

That old straw stack moved back to the field and spread evenly will pay bountifully for your pains.

By adding green stuff, fruit and dairy products to our food, we will furnish plenty of "spark" to fully combust the other things we eat.

When will our, civilization be properly balanced? Rural population increased three per cent while city population was jumping twenty-nine per cent.

Policy or **Politics** at M.A.C.?

THE thousands of readers of the Michigan Farmer who have a keen interest in the welfare of the

Michigan Agricultural College, have read with regret the current press reports indicating a serious clash between prominent members of the State Board of Agriculture and President Friday. This regret has doubtless been accentuated by the nature of the reports, which allege that a secret meeting of members of the board was held at the office of one of their number, during President Friday's absence from the state last week, at which his retirement was discussed and agreed upon. Later reports include denials of the action, but seem to fully substantiate the discussion of the retirement, since an associate of one of the members in farm organization work, who was designated to speak for him in a published interview, defended the alleged action by stating that the farmers of the state were dissatisfied with President Friday's policies and program.

Briefly stated, this program was directed toward the elimination of waste which would cheapen the cost of production on Michigan farms, and the development of Michigan markets for the products of Michigan farms, or the production of products demanded by home markets with - the consequent elimination of waste in transportation and distribution. Whether it is true that the farmers of the state are opposed to this program is a question for the farmers themselves to answer. We shall be glad to receive their expressions on this point.

At this time but one fact seems entirely clear. The manner in which the acceptability of President Friday's service to the college seems to have been approached by the members of the

board who attended this meeting, and ments along this line. The market is and the plant lice were still resting the state. The extent and permanence the sequence of events and the extent unfold for him. to which current reports and rumors are substantiated or proven untrue.

A minimum of injury will now be done the college and its work for Michigan agriculture if full publicity is given to the issue which has been raised, as rapidly as facts regarding it can be fairly established. The Michigan Farm. did not think a man could ask so welfare of the institution for the ben- chisel. efit of Michigan agriculture. This is of far greater import to the farmers of the state than any or all of the personal considerations involved. We believe this end will be best served by presentation to our readers of the true facts relating to this controversy as they may be fairly established, which presentation will be given in future issues.

JUST now the great wealth producing and highly essential **Buyer's** pure-bred live stock Market industry is at low water mark. Contrasted

with the prices at which pedigreed animals were selling a few years ago, present quotations are little above give-away values.

A

The four-figure prices of those days were as far above the average true values as present prices are below. As these extreme high figures were a danger signal to the far-seeing men in the business, so the present investment opportunities are enticing to men with ordinary insight.

We are just now passing through a period of depression such as occurs at tervals in the live stock business, and which wise investors are in the investments in pure-bred live stock at the present time can hardly fail to lead to better things ahead. For like reasons, the man who already has good animals will do well to give careful attention to the increase of his herd, biding the time when, as a seller he will be in a position to command profitable prices.

Fortunate is he who is prepared now

some extent the work of the college discretion in making his selections, low-up operations, can await with conof this injury will depend largely on fidence what the next few years may thought the matter through and re-

> ware store recently and just ahead of me at the counter was purchasing tools. I

er's sole interest in the matter is the many questions about a hammer, or a

Tools

and

Stock

When he had selected what he wanted, I asked him why he was so particular about the tools he bought. The man was of foreign birth and had not fully conquered the English language. abandoned, but will be planted in reg-He replied:

"Poor tools, he do no good vork. Good tool, good man, good vork."

I happened to know that this man was a most excellent carpenter, and that his services were in demand by those wanting high-class work done. What is true of carpentry work seems also to be true of the stock business. Good results are as impossible with scrub stock as with scrub tools, and the man who is seeking to improve his live stock business will go to every pains to make sure that he is getting good individual animals to go into his herds or flocks.

A MICHIGAN farm-er who does not Less Bugs wish to have his name and More mentioned, pastured Cows

if estimates are correct, nearly one and a half million potato bugs, over sixty-three million plant lice and leaf hoppers, and one dairy cow.

The potato tops in his forty-acre habit of taking advantage of. Careful patch grew luxuriantly and provided the finest sort of feed for the bugs and brother insects, but in spite of the good growth the outcome was most disappointing. No exact figures had been kept to enable him to analyze the situation to its last detail, yet he knew that the income did not make sufficient to pay for the labor required and the seed used.

Before the last load of potatoes had with cash or credit to make invest- been hauled and while the potato bugs

the publicity given it was most unfor- now in the buyer's hands, and the man peacefully in their winter quarters, tunate. It cannot fail to injure to who takes advantage of it and uses this man was thinking very hard. He walked the floor and occasionally stopand its influence on the agriculture of and good business judgment in his fol- ped before the fire to meditate as to the end of it all. However, he finally solved to make a change.

So here is what he is now doing: WAS in a hard- The old stables are being remodeledcement floors, more and larger windows, good stanchions and mangers will soon be completed. A ten by a carpenter who was thirty silo is lifting its head above the eaves of the old barn. Four good, high-grade Guernseys have been brought to the farm and others will come as soon as they can be found. Two neighbors have joined with this inspired farmer to purchase a purebred sire.

Potatoes, we are told, will not be ular rotation with other crops needed to keep the cows. Sweet clover, alfalfa and corn will be prominent in this crop list.

Our prediction is that, in the course of five years, this farmer will look back to his potato crop of 1922 as most valuable because it set him to thinking and was the means of lining him up on the right side of the dairy cow and of starting him in diversified farming.

The Weather

THIS is hard to say somethin' about, 'cause you never know how the weather is goin' to be, and you don't care how it was except to remember so you kin tell the youngsters what big snow storms there was when on his farm last year, Grandpop was a pup.

Seems like the weather we are havhavin' now has lost its wigor and witality, accordin' to the Grandpops of today. But it just kinda looks to me that the May snow storm we got lately in our neck of the woods shows the weather musta got a graftin' of monk-. ey glands or such like, and got its youth renewed.

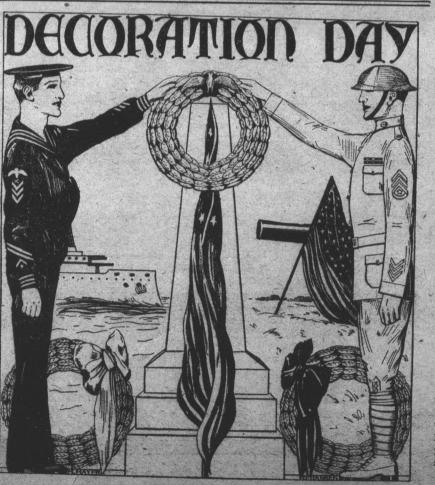
There ain't nothin' whats' talked about more'n the weather, 'cause there ain't nothin'

what is so nice to start a conversashun with. It's a newtral subject. And it's all right, 'cause it helps you to find out somethin' a bout the other fellow. For inst., when

you say, "This is nice weather, ain't it?" And the other fellow says, "Yes, but I think it's goin' to rain," right away you know he is a fellow what notices the thorns more'n the roses. He is what you call a pessimist. Then if you say, kinda nice-like, "Yes, but I think the rain will be good for the crops," he'll know that you kin see the bright side of everything, even a bald head.

In these days when the matrimonial condishuns of folks changes so quick, you don't always know what to say to the lady friends you meet. So, you kin say that the weather is nice and the lady will say, "Yes, it's just like the weather was when I left my last husband." Then you got a subject you kin talk about-I mean, listen to -for a hour or more. Womin folks, you know, is naturally good talkers, especially on such subjects, and men, from bein' in company of womin, has been trained to be good listeners.

Right here Sophie starts talkin'. She says I ought to be out sproutin' potatoes instead of spoutin' about the weather. She says I'm wastin' my own time and lots of other folkses with this dumb stuff. Maybe it's so. As I've been married nigh to twenty-five years, you kin safely bet I'm goin' to start sproutin' and stop spoutin'. HY SYCKLE.



Pointers on Painting by a Painter A Business Where a Little Knowledge Often Saves Many Dollars

NE can safely say that fifty per cent of the framers' buildings in the United States need painting. The author reached this conclusion and it stands to reason that a manu. Sulphate of lime or gypsum (also one available that is capable of drying when crossing the country by rail between the Great Lakes and the Pacific over two different routes and noticing chinery for the grinding and mixing the condition of the buildings along can put out a much better mixture manner, as it does not work as freely the right-of-way in the country through than the local painter, who buys his under the brush as the pure zinc or which he passed.

If you are among the fifty per cent whose buildings need paint, and you paint them this year, you will have made an investment that will be offset cal painters that in order to keep up three ways: You can take credit for the amount it cost you on your income tax return; it will add more than what material used and speed the work up it cost you to the value of your place, and it will add years to the life of do a thorough job. your buildings. However, the main purpose of paint, when composed of a good combination of ingredients properly mixed and skillfully applied, is to form a complete weather-proof cover- materials that are being used. ing to all the wood and metal in your structure. Without this protection both wood and metal soon deteriorate.

Although the usual procedure followed in getting a job of painting done is to call for competitive bids on the work and let the job to the lowest bidder, one should have some knowledge of just what a good paint consists of. and have it definitely stated in the contract as to the kind of material to be used and how apllied.

A job of painting done with some of the cheap, adulterated materials that are found on the market today, and these improperly applied, is almost as good as no job at all.

It is not the author's policy in this article to boost any particular brand of ready-mixed paint, or to say a thing that will injure any brand. However, if a brand of ready-mixed paint that is put up by some good reliable house that has a large patronage, is being used, it is only reasonable to expect such a company will keep the quality of their goods up to a certain standard which will protect their future business

demands great skill and experience

By Clive B. Price

ence in the business, the proper mamaterial and mixes it on the job.

In many districts throughout the country the competition in bidding on jobs has become so keen between lothe standard of wages they have been forced to sacrifice the quality of the to a point where it is impossible to

This adulteration can be quite easily accomplished by a painter who mixes his own paint and has some knowledge of the many kinds of cheap of the tank. This is removed, dried,

These materials are found on the market under many different names. The raw material principally used in the manufacture of these adulterations is as follows: Carbonate of lime or chalk white from the chalk pits of England and France. Chalk contains magnesia, silica and clay. Paint containing a very large percentage of paint. chalk has a tendency to be gritty and does not work freely under the brush. ments used to adulterate paint. We

extensively to adulterate zinc white. This can also be detected in the same lead.

Baryta is a white stone found in veins with ores of lead, silver and mercury. This white stone is ground to a veryfine powder then cleaned of all foreign substances by a process called floating. This consists of mixing it with water and running it through a series of settling tanks. In the last tank, the milk-like substance is allowed to remain until the water clarifies, then the water is run off and a pure white substance is left in the bottom and ground again and is now ready for use.

In this form it is known as sulphate of baryta, and is used to adulterate both white lead and zinc. Baryta slides free from under the brush and makes a good paint, its only bad feature being the fact that it is less opaque, and does not cover as good as an all-lead

These are just a few of the pig-



The proper compounding of paint Much Time May be Saved During the Busy Summer Days by Providing an Outside Manger where the Horses Can Take their Noon Meals.

should also give some consideration to the relative quality of oils.

For all exterior work there is only facturer who has had years of experi- known as plaster of Paris), is used reasonably fast and forming the film or binder required to produce a good lasting job, and that is the raw pure linseed oil.

However, there are a great many substitutes being used today by painters in doing cheap work. The cheapest and poorest of these is a by-product of crude petroleum. This oil is doctored up with dryers and called various names.

A job done with this kind of oil will look fine while it is fresh, but at the end of thirty days will have the appearance of a job of calsomining.

Fish oil is sometimes used to adulterate linseed oil. In this case the binding qualities of your linseed oil is weakened in proportion to the amount of fish oil used.

The only substitute for linseed oil on the market that has any value as a paint oil is the true soya-bean oil. However, most of the so-called soyabean oils sold to painters is merely the residue left after extracting the finer grades for cooking oils. The one bad feature of the soya-bean product is that it is a very slow dryer. This makes it necessary to doctor it with artificial dryers.

When red lead, litheroge, or Japan dryers are used, the quality of the paint is impaired. Tungate or cobalt dryers give the best results with soyabean oils.

The most important feature in getting a good job of painting done is to see to it that all surfaces to be painted are first properly prepared.

All scale and blister should be removed with a steel scraper or steel brush. All surfaces where the old paint is decomposed so that it rubs upon the hand should be gone over thoroughly with a steel brush or a good stiff scrubbing-brush. If a good grade of paint is now used and well brushed in on the first coat, you will have a job of painting that will last and look well when the cheap jobs are being done again.

Making Money Spraying Spuds Satisfaction Comes Only When Tried and Proven Methods are Followed to the Letter HE potato is probably the most By M. D. Leonard important money crop grown in

America. Unfortunately_ it is subject to a great variety of insect control methods, already tried and proved, were generally put into effect spraying every two weeks. by growers, the loss of many millions of dollars would be prevented.

A big yield of sound tubers, free from rot cannot be obtained without large healthy tops which develop early and remain green until the crop is fully ripe. Injury to the leaves by hopperburn, flea-beetle holes and blight spots prevent their storing up starch in the tubers. Reduction of one-third to one-half of the leaf surfaces means a corresponding loss of tubers.

Here is some of the evidence which proves that the careful and thorough spraying of potatoes pays good dividends on the time and money invested in the operation, even when there are no bugs.

Vermont .-- In experiments conducted over a period of twenty years by the Vermont Agricultural Experiment station, an increase of an average of 105 bushels per acre was obtained.

New York .- A ten-year series of ex-

pests and plant diseases. If the known periment Station at Geneva gave an over the five year period. average increase of 97.5 bushels from

Minnesota .- An average increase of els increase per acre. forty-seven bushels per acre was obtained over a fourteen-year period and most conclusive demonstration of the

Michigan .-- Farmers' spraying tests have given as high as 130 to 166 bush-

Pennsylvania.-Without doubt the



Thorough Spraying is Necessary to Get Good Results.

value of proper spraying has been made at the Pennsylvania State College. The work has been conducted periments at the New York State Ex- lowa showed twenty bushels increase on a commercial scale by the growers themselves in cooperation with their county agents. The results were as follows:

Demonstrations 318 Acres sprayed Yield per acre, bu.... 6,**192** 258.3 Increase per acre, bu. Cost per acre\$10.56 Times sprayed Spraying Pays Even when Blight is

\$11.03

402

233.5

10,140

Absent. It is a well-established fact that cop-

per sprays have a stimulating effect on potato foliage which results in increasing the yield of tubers. In New York no blight occurred in 1918, yet an average of twenty-eight fields in seven counties showed an average increase of about thirty bushels per acre from spraving.

Professor Lutman, at the Vermont Station, found that by spraying at least four times during July and August, the yield could be increased fifteen to twenty-five per cent in the absence of blight. Wisconsin has obtained an increase in yield from spraying (Continued on page 725).

710-4



Engine The Farmer with a good big job wants a good engine just as much as he wants

good separator. Good, strong, steady power is just as recessary as a good separator. A lack of steady power means poor threshing, poor separation and poor cleaning. You do not want a threshing outfit that

breaks down or has to stop and wait for steam, letting hands stand idle at your expense.

You work hard to plant, grow and har-vest a crop and you do not want it wasted.



outfit with a Nichols-Shepard Steam or Oil-Gas Tractor and

Save Your Thresh Bill The reason is that it is correctly designed and strongly made.

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PEONIES 10 roots for \$3.00. Write for Special Offer. NORTHERN NURSERY CO., Wausau, Wis.

State Capital Comment By Our Lansing Correspondent

(Concluded from last week).

toward a standardization of Michigan farm products to increase the confidence of the consuming public in Michigan farm products and stimulate the demand for these arti- but no official announcement has been cles on the markets. In an effort to made as yet regarding his final derestore once more Michigan cheese in popular favor and regain the standing which it has lost, a law was passed to standards for Michigan cheese and to require honest labeling of the product. At the request of the growers a measure was enacted which establishes three standard grades for all grapes sold in closed packages in Michigan, the grower to label and pack his product according to the specifications laid down in the law, and the apple standards law passed in 1921 was amended to comply with practical conditions met with by the growers.

Senator Bernie L. Case's bill to prevent unjust discrimination in the purchase of potatoes, grain and beans received the approval of both branches of the legislature, but to date has not received the signature of the governor and there seems to be considerable doubt in the minds of those who ought to know, whether he will ever sign it or not. It is hinted that by vetoing the bill he will rebuke Senator Case for standing so strongly for the gasoline tax and opposing the weight tax.

Another marketing measure which was passed and has already been signed by the governor allows counties, after a favorable referendum vote, to acquire and maintain through their supervisors county markets for direct producer-to-consumer marketing.

Dairymen Get Laws.

In a legislative session when many important bills were lost in the jam, the organized dairy interests of the state were, successful in securing the passage of all the legislation which they sponsored. Perhaps this is explained by the fact that they concentrated on three bills and saw them through until the finish.

The "filled milk" bill, which probably attracted the widest publicity, prohibits the manufacture and sale of filled milk in Michigan' and supplements the national Voight bill on this subject.

Another bill of especial interest to the dairymen provides for state licens- complished. The governor vetoed the ing of all manufacturers of ice cream Thomas bill which proposed important and gives the state commissioner of agriculture authority to suspend such law. The governor's objections statlicenses if the manufacturers do not live up to the provisions of the law and referred chiefly to the constituand the rules and regulations which he tionality of some of the provisions of establishes.

The third dairy bill sets up definite standards for fat and moisture content of Michigan cheese and requires hon- laws which had accumulated in Michest labeling of the product. The operation of all of these laws should result in the use of more genuine dairy products and a stimulation of the public demand for Michigan-grown cheese, throughout the state. ice cream and milk products.

To Curb Foul Seeds.

farmers from those who have been Michigan farm lands. This measur dumping impure and ill-adapted seed was sponsored by the development buon Michigan markets, an agricultural reau of the State Department of Agseed law was enacted which provides riculture. for labeling all agricultural seeds to show purity, germination and source or origin and to give the state com- ual interest in legislative proceedings missioner of agriculture authority to during the past session. If the reports seize and hold any agricultural seed and comments in the columns of this being sold contrary to the provisions paper have helped to promote an acof the bill. The lack of such seizure curate understanding of agricultural power has been the great hindrance and general legislation and an interest to controlling the sale of foul seed in in what was going on under the dome. Michigan in the past.

Farm-to-farm movement of agricul- been in vain.

OMMENDABLE steps were taken tural seeds and traffic by local elevators in locally grown seed is exempted from the provisions of the bill. There has been some talk around the Capitol that the governor would veto this bill, cision.

Another measure was passed which has for its object a reduction in the establish fat and moisture content cost of implements used on the farms, This effort took the form of a resolution, urging congress and the Inter State Commerce Commission to take immediate steps to abolish the practice of selling all rolled steel on the Pittsburgh plus basis under which the price is the price at Pittsburgh plus the freight from Pittsburgh to point of delivery, although the steel may be made at Gary or South Chicago.

Stockmen Get Laws.

Probably the most important legislative issue confronting the live stock industry in Michigan was relative to the five-year campaign for the eradication of bovine tuberculosis within the state. A bill was passed to allow for county cooperation in carrying on the campaigns and to reduce the maximum state rewards on condemned cattle to \$30 for a grade and \$60 for a pure-bred. Two hundred and fifty thousand dollars a year was appropriated to pay such state rewards. This amount is not enough to allow for carrying on the campaigns in all of the counties that have requested- this work, but there is some probability that the state administrative board will advance additional funds from the state treasury. The regular appropri-ation for the State Department of Agriculture contains sufficient amounts to allow for the supervision of the bovine tuberculosis eradication work. Under the terms of another bill feeder sheep were exempted from the provisions of the law requiring dipping for all sheep brought into the state.

A measure was enacted to promote the health of Michigan bees by establishing quarantine regulations and rules governing the traffic in queen The bill contains a provision bees. requiring the labeling of all honey, to protect Michigan honey against inferior honey shipped in from other states.

Little Highway Legislation.

While state rewards on county roads were suspended for a two-year period, that was about all that was acamendments to the Covert highway ed in his veto message were technical the bill.

Drain Laws Simplified.

The complicated system of drain igan during the last twenty-six years was entirely repealed by the legislature and one unified drain law passed to apply to all drainage projects

An optional land certification bill was passed in an effort to restore the In an effort to protect Michigan confidence of the buying public in

From the Above we Conclude:

Farmers have shown more than usat Lansing, we feel that they have not

A Farmer's Kalamazoo ENSILAGE CUTTERS

The Kalamazoo Ensilage Cutter is Thousands of enthusiastic users ac-claim its superiority. Compare the Kala-mazoo before you buy. It gives you more for your money, does the work in less time, with less power, less trouble and makes better ensilage.

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RY a Michigan Farmer Classified Liner. They bring results.

will send

you a machin



STABLING COWS IN SUMMER.

my cows at night during the summer. I think it pays.

For years I have felt the need of fertilizer for the farmer to use.

By stabling my cows at night dur- man. ing the summer I have been able to more than double my manurial output. FOUR NEW MICHIGAN HOLSTEIN Last season the manure made from the cows' stable during the summer covered over seven acres of land with a top-dressing previous to sowing the wheat. Had I allowed my cows to go class for production in one year, is back to pasture at night I would have Fayne Aaggie Hengerveld Pontiac. lost most of this manure.

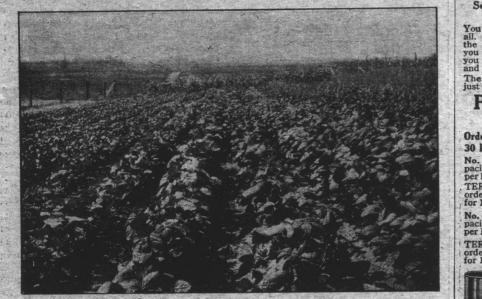
Stabling the cows increases the labor somewhat, but I am very sure that the manure pays for the labor several times over. I use all the bedding in

world-wide organization will be held at Washington, D. C., on October 2-3. FOR the past ten years I have been. The following day at Philadelphia, following the practice of stabling demonstrations of methods for the promotion of health by educating the public to the food value of milk will be given. The fact that the exports of producing more stable manure to build dairy products from the United States up my soil. While I use a consider- almost balance our imports makes able commercial fertilizer with my this world dairy congress association crops, I can not get away from the a most opportune meeting, the feaidea that stable manure is the best tures of which should be of real significance to every progressive dairy-

CHAMPIONS.

'HE new Michigan Holstein champion in the junior four-year-old Her record is 289.44 pounds of milk and 907.88 pounds of fat, or 1,134.85 pounds of butter. She is owned by W. W. Mountain, of Flint.

In ten months division and junior



This is How they Grow Soy-beans in Ogemaw County, where Pioneer Work with this Crop Has Been Carried on by Edward Evans.

the stable possible as an absorbent. rour-year-old class, My stable is cement so I am able to Clare, owned by W. C. Cornwell, of conserve the liquid manure. I use a Saginaw, takes first place with a proliquid-tight litter carrier so that all the duction of 19,328.6 pounds of milk and manure from the stable is carried out 627.90 pounds of fat, or 784.87 pounds some distance from the barn. When of butter. cleaning the stable I clean out the Leo C. Reynolds.

1.12

DAIRY PRODUCTS GROW POPU-LAR.

ucts in this country, the statistical sitmilk amounted to twenty-two gallons. In 1920 the consumption had practically doubled, it then being forty-three gallons per capita. Then in a single year, from 1920 to 1921, the consumption per person increased to forty-nine gallons, or fourteen per cent. If this er seven years.

WORLD-WIDE DAIRYING.

T is noteworthy that business dairy. An additional 400,000 pounds of spe-ing will receive as much attention cial sweet clean butter needed to comternational Dairy Exposition to be coming year has just been contracted held at Syracuse, New York, October for at a price 6.8 cents above the 5-10. The opening sessions of this 92-score New York price.

Silver Belmer

Segis Cornucopia Pauline, owned by liquid along with the other manure W. C. Cornwell, Saginaw, Michigan, and dump on the pile. This gives the is a third new state champion. At straw a chance to absorb the liquid full age in the ten-months division she and improves its fertilizing value.- produced 22,832.8 pounds of milk and 766.71 pounds of fat, equal to 958.38 pounds of butter.

Canary Maid Promethous Champion is declared highest producer in Michigan as a senior three-year-old in both NOTWITHSTANDING the increase the seven-day and thirty-day division. She is owned by the State Hospital at Newberry. In seven days she prouation appears to be in better condi. duced 674.5 pounds of milk and 27.896 tion from a producers' standpoint than pounds of fat, or 34.87 pounds of buta quarter of a century ago. In 1890 ter. Her thirty-day record is 2,639.1 the annual per capita consumption of pounds of milk and 106.796 pounds of fat, or 313,495 pounds of butter.

MICHIGAN AYRSHIRE BECOMES CHAMPION.

BLUEBELL 3rd 73354 is the new senior two-year-old champion of increase should continue, the use of Michigan. This good Ayrshire heifer dairy products would double in anoth- completed her advanced registry record with 10361 pounds of milk, 399.45 pounds of butter-fat. She is owned by Shuttleworth Bros., Ypsilanti, Mich.

as scientific dairying at the great In- plete the navy requirements for the





The difference that makes Champion a better spark plug is the wonderful new core-identified by the Double-Rib.

Champion scientists developed this wonderful core through years of effort and experiment. It will stand stress more severe than ever encountered in actual service. It never loses its insulating properties.

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Champion Spark Plug Company Toledo, lOhio

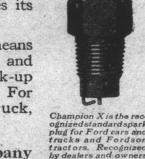
Champion Spark Plug Co. of Can., Ltd., Windsor, Ont.

Most for cost

ills

insects

Dependable for Every Engine



Champion X is the rec-ognized standardspark plug for Ford cars and trucks and Fordson tractors. Recognized by dealers and owners for 10 years as the most economical and effi-cient spark plug. Sold by dealers everywhere.

MPION

Give Name and Address When Sending Inquiries -Service Cannot be Given to Unrighed Letters

RIGHTS OF ENDORSER.

A. lends money to B. on note. C. signs it and pays it when "due. Can C. have B. locked up and take his wages? If so, what steps must C. take? B. owns a car. Can C. take it? Beader wages? take? Reader.

C. cannot have B. locked up, and judgment for reimbursement could not be collected out of exempt wages, but thirty per cent) you will have more he could reach other wages by garnishment. B.'s car would also be liable to execution. C.'s remedy is by suit against B. He cannot take the car without execution .-- Rood.

GROCERY ORDER.

A salesman, taking orders for groc-eries, practically forged an order on us. When my husband and I talked us. When my husband and I talked the matter over we decided to cancel the order. So we wrote right in to the company and also to the salesman, to cancel the ordér. We do not want the order under any consideration. In-closed is a letter from the company. --Mrs. C. D.

The contract is binding and, if the goods are not taken and paid for, the buyers are liable in damages .-- Rood.

TENANT AT WILL.

Forty-five years ago Mr. A. bought a building of the school board and, not having a suitable place to put it, the city officials gave him permission to set it on ground that had been plotted for a street, but had never been used as such, as the high school campus is back of same and fenced. Some, wish-ing to show their authority, want to compel Mr. G. to give up possession. Has Mr. G. any hold on this ground by right of possession?—T. H. A. appears to be merely a tenant at

A. appears to be merely a tenant at will in the street and can be put out upon the three months notice provided for by statute to oust tenants at will.-Rood.

BEAN PODS VS. CORN FODDER.

I have a large quantity of bean pods which I intend to feed to my cows. I would like to know their food value as compared to corn fodder. At what test should I keep my cream to re-ceive the best results during winter? -J. P.

Bean pods or bean straw; that is, the bean plant after seed is threshed out, is considered much superior to cornstalks as food for dairy cows. The bean plant is a legume, and contains a larger percentage of protein than the corn plant, and as home-grown plants and grains do not contain sufficient protein to make a balanced ration for cows giving milk, clover hay, bean straw or pods are considered more valuable than carbonaceous plants like.corn. The fact is, one supplements the other. Both are needed, but the one containing the greater percentage of protein would be, other things being equal, the more valuable. But the other things are not always equal. Bean pods are liable to be hay; but ordinarily they are not worth expense. one-half as much. However, the same worthless.

on test, practically the only gain in top-dress at once. If you have permahaving a high test is the saving of nent pasture, for instance, you need skim-milk. For butter-making purpos- not hesitate about applying as a topes cream ought to test thirty per cent dressing. The weeds will not grow or better of butter-fat. If you have a there to any extent and the mulch will thin cream, say twenty per cent, it benefit the pasture very much.

does not allow the use of sufficient "starter" to guarantee the best control of the product.

MAY. 26, 1923.

If sweet cream is sold for table use, it gives best satisfaction when it contains about eighteen or twenty per cent fat.

It is evident if you set your separator to skim a heavy cream (over skim-milk than if you skim' a thin cream (twenty per-cent); but in either case you should have the same number of pounds of fat and would receive the same amount of money for your entire product. But in the case of twenty per cent cream you would be giving away some skim-milk.

REQUIREMENTS FOR SELLING.

What laws would one have to comply with in order to put up and sell veterinary medicine; such as blood powders, ointments and liniments?— A. W. H.

No one can prescribe for a given case other than a registered veterinary or pharmacist but we find no requirement for the issuance of a license to sell proprietary medicines at wholesale.-Rood.

DESCENT.

What share has a half-sister in a half-brother's estate? The half-brother, a bachelor, has three own brothers. In order to have an assessment changed on the assessment rolls, is it necessary to have the deeds recorded?—Reader.

The parents, if living, inherit. But half blood takes the same share as whole blood, except that if the property descended to the deceased only those of the blood of the ancestor can take. The supervisor will change the assessment on request.-Rood.

LINE TREES.

When limbs or fruit trees extend over fence and fruit drops on my land, is the fruit mine? Whom do the limbs belong to, and can I saw the limbs perpendicular with the fence.—Reader.

The fruit belongs to the person on whose land the trunk stands. The party over whose land the limbs hang may cut them off after notice to the owner to remove them.

CLOVER SEED WASTE USED AS MANURE.

I have a chance, at an elevator, to get a quantity of waste from the clean-ing of clover seed. I suppose several kinds of weed seeds and light seeds of kinds of weed seeds and light seeds of clover, to use as a fertilizer on my farm. Do you think it would be safe to use such stuff after it has laid in a pile out of doors for a couple of years, and is heated and rotted some: Do you think there still would be dan-ger of the weed seeds germinating and growing?—P. I.

It is doubtful if composting would destroy the germination of weed seeds in this waste. It would have to be worth very little as food from the fact very thoroughly done. However, that that the beans were very ripe when should not prevent you from using it harvested and from the fact that many in the manner you speak of if-you of them are practically ruined in cur- think it will pay for the labor involved ing. If the beans are harvested as in hauling and composting. You will early as possible and the weather is always have weeds, and a few more favorable for curing, bean pods may could be destroyed by cultivation at be a very good substitute for clover the same time with little or no extra

If you have special crops that you criticism can be applied to cornstalks. want to use the manure on, possibly Some are good feed, others are almost 'it will pay to expend all this labor. But for ordinary farm crops, it would As cream is almost invariably sold be practically as well to haul it and





RASPBERRY culture has frequently suffered severe setbacks. The causes of these failures have not been fully understood until recently. The trouble is due to any one of three A diseases which are carried over into per cent increase in the Michigan new plantings through the use of dis- cherry crop has led the Michigan Caneased planting stock. These diseases ning Association to consider advertisare known as mosaic or yellows, leaf ing in order to stimulate a greater curl, and rosette. Every part of the consumption of the Michigan canned diseased plant is affected, even the product. The carry-over of the cherry roots and suckers. The diseases great- canned goods was the first ever rely reduce the yield and quality of the ported. In other years, the supply fruit.

It is believed that the only satisfactory way in which to control all three asparagus canning business. Heretoof these diseases is to plant selected fore, practically all the canned aspardisease-free stock. Steps are being agus came from California, but the taken to provide for the inspection of Illinois canners have put up this prodraspberry planting stock during the uct with success and it is believed coming summer in an effort to secure that the Michigan product will put up an adequate supply of disease-free as easily and will have a better qualstock for replacing diseased plantings. ity. The Paw Paw Preserving Com-

AN IMPROVED MORELLO CHERRY. of asparagus this year.

HE Chase sour cherry, believed to roe county, New York, has proved so America's boys' and girls' clubs last satisfactory on the grounds of the Ex- year. periment Station at Geneva, that the station fruit specialists are recommending that it be planted in place of English Morello, the standard late sour cherry for North America. The Chase is described as being of the same type of cherry as the Morello but with fewer faults.

"The trees of the Chase are larger, healthier, more spreading, and the branches do not droop as do those of Morello," says the station horticulturist. "The leaves are larger and the fruit better distributed. The cherries are larger, possess the same dark color and shape of the Morello, except with a deeper cavity; and ripen a little earlier, but are much milder in flavor and therefore pleasanter to eat out of hand than the sour, astringen Morello. The Chase is an improved



The state of New York has realized for some time the necessity of re-planting—her forests. Over twenty years ago gangs of planters, equipped as this man is, went over the slopes of the Adirondacks every spring set-ting out trees from six to ten feet apart. Those young plantings are now dense young forests extending as far as the eye can see. Would not this be a good plan for Michigan to follow on some of her deforested non-agricul-tural lands? The state of New York has realized

of that well-known variety.

CANNERS TO ADVERTISE.

TWO per cent carry-over of last year's cherry pack and a fifteen could not clear the demand.

Michigan canners will also enter the pany will can about twenty-five acres-

A half million youngsters raised have originated near Riga, Mon- seven million dollars worth of stuff in



ES Around the World with ONE OILING **100,000** Miles Without Stopping for Oil

An inventor who could develop an automobile, a railroad car or any other conveyance on wheels which would perform such a feat would be considered a wonder. But such is the record of regular accomplishment by the Auto-oiled Aermotor during the past eight years in pumping water. Did you ever stop to think how many revolutions the wheel of a windmill makes? If the wheel of an Aermotor should roll along the surface of the ground at the same speed that it makes when pumping water it would travel on an average 275 miles per day or about 30 miles per hour for 9 hours each oiling at least once a week. Isn't it marvelous, then, that a windmill has been made which will go 50 times as long as the best automobile with one oiling? The **Auto-oiled Aermotor** after 8 full years of service in every is has proven its ability to run and give the most reliable service

part of the world has proven its ability to run and give the most reliable service with one oiling a year. The double gears, and all moving parts, are entirely enclosed and flooded with oil all the time. It gives more service with less attention than any other piece of machinery on the farm. To get everlasting wind-mill satisfaction buy the Auto-oiled Aermotor, the most efficient windmill that has ever been made.

For full infor-mation write AERMOTOR CO. Chicago Minneapolis Oakland) Puts a Hercules to Work My new reduced 1923 prices and easy terms place a Her-DOWN cules stump puller within reach at lower cost than ever. Hercules is the easiest-operating stump puller ever made. Four machines in one. Moves like a wheelbarrow. No heavy lifting or straining. Handles any stump. One man pulls big stumps easy. Hand or horse power machines. Write for Free Catalog. Send name and address today for full details. HERCULES MANUFACTURING CO., 34929th St., Centerville, lows Easy Payments O Days' Trial 3-Year Guarantee





LEGAL ADVICE You state the facts and we give our Legal opinion for One Dollar. LEGAL ADVICE CO. 319 Erie Bidg. Cleveland, O.

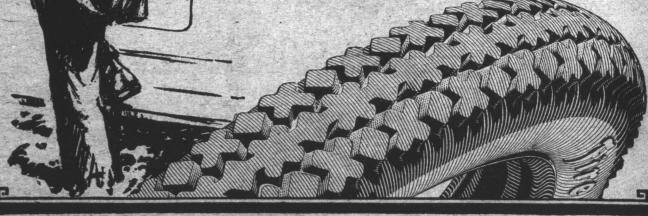


Fortifying Faith In their partiality for Firestone Gum-Dipped

Cords, the majority of farmers in America are influenced by the knowledge that this name has meant Most Miles per Dollar for over twenty years. They have the facts to justify their confidence in these tires.

For uncertain weather and for all conditions of roads, the farmer wants a safe, sure hold. This he has in the powerful gripping angles of the Firestone tread; it presents the right angle of resistance against swerve. And the toughness of the rubber makes this tread slower to wear-retaining its non-skid effectiveness for thousands of miles.

In the past sixmonths the demand for Firestone Gum-Dipped Cords has increased 194% over the same period one year ago-proof that the public has found genuine economy and satisfaction in these reliable tires.





714-8

About \$2,000,000 Losses to Michigan Farmers To Cover Fire, Theft and Liability on Automobiles

With the large number of heavy trucks and automobile busses running on the highways your car may be run into and shoved off the highway into the ditch, making a complete wreck. The driver of the other car may be worthless and you will need automobile insurance to take care of your loss. On the other hand, in case of a collision in which the automobile is damaged and people injured, there is the usual argument as to who is at fault.

MR. FARMER, if you have invested from \$500 to \$3,000 in an automobile, can you afford to take the risk with the increasing danger upon all highways and city streets of the state? Why not insure in the pioneer mutual that is now starting its ninth season of success and therefore is organized to give you service and to protect your rights? Every regular policy carries liability to \$5,000 and fire and theft not exceeding \$1,000. Collision and additional fire and theft can be had at reasonable rates.

On May 1st the total cash assets of the company were \$225,412.20 which, with office building and other assets amounting to \$49,690.49, makes total assets of \$275,102.69.

Remember that on a Dodge car the cost is only \$10.50 for fire and theft to the value of the car, and \$5,000 liability. Insure today, tomorrow may be too late.



The Handy Man's Corner

How They Save Minutes

responded to our requests for infor- one of these may be put in the hole mation through this department. The and riveted down, stopping it comresponse has been most generous and pletely. Or a plug of lead can easily beyond my expectation. The interest be whittled out with a jack knife and being taken in the replies makes it hammered in. An irregular shaped seem desirable to keep the good work hole may be fitted with a lead plug up during the summer months. What in this way and stopped. do you say? One good farmer tells me that the little diversion occasioned a washer on one or both sides is needby thinking on the subjects suggested, ed. If washers are not at hand they and the writing of the letters, has may be cut out of sheet iron and a helped him to enjoy his farm work much more than usual, even though he is working with far less help than ever before.

Anyway, we are going to keep the work going, Suggestions will be appreciated .- The Handy Man.

DRIVES AROUND FIELD IN DRILL-ING.

ONE way of saving minutes is to drill a field by driving around the field instead of going back and forth across it. I find the work can be done much quicker that way. The drill discs will not have to be raised, and by keeping one of the horses following the wheel track the work can be done very satisfactorily. When finishing make a round from the center of the field to each corner to fill in the spaces at the turn.-R. M. Carroll, Big Rapids, Mich.

FINDS MINUTES IN REPAIR SHOP.

A GOOD method of saving minutes is to have a well-equipped repair shop on the farm. When 'something breaks it can be repaired during the noon hour or in the evening. This frequently saves many a trip to town.

post-drill, anvil and forge, soldering large crack that a tinner had failed to outfit, shoe repair kit, a good supply of stop with solder in a copper boiler botbolts of all descriptions, an assort- tom was closed by two large washers ment of rivets, some wrenches and cut out of sheet iron, and under one pliers .- John Bos, Marion, Mich.

MAKE YOUR HEAD HELP.

farm work if we will only use Fennville, Mich. our head. When we go to the city or village we jot down the things we shall likely need during the next week or two, and then purchase the entire Likewise, when going to the list. field in the morning we always have a wrench, a few nails and some wire, so that in case something does go wrong the chances are we can fix it without a trip to the house. Then, too, I think the farmer should go about his work in a way to overcome that tired and nervous feeling. Work straight ahead and keep constantly thinking of the most efficient method of accomplishing the task you are at .--- W. Dykhuis, Holland, Mich.

MENDS VESSELS QUICKLY.

THERE are numerous savings, both may be effected by a little ingenuity on the part of the handy man-or woman-about the house. Kitchen, PDST utensils, both of tin and enamelware, frequently have holes come in them.

How many of us can remember the days of our grandmothers, before germs were discovered, and the importance of sanitation so emphasized. when a piece of rag was drawn into the hole in the tin milk pan. There is a better way and more sanitary, and without the trouble of taking these

I WISH to take this opportunity to articles to the tinner. If one will pro-thank all the many farmers who cure an assortment of tinners' rivets

Sometimes in using tinners' rivets

Haying Hints

D ID you realize, brother farmers, that haying time is almost here, and that we have got to do the work this year under the heaviest labor handicap that farmers have ever experienced?

That we might be of the greatest help to each other, I am asking that you write and tell me of some short cut in having which has helped you to save time or help in doing this annual job.

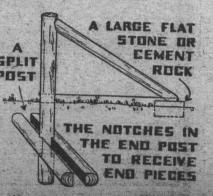
Merely write out a brief description of your short-cut on a letter or postcard and mail to me, The Handy Man, Michigan Farmer, Detroit. To the writer of each of the five best letters I will send a bran new pair of those combination pliers.

Letters are coming to my desk from those who have received this handy tool, telling of its usefulness and good quality. Your having hint should be mailed on or before May 30.

The shop should contain a vise, hole punched in to fit the rivet. A of these was placed a third made from lead hammered down to a little more than the thickness of the sheet iron. A rivet brought these down firmly and WE all can save minutes in our completely stopped the hole.-E. H.

SAVES MINUTES BY LOOKING AHEAD.

HERE is how I save time upon the farm: Have all my harnesses and implements ready when it is time to go to work. Draw stable manure direct to fields in winter. Kill bulk of weeds before planting, with a threesection drag instead of doing it after planting with a one-horse cultivator. Draw surplus grain to elevator for storage in early spring and sell by telephone when the market seems right. Do all the spring's work possible in the fall by fall-plowing .- F. R., Shepard, Mich.



How to Anchor an End Post.

Tractor Chart of Recommendations

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PERFECT

S. H. E. H

S. H.

E.H. E.H.

E.H. S.H.

E.H

E. H.

E. H.

S. H. S. H.

H.

H.

S. H. E. H.

S. H.

E. H

E. H.

Motor Oll Motor Oil Trade Name 0-12, H. 15-25, S. H. 18-30 ick-Deering, H. Corm 15-30. nneapolis, 12-25 and 17-30......S. H. nneapolis, 22-44 and 35-70.....E. H. Kinkade E.H. S.H. n-Taylor, MinS. H. 5-30. Itman-Taylor, 22-45 and 30-60. S. H. S. H. logul. Ioline Universal... Model C. H. 8-16, 12-20, 14-28, 18-36, 40-65, 20-35, E. H. - Runner, S. H. Junior and Oil Gas, 20-42 and 25-50 Track Runner. Steel Mule, All Peoria. S. H. 18-36 and Tracklayer, All Port Huron..... Quadpull...... Reed. H our E-B..... ye Trundaar.. All Models . E. 10-18, 10-20, 15-27, 9-18. H. 2-40 S. ey, Oil Pull, 12-16-30 and 20-H 12-25, 30-60 All Models t Blue "J" Model M. All Models 6-12 and All Models. Turn har, 15-25. 出 r Drive S. H. 20-35 H Ports.... City, 12-20 and H. H. n City, 40-65 and Waterloo Boy..... Wellington, 12-22 and 16-30-Parr, Models.....E. H. Wetme. lore. . . . Caterpillar, All E. H. All Models...S. H. Yuba Ball Tread....S. H. KEY arine Light. larine Med nal, 8-16. All Models

Polarine Medium. Polarine Heavy. — Polarine Special eavy. H.—Polarine Extra eavy.

N. B. For recommendation in automobile and trucks of Oll Co. (Indiana) Station. is of grades of Polarine to use onsult chart at any Standard

ANY farmers do not realize the tremendous waste due to wrong lubrication. They no not charge against the motor oil such matters as scored cylinders — overheating — too much carbon — too much exhaust smoke—too high consumption of gas.

Sharp Economy

ne Means

Yet the right grade of Polarine—indicated in the chart frequently corrects all these troubles. Polarine means economy in operation, as well as added flexibility and power.

The reason why Polarine is good, begins with fundamentals. Polarine is made from selected crudes—high in lubricating value. Polarine is manufactured in modern refineries. It is made according to the findings of the world's leading petroleum chemists in co-operation with the designers of the very tractors for which the oil is intended.



It is tested, scientifically, in hundreds of tests — in all kinds of engines — un-, der all field conditions.

MOTOR OIL

Polarine is dependable at all motor speeds-at all temperatures-because it holds together. It maintains its body, does not disintegrate under pressure, will correctly lubricate your tractor

Standard Oil Company,

(Indiana)

at all times, provided the grade indicated in the Chart is used.

Polarine is elastic. It forms a perfect cushion, an unbroken film between the moving metal parts. Yet it offers minimum resistance to motion and maxi-mum flexibility. Change your motor oil very frequently and use Polarine.



910 So. Michigan Ave. Chicago, Illinois 3152



How Do You Select and **Buy Your MOTOR OII**

Are you as careful in the selection of your lubricating oil as you were in the selection of the tractor, truck or gas engine which you bought? No power plant can be any better than the oil which is used in it. For lubrication is the life of any motor. When you use En-ar-co Motor Oil, you are getting the very highest quality oil-an oil that is produced by Scientific Refining - tested hourly by our laboratories during the process of its manufacture; an oil which when used regularly will decrease repair bills, give longer life to your-motor and helpdevelop more power.



is recommended by every prominent automobile, tractor, truck and gas engine manufacturer, which guarantees to its users absolute uniformity and quality, giving perfect lub-rication to any power plant under any condition of work. Buy En-ar-co Motor Oil in quantity - buy it by the steel drum. Be sure you always have it on hand to change in your motor at frequent intervals. To jump from En-ar-co, a known oil, to an unknown oil is to invite trouble. Besides, purchasing in quantity is much more economical.

Act Now! Order a drum of En-ar-co Motor Oil today. If your dealer can't supply you, write direct to us. Use the coupon below and get

FREE EN-AR-CO AUTO GAME A great game for the children and grown-ups too. Interest-

ing, fascinating, exciting. Nothing like it.

En-ar-co Gear Compound for gears, differentials and transmissions. White Rose Gasoline, clean, uniform, powerful. National Light Kerosene for tractor fuel, also for lamps, stoves and incubators.

THE NATIONAL REFINING COMPANY Scientific Refining-In Business 40 Years

Producers of Crude Oil, Refiners and Marketers—Four Modern Refineries —Complete Distributing Branches in 97 Cities, One of Which is Near You. National Headquarters, National Bld'g, Cleve

EN-AR-CO-Auto Game FREE!

THE NATIONAL REFINING CO, 704 D-5 National Building, CLEVELAND, OHIO Send En-ar-co Anto Game FREE, I have never received an En-ar-co Game. (Write your nam address plainly—preferably printed.) My name is .St. or R. F. D. No .. Postoffic County State.

I own a My Oil Dealer. (Auto or Tractor) located at. located at......cannot supply me. Quote prices on, or ship at once ... lbs. Black Beauty Axle G

Francisco Farm Notes By P. P. Pope

Rainy Days.

T rains this morning. Not heavily, to beat the ground into puddles, but gently and quietly. The air is saturated with moisture and the grass laden with dewdrops. The condition is ideal for the germination and rapid growth of the remaining grains of oats and barley and tiny clover seeds that may not to date have been subjected to sufficient moisture to start the new life into action. The big blanket of snow which all Michigan shivered under during early corn planting time, not made, it is grown, it is a product left a generous supply of moisture to of the soil, a child of sunshine and soak into the soil where it was gener-/ rain, born of old Mother Earth and ally needed, but it was cold. This tenderly cared for by the farmer, just morning it is warm and will do much as corn and wheat and rye and oats good, so we are glad to see it rain. are.



This Map Shows the Sections of the United States and Canada Under Quarantine on Account of the Pres-ence of European Corn Borer. There is always some useful work to be done under shelter on farms like ours, so the time is not lost.

Guarding Again Navel III.-

We are expecting the arrival of a couple of new little colts in a short time. This is no uncommon thing with us, but among the dozens of them that have arrived in recent years, we have twice made the mistake of having the foaling on dirt floors with resultant losses

Dirt floors are satisfactory for many purposes but they are not good for baby colts to lie on. The soil around barnyards and stables is full of the deadly germs of tetanus and joint ill. These germs gain ready entrance to the circulation through flesh wounds of horses or the unhealed navels of new-born colts.

To guard against such infection we shall arrange to have the colts foaled on clean board floors heavily bedded with straw, or on clean pastures away from the buildings, and as a farther precaution, secure from our veterinarian a preparation that we can apply to the navel as a disinfectant and an aid to healing. We consider this a measure of prevention, which in the case of new-born colts is the only satisfactory treatment, and in the absence of which thousands of them are doomed to a brief existence.

Keeping on Accredited List.

The day is fast passing when breeding cattle can be satisfactorily sold sugar. Yours, C. H. Allen. without a certificate of health. The 'tubercle test" - and the "accredited list" will soon be common talk whenever sales or purchases are considered. It is a serious thing for a man to spend a goodly portion of his active cattle and then find that many of them are tubercular. Not only is it a heavy blow to him financially, but he may have been the means of spreading this insidious disease to numerous herds sultant losses to the inncoent buyer, to say nothing of the dangers to which families of his customers have been subjected.

a reactor, and it has been a source of -Ora T. Hopkins, Oakland County.

much satisfaction and security to have it on the accredited list. The annual test is again due. We expect the vet-erinarian this week and anxiously await the verdict.

SHOULD GROW MORE SUGAR.

VOUR letter of the twenty-eighth at hand. I am very glad to hear that someone is favorable to the further development of American-grown sugar-Sugar is a crop of the farmer, it is

It should be considered by the people and by the legislature as a farm crop, not as a manufactured article.

We consumed last year 5,700,000 tons of sugar; we grew 615,000 tons in beets; we grew about 250,000 tons in cane; the remainder of it we bought. When the great bulk of our American-grown sugar had been sold and eaten, which was by February 1, 1923, and we were compelled to go to foreigners for our supply for the remainder of the year, the price began to soar. Our farmers received no benefit. Our sugar "threshing machine" men received no benefit. We will get no relief until American sugar again comes on the market in the fall. We are in the hands of foreigners for our sugar just as we are in the hands of foreigners for our supply of rubber.

We do not have to be in their power. Injunctions against sugar exchanges in this country will not get us out. Traders can immediately start up again in Havana or London. Why should we be dependent upon foreigners for something we can grow ourselves? Would we buy vegetables if we had them in our own back yard? Could they hold us up on prices if we grew enough of the vegetables to supply ourselves? Is it not about time we in this country should grow American sugar on American farms for Americans?

Michigan and Ohio need annually one billion pounds of sugar. These two states grow 240,000,000 pounds. Should we not, as farmers and agriculturists, use every means to grow what we eat, eat what we grow?

I am asking you as an American, a farmer, a citizen of Michigan, to get facts and figures and the truth and go with us in the attempt to make American markets safe for American farmers.

Senator Capper was right when he said, "the only way for the United States to prevent sugar famines and resulting high prices was to cultivate sugar production in this country."

That is why he voted for a tariff on

USES WEEDER TO BUNCH BEANS.

FOR harvesting beans I would rather have a one-horse weeder than a life building up a herd of high-class dozen men. This implement will move the beans along without shattering the pods.

I pull four double rows and then give the team a rest while I make one round trip with the weeder. I move in which he has sold cattle, with re- along the rows with the weeder until a small forkful has been gathered, then the weeder is raised up when the the members of his household and the teeth catch the bunches just enough to turn them over and leave the roots sticking upward. The beans can be Our little herd so far has never had left in rows the same as in raking hay.



Copyright by Underwood & Underwood, New York

the shirt of the



almost upon them did they attempt to escape, fleeing then chaotically in all directions. But the horses also spread mentum stronger than their fear, they stampeded across the paths of the fleeing pack. Most of the scavengers escaped but one was struck down. At to the dismay of the herd. They watched her curiously as she trotted, some distance ahead of them, up the incline.

718-12

She came to the miserable creature whose back had been broken. Unable to move his hind legs, he dragged them along behind as he crept away with his forelegs. But Queen did not let him get away. The herd had by this time timorously come after her. Stepping back a moment before the flashing teeth and the gleaming eyes she rushed at him again and struck him upon the head with a sharp, front hoof. She struck him again and again as if moved by the terror of the thing she was doing. The herd had come up toward her but when they saw her attacking the coyote they got frightened and ran away. Queen then abandoned the lifeless form and ran to join them.

Far away on the moonlit sky line sat the rest of the coyote pack, their nozzles turning periodically to the moon and baying madly against the betrayal of their god. Never in all their savage experience had they come upon such a herd of horses and never again would they expose themselves to its madness.

Without vote or discussion, without struggle or rivalry, Queen assumed her regency. Her will became the will of the herd. Queen she became in earnest, in the highest sense of the word, ruling neither for gain nor power, ruling solely for love of freedom sorrel workhorse, running as fast as and her companions. And her ruling was the salvation of the herd and the consternation of the homesteaders whose wretched shacks skirted her domains.

THE prairie grass began once more to wither and grow grey. The winds assumed again their autmunal complaint. Again dead thistles began sadness and moaned with an aimless rolling over the plains, expressing somehow in their helpless rolling the her interest, Queen's fear of the scent relentlessness of change. Frosts rewhitened the morning earth and geese honked again on their flight to the apparition was out of sight. There south.

The herd was grazing on a hillslope. The wind was tugging away at her again. This they kept up for the mane and tail, but otherwise she was greater part of the day. Toward eve-

by surprise. Not until the herd was standing on. Her eyes were fixed upon find out just what was wrong. By this two horses, coming from the southeast time she was convinced that there was and more than a mile away.

Once or twice the brown colt, now out to avoid the carcass; and with mo- a full grown stallion, fat and almost erable creatures followed them miticlumsy, raised his head to look as she gated her fear of their being danwas looking; but most of the others were busy seeking better grasses and wild plants they liked, until Queen, the foot of the hill Queen turned back, with a partially suppressed whinny of

no man with them anywhere, and the laborious manner in which these misgerous.

She went round on a curve and stopped some fifty feet from the two weary animals. The sorrel, now about a foot excitement trotted away to meet the behind the white horse, snorting as if

LIFE'S HARVEST.

How do you build my rugged youth At the peak of your strength today With kindly deeds on the ways of truth That count when you're old and And the love that was, has waned and gray?

Or is that strength a mighty whip That sears where the weaker fall And mocks the word of Holy Writ Where the meek inherit all?

A chasm yawns in the path of Youth 'Tis scan'd with a careless glance Do you boldly take the depths forsooth,

As you stalk along with chance?

How fares it now you hoary head As you sink in your chair alone? Are you content with the life you've led The harvest you garner home? But why alone now, hoary head Do you pass the latter days Why is the stranger here instead

scene broke into activity.

But when they had come within a quarter of a mile of the two horses, they stopped. A white horse that made Queen think of Whiteblack, tied to a they could under the circumstances, were coming toward them, by fits and starts. The white horse, as he came on, kept stepping backward and raising his head every once in a while, only to leap forward again a few paces. - Always as he leaped forward something dragged him back by the head. They would run on together for a short distance and then the same thing would happen again.

When they got very near, in spite of of man which clung to them got the better of her and she led away till the the herd waited for its reappearance. When they did appear the herd fled

By Hugh Kephart Of your own, with gentle ways? Mayhap it was a tyrant ruled

In your cheerless home and bare cooled

Now, the far-off fields are fair.

Let us turn away, 'tis sad to see: May the hand of time move on

And bear this truth to you and me, That our futures must be won!

What does the wealth of kings avail, Can it heal the broken dove

Or bring us cheer in the evening vale Like the soothing hand of love? Go wisely build, my manly lad,

And my bright-eyed lass, today That proud you'll be of your life, and

glad; The time when you're old and gray.

newcomers. At once the peaceful he had great difficulty in breathing, took the opportunity during the moment's rest to brace his body with his front legs against the pulling of the white one. The white one, driven by some fear, began pulling and tugging as soon as he had caught his breath; but he couldn't budge the old fellow an inch. Queen advanced fearfully. The scent of man, despite the fact that there was no man about, worried her even as the growing certainty that these were her old companions drew her toward them. Finally she ventured near enough to touch the white nose that came forward a few inches to meet hers. White-black it was! Poor, abused White-black, coverd with barn dirt, his sides fallen in through struggle and lack of sufficient food.

> A touch of the old sorrel's nose brought him to his proper place in her mind and Queen ran from one to the other, feeling vaguely that the spell of the dirty barn was still holding

yet not having the faintest idea of what to do.

HE old sorrel was by far the weaker one of the two. He was evidently just about exhausted. His poor old sides expanded and contracted rapidly and his dirty flanks were literally wet with foamy perspiration. Though White-black took advantage of their halt and grazed as far as the entanglement of straps that held him fast to his mate would allow, the old sorrel made no attempt to eat. His harness had slipped down his side and one of his front legs was caught in a loop in one of the straps that hung from his neck.

The weary old sorrel had hardly rega ned his breath, when Queen spied a man on horseback coming after the pair. The herd dashed away to the north while White-black, dragging the exhausted sorrel behind him, brought up the rear. The old sorrel did the best he could. The lines tying his bridle to White-black's bridle pulled painfully at his lips, the corners of which were red with blood. Strength was ebbing rapidly from him and he moved through space as if he were dazed.

Suddenly one of his front legs went into a badger hole. The old fellow went down with a groan. The groan was immediately followed by several sharp, successive snaps and Whiteblack was free from his poor, wretched, old mate. And the poor old sorrel, too, was free, free from future agony. The hanging straps impeded Whiteblack's flight, but the darkness came to his rescue. The herd had ceased running. The hoof-beats of the man's saddle pony were dying away in the distance. By morning when the man reappeared on the horizon, Whiteblack, still burdened by his heavy harness, was free enough to be able to keep up with the herd, for what was left of the lines, stepped upon so many times during the night, now hung above his knees.

For more than a week, the man persisted in his futile attempt to catch the white horse; then, because his saddle pony was completely exhausted, racing daily with the weight on his back, he gave up the chase with a vicious hope that White-black would strangle himself in the harness he carried with him, and a curse upon the wild western broncos that were "no good anyway.'

But White-black had no inclination to pass out of existence that way, nor did his notion of value coincide with that of his would-be owner. He did both of them in captivity, and trying everything he could think of doing to

AL ACRES-Al Says The Acres Bull is Safe and Sane.



rid himself of his trying encumbrance. While she chewed at the straps, White-He would lie down every once in a black ground his teeth in his persistwhile and roll in the hope of rubbing the harness off. In time, he managed denly it fell from his mouth. to loosen the crupper so that it let the greater part of the harness, the part that covered his back and sides, slip his valuable white horse, got near down on one side of him and drag on enough to the herd to see that Whitethe ground.

This only intensified his discomfort, for every horse that went near him was sure to step on some strap. Every time some one stepped upon a strap, however, there was one strap less dragging after him, and in a few days the whole network of straps was torn from the hames. One day while loosened and fell off and the collar get his bridle off? Tell me that, She's fell down upon his head. A little help with one hoof got it completely off his head, and so he was free from all but the bridle. The bit was tormenting enough but since it did not entirely prevent his grazing and his drinking, and the straps hanging down did not interfere with his running, he was virtually free again.

these straps that clung to White-black To release them was in all probability and lying close to him, she stretched to lose them. her neck and began to chew at them.

THE MICHIGAN FARMER

ent effort to dislodge the bit, and sud-

When next spring the homesteader. in another vain attempt to recapture black did not have on him a piece of all the harness with which he had run away, he could hardly believe his eyes. That hight he told his neighbors:

'That mare's got the devil in her. She just took them there harness right off him. I know it. How else could he get 'em off? When the critters ran away they both had all their harness on. How in thunder did he a devil, that mare. I'll tell y'u she went for me like a witch the day I got her colt. I went away and left her round the barn thinkin' I'd get her with the help of Colter; but I reckoned on her bein' a mare-not a devil! She opened her mouth just like a wolf. I swear it."

Because she was able to defend herself against a man's tyranny, they accused her of having the devil in her; T was during the middle of the win- because she was wise enough to retain I ter that he was relieved of the last her liberty, they cursed and hated her. link in the chain of his captivity. Yet they had ample reason for hating There came a severe blizzard that her. Within two years after the loss kept them lying huddled into each oth of White-black, not a homesteader er with nothing to do for a long time. dared release his horses in the fall as Queen had always been annoyed by they, had been in the habit of doing.

(Continued next week).



A BEAUTIFUL COMPLEXION.

5 for cosmetics in one single state, in one single year. That gives an idea of how much we crave beauty, the beauty that is skin deep. Our hearty country girls are just as eardirection; and their brothers, too, usually oily skin is removed. show more than a passing interest. So it is evident that complexion is a matter of very special importance, and that the disfiguring skin disease known as Acne, blotching the face with pimp-les and blackheads, means great ment-al distress even though it does not al distress, even though it does not a neighbor to drink sulphur. Is there very seriously impair one's physical any harm in it?—Mrs. E. L. powers.

this complaint and are anxious to have nor keep it up too long, but neither is the skin. They will massage the face to cure the trouble. So have a hunto give five to the covered parts. They a sad time trying all of them. Salt face will not respond kindly to treat. to cure but the best results are obment that ignores all the rest of the tained by having the peculiarities of skin.

The very best complexion treatment is a cold or cool bath, once daily, preferably in the morning. This should most applicable. be taken in a warm room and the water should be cool enough to get a brisk reaction, but there is nothing gained by extreme cold temperatures. Even more important than the bath is the brisk rub that should follow. It must be borne in mind that we are should I do for my heart?—H. U. gained by extreme cold temperatures. now prescribing for young people of ward persistent effort.

should be rather abstemious, especial- through the important part of life.

ly as to sweets and fats. All rich, fried, greasy, highly seasoned food C EVEN million dollars is the bill should be shunned. They should eat freely of fruit, green vegetables and coarse breads, and should drink about half a gallon of water each day.

The face should be well washed at night with warm water and soap, and nest as their city sisters in their ef- should have enough attention to be forts to give nature a boost in this sure that all the excess oil of the un-

SALT RHEUM.

It would not be likely to do you Most young people who suffer with harm if you did not drink too much it remedied spend too much time on it at all likely that it would do you the face and too little on the rest of any good. Sulphur has been known for twenty minutes, but do not wish dred other remedies. You would have must remember that the skin of the rheum is a form of eczema. It is hard your particular case carefully studied by a physician who knows by study and experience the remedies that are

LEAKAGE OF HEART.

I have been refused life insuran I thought I

Go to a first-class doctor and ask vigorous habit, who desire a good com- him to examine you, find out your explexion. Such treatment is not safe act condition, and advise you just what for the old and feeble; but for those work you may do and what you should able to bear it the effect is to quicken leave alone. Follow this advice and the circulation and to improve not only you will live as long as if the leak did the skin but every organ in the body. not exist. You will not be able to get Improvement will not come in a single a full-term life policy but if you are in week, but it will surely come to re- good condition, aside from the leak, any good insurance company will sell The diet of young persons with Acne you a limited policy that will see you



No"kick-back" in this mealtime cup

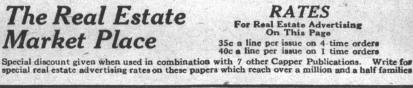
WHEN you find that coffee makes you nervous, keeps you awake at night, or causes frequent headaches, it's time to change to Postum.

This delicious, healthful cereal beverage gives you all the comfort and satisfaction of your usual morning cup. It has charm without harm to nerves or digestioncheer without fear of a dangerous "kickback."

Your grocer sells Postum in two forms : Instant Postum (in tins) prepared instantly in the cup by the addition of boiling water. Postum Cereal (in packages) for those who prefer the flavor brought out by boiling fully 20 minutes. The cost of either is about one-half cent a cup.

Postum FOR HEALTH "There's a Reason"

Made by Postum Cereal Company, Inc., Battle Creek, Michigan



PAY NO ADVANCE FEE; don't give option or tie up real estate for any kind of contract without first know-ing those you are dealing with are absolutely honorable, re-sponsible and reliable.

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Stock Iools, Growing Crops. Located 5 miles from town with advantages, mail de-livered telephone: 60 acres level loamy tillage, spring matered/wire fenced pasture, 37 acres mail de-matered/wire fenced pasture, 37 acres mail de-matered/wire fenced pasture, 37 acres shade. 46 ft. basement barn, painted, hay fork, windmill, tother bligs. For quick sale owner includes 2 horses, 3 cores oats, 6 acres alfalfa, 4 acres wheat, 5 acres fitted for corn. % acre potates, etc., all for \$5500 yith \$500 down. See George Wickwire, 24 Sun Bidg, Jackson or Michigan Farm Agency, 628 Ford Bidg', Detroit.

126-Acre Equipped Farm

Overlooking Beautiful Lake Buildings insured \$4000, products sold at door schools, stores, churches; convenient hustling So Michigan city; 80 acres fields for big crops com-oats, beans, potatoes, what, vegetables; 25-co-spring-watered pasture, estimated 1500 cords wood 50 apple trees, pears, pluma, cherries; good 2-stor 9-room house, 40-ft, barn, poultry house, granary warene To settle-affeire mut \$3400 horse com 9-room house, 40-ft, barn, poultry house, granary, garage. To settle-affairs only \$3400, horse, cow, sheep, brood sow, etc., included if taken now, part cash. For traveling instructions see page 19 flus. Catalog Bargains-many states. Copy free. STROUT FARM AGENCY, 427KH Marquette Bldg., Chicago, 11

FOR SALE 640 ACRES of rolling loam land suitable for farming or grazing, watered by fine spring front stream, located one mile East of Lorancer on M. O. R. and trunk line high-way, and about six miles from City of West Branch, the county seat of Ogemaw County, one of the finest counties in Michigan, at \$12.00 per acre if sold in block, ou terms to enit purchasers. Owner WILLIAM T. YEO, West Branch, Michigan-FOR SALE Southeastern Colorado - irrigated and non-irrigated farms and ranches. Write for free information. Grege Realty Company, Lamar, Colorado.

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Farm Wanted Near school; at spot cash price. Mean business. Fuller, Wichita, Ks.

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Begin Your Canning Program Early Study What's In Your Cellar this Spring for Balanced Variety Next Winter

AST year when the canning seaies at the club, that we had finished method of serving. Blanch in boiling idea of canning the surplus. our canning and the jars were filled to the very last one. And what a sigh of cheesecloth for one or two minutes; relief and feeling of satisfaction it was to know that this portion of the fam- ed. Pack in sterilized jars with good should be picked and canned the same agement Specialist from the Michigan ily larded for the year was provided for so sumptuously.

passed, many of us are in quite a different frame of mind. We are surprised at what is in our cellar this spring. Even though our larded lacked nothing in quantity last fall, we have found that it lacked much in variety. There are jars and jars of huckleberries, but but there was not half enough to add seal at once. When cool, store in a our supply of canned vegetables has the sufficient amount of vitamines to dry, cool place. been limited since January.

Along in February "pie timber" became so scarce that it was huckleberry pie every day in the week, until

Lower Sugar Consumption

SPECULATION in sugar is boosting the price above normål. In opposition, housewives are advised to limit their buying to aid in lowering the price.

You have certain methods, substitutes and recipes by which you are lowering your family's consumption of sugar. Just write a letter or postcard telling me about them. For the letter giving the most practical suggestions and recipes, w- will award an aluminum double boiler. The second prize will be an aluminum serving tray; while the third, fourth and fifth prizes will be aluminum sauce pans.

Address your letters to Martha Cole, Michigan Farmer, Detroit, Mich., before June 7.

finally the family began to feel as if they were first cousins to "Huckleberry Finn." This surplus may be apples or pears, or some other fruit in your individual case. Whichever it is, the appetite of the family has become dulled for that particular variety, because it appeared on menu too frequently. A certain wise man has said, "Variety is the spice of life." There is no place where this rule is more adaptable than in planning the canning budget. By beginning our canning early in the spring, we are taking advantage of the opportunity to increase our variety. Don't you remember all the "yum yums" that arose from around the table last winter when rhubarh nic was served? In fact, it was well liked no matter how it was served.

Housewives have in their hands but one method to control the present high price of sugar. They can beat the speculator at his own game if they will but cease to buy stheir usual amount of sugar. With his plans for the approaching canning season, it will hit the speculator hard if we can our fruit without sugar. The follow- ly. Blanch in boiling water for five or ing is a good recipe for canning rhubarb without sugar.

Select well-grown, firm, and not ov- our daily menus. We have added townships, reaching nine hundred farm water by means of a wire basket or But now that the season has nearly minutes. (A longer period of processbleaching.

son closed, many of us made er-ripe stalks. Wash and cut in three- Swiss chard and spinach to our usual persons. brags to our neighbor or the lad- inch or inch lengths, according to the garden planting this year, with the

> To Can Spinach or Swiss Chard. These two vegetables are canned by and plunge into cold water until chill-, exactly the same method. The leaves rubbers and fill with boiling water. day. Remove all yellow leaves and Process in hot water bath for thirty cleanse remainder thoroughly. Blanch in steam for fifteen minutes and dip ing is necessary when sugar is not in cold water. Pack into sterilized used). Remove jars from sterilizer jars with good rubbers and add one and seal tightly. Store in a dark, cold teaspoonful of salt to each quart, fillplace and wrap in paper to prevent ing with boiled water. Process under ten pounds steam pressure for fifty Those greens were fine last winter, minutes. Remove from the canner and

Sessions for the women were held every afternoon and in some places also in the evening; however, every evening movies were shown. Miss Marian Rogers, the Household Man-Agricultural College, assisted the home demonstration agent, Miss Ruth Wheatley, at South Bessemer, Central Erwin and Wakefield.

Miss Rogers displayed a large exhibit of household conveniences, explaining and giving an interesting talk about each article. She actually made a fireless cooker so the ladies could see how simply they are constructed, then she made them feel the need of one, especially in the two-room farm house in the hot summer weather.

Miss Wheatley discussed foods, emphasizing the use of more fruits, vegetables, and milk, using the malnutrition chart, and the food charts that



The Sport Type of Hat May be Worn with Anything But the Most Formal Gowns, in Summer. This One is of White Hemp, Trimmed with Chenille to Match the Street Frock.

showed the amount of food for a family of five, closing with a food demonstration making Harvard beets and a raw carrot and celery salad.

As a result of the demonstrations and work offered by the home demonstration agent, a number of groups of ladies have organized to meet every two weeks to carry on project work in which they are especially interested.-Ruth E. Wheatley, Home Demonstration Agent, Gogebic County.

TO RENEW OILED MOPS.

The nicely oiled floor mops are a great help in keeping polished floors Can you tell me how to starch my If you have a steam pressure cooker, free from dust, but once they become one teaspoon of sugar per quart and washed in hot soapsuds, the dust-gathand save buying a new one by moistening with the following mixture: Store in a bottle large enough to shake it thoroughly before using: Kerosene, two ounces; parafin oil, eight ounces; lime water, two ounces; oil of lavender, one dram.

> Grease spots on wall paper can be removed by rubbing it with camphorated chalk.

Utilize Your Tin Cans

T is the little personal touches that A large ten pound coffee can held the make a house a home—those things, sugar and several five-pound ones held usually small in themselves, that show the rice and other cereals. This done you are interested in the art of house- away with the unsightly paper bags keeping. And many times the most and pasteboard cartons that make a attractive houses are not those that shelf look so untidy. are the most expensively furnished, but those that show the greatest cans is to steam breads and puddings amount of taste and care or attention. in. They are particularly suitable for One of the most charming kitchens I this if the pudding or bread is intendever saw was a farm kitchen and the ed for school lunches. Bread may also expenditure of money for the furnish- be baked in these cans and the chilings was small indeed.

The floor was painted and the walls the round slices. were painted apple green. But the one thing about the room that added more for cold mush that is intended for frythe array of enameled cans that filled will come out in smooth rounds that the pantry shelves and were in evidence in half a dozen places about the room. They were all sizes and shapes. There were baking powder cans, cof- in the round ones .- Nell Portrey. fee cans, cocoa cans and spice cans of various sizes. With automobile enamel these had been painted apple green and the name of the contents had been painted on in black. There were cans for everything that a can

Another practical use for the tin dren are always delighted with the lit-

The round cans are ideal receptacles to its attractiveness than all else was ing. The mush, if molded in them, can easily be sliced. The lids are nice for baking little cakes for the school luncheons, or little tarts may be baked

FARMERS' INSTITUTES IN GOGE-BIC COUNTY.



(Use this department to help solve your Household Problems. Address your letters to Martha Cole, Michigan Farmer, eDtroit, Michigan).

TO STARCH NET CURTAINS.

net curtains so t new?-Mrs. H. W. 103 Either starch them with clear starch

or rice starch. The recipe for making rice starch was in our May 12 issue.

TO CAN GARDEN PEAS.

Can you tell me some good way to can green garden peas so they will keep?—Mrs. W. R.

Select firm peas and wash thoroughand fit good rubbers to them. Fill the nishing it.

jars with a brine made of one gallon of water, two and one-third ounces of salt, three and one-half ounces of sugar, and seven ounces of lemon juice. Process in hot water bath for two hours.

you may add one teaspoon of salt and solled to the point of having to be process ten pounds of steam pressure ering property is lost. Renew the mop for forty minutes.

VARNISHING THE PIANO.

Could you tell me whether or not it would harm the tone of my piano in any way to varnish it?—Mrs. R. F.

The best authorities that I find state that there is absolutely no harm ten minutes. Pack in sterilized jars done to the tone of a piano by revar-

FROM April 12 to 21, interesting and wide-awake meetings were held in could be utilized for about a kitchen. Wakefield, Bessemer and Ironwood

A Preacher-Statesman Our Weekly Sermon-By N. A. McCuue

ple through politics have been of the place of honesty and goodness. "Wash "cloth." A few years ago I saw an you, make you clean; put away the instance of this. It was in London, evil of your doings from before mine England. The Reverend C. Silvester eyes; cease to do evil; learn to do Horne, a member of parliament, had well; seek judgment, relieve the opdied, and a memorial service was being held at his church, Whitefield's for the widow." Then he exclaims, Tabernacle. The crowds surged about "How is the faithful city become an the place as if it had been the funeral harlot! it was full of judgment; right of the prime minister. Horne had had eousness lodged in it, but now murder a passion for humanity, and the strain ers," referring, of course, to Jerusa of representing a borough in Parliament, in addition to the labors of his talked that way, and the people had big church, had killed him. Isaiah said. "Get out Amos, we don't like was prophet first, but slowly he was drawn into politics.

"The world knows little of its greatest men," says someone. Of the greatwe know but little. Only a few scraps preparation of the rearlier prophet. of biography have been picked up. Of Dante, the giant Italian writer, we have but little knowledge, and of Homer still less. The same is true of the greatest of the prophets. He was



e

tional strong. The goose

leprosy for interfering in the religious tion. Some time after this came render Grant, and Abraham Lincoln. Isaiah's call.

T is a powerful description. We have the facts concerning many a celebrated divine's "call" to service, but none like this. The young man, whose mind was filled with high ideals and who felt that the glory of his people had been stained with its love of luxury, and by, its pride, felt himself compeiled to become an ambassador of the Most High, the God of his fathers. Says he, "In the year that King Uzziah died I saw the Lord sitting on a throne, high and lifted up, and his train filled the temple. Above it stood the seraphims: each one had six wings; with twain he covered his face, with twain he covered his feet, and with twain he did fly. And one cried to another and said, "Holy, holy, holy, is the Lord of hosts: the whole earth is full of his glory." Then said I, "woe is me, for I am undone; because I am a man of unclean lips, and I dwell in the midst of a people of unclean lips: for mine eyes have seen the king, the Lord of hosts." He was true to his vision. For many years he was the conscience of the nation and has come down to us as one of the mightiest. characters of the Old Testament. He was always, a private citizen. He never, as far as we know, held office. But just as John Knox was the greatest man in Scotland in his day, just as Jonathan Edwards was the most influential man of his day, and Chyrsostom the giant of his time, Isaiah was of his. Genuine worth does not require that it shall hold office, in order to be seen. It shines wherever it is.

the people, beginning with the king. In his day no one could complain, "My people perish for lack of knowledge.'

U

SAIAH is not the first minister who He taught them that all the religious went into politics. Some men who services in the world, all the sacrifices have wrought mightily for the peo- and ceremonies, would not take the pressed, judge the fatherless, plead That was plain talk. Amos had lem. knockers; go and tell that to the folks back home, don't come around here.' But Isaiah d'd not have that trouble. He was never unpopular, as far as we know. Perhaps it was because of the doesn't count, but real work always counts.

ONG ago, in 1786, to be exact, a L minister named Cutler appeared the son of Amoz, but we know not who before the Continuental Congress and Amoz was, and he must not be con- pled that the Northwest Territory, fused with Amos, the prophet. His (now Michigan, Wisconsin, Ohio, inboyhood was spent probably in Jerusa- diana and Illinois), should never tolerlem, for he was ate slavery and that free schools one of the few should be planted everywhere, and city prophets. It that religion should be encouraged. was a time of na. Three-quarters of a century passed, prosperity. the Civil War came, and the North-The people were west Territory saved the Union. Withproud, the gov- out the five big states that had grown ernment was very out of the original area of the Northwest Territory, the Union cause would honked high. But have been impossible. Within sixteen later something happened. The king days after the first call for troops, had grown old, and the story is, that Ohio had forty regiments in training. he was in his last days stricken with Illinois supplied one soldier in ten, who wore the blue, and from these service in the temple. The whole peo- five states came the two Shermans, ple felt the disgrace, especially the Secretary Stanton, General Hayes, religiously-minded. It was a time of General Logan, James A. Garfield, national heart-searching and humilia- William McKinley, Unconditional Sur-

Are reformers needed in our time? Before me lies a little book of only a little over a hundred pages, called "Religious Foundations." It contains chapters by experts in different fields. Chapter five, "How Shall we Think of Society and Human Relations?" is by that great-hearted Englishman ',See-Bohm Rountree, the proprietor of the largest, or one of the largest chocolate factories in the world. He deelares that there will have to be reform in modern industry, if, it is to continue. Says he, "Look at the industrial warfare-the tens of millions of days of work lost every year in the United States and England through strikes and lockouts. And think of the hidden waste that is even more dangerous." He declares that all our troubles are spiritual at bottom. "Take Year Round any of the social evils from which humanity suffers, trace it to its underlying cause, and you will find some of Home Canning. spiritual failing—pride, vanity, love of power, avarice, sloth, or selfishness— that word which sums up all other words. What the world needs today is a great spiritual revival, whose im-mediate object is not the 'saving of mediate object is not the 'saving of souls in some future life, but the establishment here and now of a standard of life more creditable to human hearts and heads than that which ob-Whether we judge it tains today. from the social, the industrial, or the international standpoint, selfishness has failed as a motive."

SUNDAY SCHOOL LESSON FOR MAY 27.

Isaiah was a reformer. He taught he people, beginning with the king. his day no are sould screete (1). 1:1;6:1-13.

GOLDEN TEXT:-Here am I, send Isa. 6:8. me.'



Sunlight After Dark on the Farm

Good light is a comfort and happiness producer, the value of which cannot be reckoned in dollars and cents.

Plenty of cheerful light, of sunlight quality, is a tonic for mind and body. After sunset, human nature craves artificial light that is most nearly like

the natural light of the sun. That's why Union Carbide Gas light-

ing and cooking equipment has been placed on more than 398,000 farms, and why a vastly greater number of these installations were purchased in 1922 than during any previous year since Union Carbide was first produced by Union Carbide Company more than a quarter century ago.

Union Carbide-a modern miracle worker-has changed the habits and improved the mode of living of millions of people.

The most humble farm home can enjoy the benefit of this most wonderful of all gases, and at small cost avail of even better lighting than many city palaces have. This is because Union Carbide Gas provides an abundance of Sunlight after dark.

A simple apparatus, which can be placed in position in a couple of days, automatically brings Union Carbide in contact with water. Small concealed piping -quickly installed throughout the house, barns, and poultry buildings without disfiguring floors, walls, or ceilings



UNION CARBIDE users real-ize fullest measure comfort, econ-omy, convenience, and satisfac-tion, because of superior gas yield. tion, because of superior are y nur-uniform, dependable quality, pur-est gas. UNION CARBIDE in generator sizes is supplied by us direct to consumer at factory

We have Union Carbide Ware-houses in 150 cities. There is one near you.

carries the gas to all points where this beautiful, white, eyesaving light is desired.

You can cook with Union Carbide Gas, too; you can iron with it, and heat water for washing, bathing, and shaving.

This artificial Sunlight in the henhouses will unquestionably increase egg production. This increase will help pay for the added comforts all around the place.

UNION CARBIDE SALES COMPANY 30 East 42d Street, Dept. K-58 New York, N. Y. Please send me, without obligation, information on UNION CARBIDE Lighting and Cooking

NAME ... ADDRESS Note: Every owner of a Carbide Gas Lighting and Cooking Plant should write us, so he will be kept advised of our lowest direct-to-con-sumer prices and nearest warehouse address, and his name placed on our mailing list for future helpful service. I am not NOW a Carbide user



I few counties in your state are still open, for lo trators and sales representatives men or women profitable employment for part or full time. We ators and sales ofitable employs ulars.



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722---16



OUR BOYS AND GIR

Found In Our Letter Box

Letters from Pals for Our Correspondence Corner

Dear Uncle Frank: I have been working your contests every time, and had them' right quite often, so I thought I would send one in. Why didn't you have the picture of the waste basket taken while you were at your desk? Don't you think that would have been lots nicer? I do, anyway.

anyway. Well, I think I'll close my chatter-box for this time.—Another niece, Rose Anna Reimink, Holland, Mich., R. 3, Box 12. If the waste basket and I were in

the same picture it might be hard to tell which is which. I think the waste basket looks better alone.

Dear Uncle Frank:

Well, here I am again. All of you powder-and-paint boxes who wanted me to sit up and say something for

This is the way Frances J. Le Forge, Ypslinati, Looks While Thinking.

myself, must sit up and take notice

I thank very much all of those girls

T thank very much all of those gives who were on my side. I hope this letter does not see the waste-basket, for some gives would think they had won an easy battle. Good-Eye, Uncle Frank and cousins. Something tells me I have said enough. --Haorld Coles.

I was just beginning to wonder if you had any come back to you at all, Harold. This letter certainly shows you have. It really would look odd if you and I put on dresses and paint, and walked down the street. We wouldn't have to go to the asylum; they would take us there. But girls have privileges in that respect we do

Dear Uncle Frank: I hope I win this time. I have never won before, but I am going to try again as others have done. I have light hair. I had it curled the other day. It is not so nice to have it curled, because it pulls so, and you have to have all the snarls out. Do you go on fast time, Uncle Frank? We do, and when Bertrand and I used to go to school we wouldn't have to leave the house till nine o'clock, and when I get to school it is nine o'clock, too, because the school goes on slow time. I live on a tenacre farm. On the

I live on a ten-acre farm. On the Mich., R. 2.

farm we have thirty-three chickens. Bertrand always feeds them. Once, a long time ago I went out to get some-thing for my mother and there was a rooster right there and it began to fight me

fight me. Well, I guess I will have to close.— Yours truly, Bernice Fittins, Allegan, Mich.

We go on fast time here. Everything goes fast in Detroit-money and everything else. I bet getting snarls out hurts, but they say pulling the hair is good for it.

Dear Uncle Frank:

I have never entered your contests before because I knew I would not win a prize, so there was no use trying. I live on a hundred-acre farm three miles out of town. I am twelve years old and am in the seventh grade. I hope to be your niece but this letter will most likely end up in the waste basket, so I will close here so there won't be much to waste.—Your niece, Marjorie Smith.

You have the wrong idea about trying the contests. Nothing would be accomplished if we all thought there was no use trying.

Dear Uncle Frank: We have thirty four turkeys, forty-four chickens and three little ducks. They are just like little pets, because they follow me almost every place

I have a little dog, his name is Bill. I have a little dog, his name is Bill. He has whiskers, so we call him Billy Whiskers. I think he is the cutest little dog. When I was writing this letter, he sat by me to hear it, when I read it to myself.—Your niece, Mar-garet Fryer, Grand Rapids, Mich., R. 2.

It is a sure sign that you are kind when animals like you so well. It must be nice to have a dog so willing to help you in your correspondence.

THE WORK I LIKE BEST.

THE kind of work that I like best is cooking. I like it because I enjoy seeing the results of my work. I like it because it has always appealed to me. Another reason why I like to cook is because it is an indispensable art-one which mankind cannot do



Miles Beamer is Proud of His Prize Calves, "Pat" and "Mike."

without. A person who cooks has a certain responsibility in the use of materials, since she may be wasteful or economical. My mother is trying to teach me to be more eco Beatrice Shepard, Swartz Creek, Mich.

T^{HE} work I like best is gardening. I like to watch the plants grow, and supply the table with fresh vege tables. I like to save seeds from one year to the next. I have a cupboard I store the seeds in during the winter months.

Pushing the hand-cultivator, hoeing and pulling weeds gives plenty of ex ercise.-James K. Russell, Bronson

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Best Paying, Heavy Laying, Purebred Strains. Tom Barron English S. C. W. Leghorns-25, 82,50: 50, 85,00; 109, \$10.00; 500, \$45.00; 1000, \$90,00. Park's Strain Barred Rocks; S. C. Rhode Island Reds-25, \$3.00; 50, \$6.00; 100, \$12.00; 560, \$55.00; 1000, \$110.00. Good strong broiler chicks \$8.90 per 100. Place your order at once: avoid disappointment. Get your order at once: avoid disappointment. Get your order at once: avoid disappointment. Get your order at once: mature stock, 8-12 weeks old pullets on request.] Brummer Fraderickson Dealter Form

Brummer Frederickson, Poultry Farm Box 20 Holland, Mich.

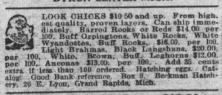
Whittaker's R. I. Reds ROSE AND SINGLE COMBS

Michigan's Greatest Color and Egg Strain. Bred from Winter Layers for 13 years. One customer reports flock average 54 eggs per hen for Dec-emberiand January. A short poultry crop this sea-son, Better late chicks than none. Prices of chicks and eggs greatly reduced for June and July. Write for our free catalog and get your order in early.



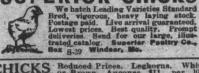
For June delivery Barron S.C.W. Leghorns from trap nested stock 10c. Sheppards Anconas 11c. Barred Rocks 12c each. Special price on eggs for hatching. We guarantee asfe delivery and prepay all shipments, Write for our new price last with reduced prices and catalogue before you buy. A card will bring it.

BYRON CENTER POULTRY FARM BYRON CENTER MICH.



Baby Chicks \$12.00 per Hatching eggs, \$1.50 per setting to 315.00 per 400. We are listing 17 variables of pure bred fowls; Chick ous, Geese, Ducks & Guiness, also breeding stork. Seud for prices and circular. Booking now for early delivery. CLINTON HATCHERY & POULTRY WARMS, Wilmington. Ohlo.

SUPERIOR CHICKS



CHICKS Bedneed Prices, Legkorns, White or Brown, Anconas SII, per 100 Rocks, Reds, Orpingtons, SIS, per 100, Live Delivory guaranteed, Eage SL50, per 15. Okroular free. BANKER & RANKUE, Box: H. Knoxville. Tena

YOUNG ROOSTERS WANTED

\$2.00 to \$3.00 can be had for each young rooster you can spare. There is a poultry buyer near you who will gladly pay you these prices or more. All you have to do is to write the breed you have, being sure to state how many young roosters you can spare in first letter. Address it to GEORGE BEUOY, POULTRY EX-PERT. R. R. No. 40, CEDARVALE, KANSAS.

Additional Poultry Ads. on Page 729

THE FUNNIEST THING I EVER swers easy. The correct answers are HEARD.

MY little cousin, aged seven, stood looking for the first time at his new baby sister. After gazing for a few minutes he said, "Why, Mamma, it looks like Pa. Do you suppose it's str any relation to him?"-Mary E. Blashill, Snover, Mich., R. 2.

Mother and children were sitting outdoors on a summer night. Mother said, "How nice and cool it is out doors. Her four-year-old daughter, Marion, said, "Don't you wish our to correspond with other boys and house was outdoors, Mother?"-Abbie girls who are interested in this de-Brouwer, Kalamazoo, Mich.

This is one of the most amusing incidents I have ever heard. It may not appeal to you as it does to me, but if you could have seen the man of whom Mich., R. 2. I write, it certainly would. He is tall, boney, homely, and not very smart.

One night he was out of doors, and it. was real dark. He had his arm stretched out before him so as not to run into anything, when to his misfortune his arms went at each side of a post and his poor nose found the post first.

I wish you could have seen the look that was on his face as he came in the house, rubbing his nose furiously, and honestly said: "Well, by goll, that's the first time I ever knew my nose was longer than my arms."-Marjory Hellman, Six Lakes, Mich.

THE SUCCESSFUL AD. READERS.

M ANY young folks got the ad. reading contest correct and will receive Merry Circle buttons and cards on that account. The following were selected as the ten prize winners because they wrote thir contest papers neatly and had their answers short but correct:

but correct:
The following two got pencil boxes: Ruth Leader, Blissfield, Mich., R. 5.
Milo K. Chew, Bay Shore, Mich.
Winners of the pocket pencils are: Nora Halpín, Lapeer, Mich.
Beth E. Ouellette, Marine Ctiy.,
Mich., R. 3.
Kenneth Dean, Ada, Mich., R. 1.
Those who got maps are: Elliza Turner, Brutus, Mich.
Lois M. Waldron, Weston, Mich., R. 1.

R. 1.

Anna N. Blank, Perrinton, Mich., R. 1. Irene Hutton, Fostoria, Mich. Milton E. Lezel, Vassar, Mich., R. 4,

Box 41.

PLEASE SIGN YOUR NAME.

E VERY little while I get letters without names or addresses on them. Half of the fun in getting letters is in knowing who you are getpapers that are unsigned—some of Mich., R. 5. Evalyn Campbell, 423 Fifth Street, Evalyn Citre Mich. ting them from. I also get contest if the names and addresses had been Traverse City, Mich. Esther Holm, Ishpeming, Mich., on them.

The other day Vera Hodge, of Allegan, Michigan, R. 8, got a nice letter from one of the girls who had seen R. her name in the paper, but it had no name or address. That girl will think R. Vera is a dandy because she does not answer. But really, the girl is a dandy for not signing her name.

So, please be sure to sign your name and put your address on all letters Box 118. you send out. And if you send in a

THE ad contest must have been easy, so many got it correct. Perhaps the reading of ads is pleasant, president but anybody can tell him and that made finding the correct an- how.

follows:
1. Ten or more-35-675.
2. Ear tags-35-675.
3. Overland-658-18.
4. Hercules Engine-23-663.
5. Hofstra Mfg. Co31-671.
6. Hercules all-steel triple pow
ump puller-25-665.
7. C. H. Prescott & Sons-678-38.
8. A. M. F. Sickles-676-36.

er

9. Vaeuum Oil Co.-10. 10-15 per cent-11-651.

WANT TO GET LETTERS.

The following young folks would like partment and the Merry Circle.

Claude N. Leline, Roscommon, Mich. Irene Burzyck, Elkton, Mich., R. 2. Margaret Nash, Bellevue, Mich., R. 5. Ivan J. Frantz, Sunfield, Mich. Edith Hatovsky, Benton Harbor,

Martha A. Southwell, of Corunna,

Read-and-Win

Now that we will have contests every week, we are going to have the Read-and-Win kind more often.

The usual ten prizes will be given; also Merry Circle buttons and cards will be given to all who get the answers correct who do not have buttons now.

Hunt the answers to the following questions in the reading columns of this issue. Please don't repeat the question, and write the answer as short as. possible. And don't forget to give the number of the page upon which you found the answer. This contest closes May 31.

Address Uncle Frank, Michigan Farmer, Detroit, Michigan. 1. Who feeds three pounds of skim-milk to one pound of grain to pigs?

2. What was the per capita consumption of beef in 1921? 3. What is a good mixture for oil mops?

Who calls her dog Billy Whiskers? 5. What increase in potato yield did spraying tests give in Michigan?

6. What is the only substitute of value for linseed oil in paint-

7. What is often a sign of liver trouble in hens? 8. What was the annual per capita consumption of milk in 10212 1921?

9. What was the value of the "stuff" one-half million young-sters grew? 10. How can grease spots be removed from wall paper?

Box Lillian Johnson, Freeland, Mich. Symons A. Hendra, Applegate, Mich.,

Archie Roberts, Fennville, Mich. Lillian Rodanlusler, Dorr, Mich.,

Ellen Skinner, Batavia, Mich., R. 1. Esther Rutledge, Pickford, Mich. Everett McDownie, Spruce, Mich., R. 1.

Geneva Engwall, East Lake, Mich.,

ox 118. Opal Bogart, Lapeer, Mich., R. 3. Carl Ochmke, Sebewaing, Mich. Gladys Campbell, Traverse City,

you send out, and you write to me, put your name and address on that, too.
If you want to help me a lot in handing the contest papers, you will write your letters on separate sheets and on one side of the sheet only. And then, don't forget, put your name and address on both.—Uncle Frank.
AD READING CONTEST.
Contest double of the sheet must have been
Contest double of the sheet must have been

Says Sam: Not everybody can be

White Diarrhea

Remarkable Experience of Mrs. C.M. Bradshaw in Preventing White Diarrhea

The following letter will no doubt be of utmost interest to poultry raisers who have had serious losses from White Diarrhea. We will let Mrs. Bradshaw tell of her experience in her own words:

own words: "Gentlemen: I see reports of so many losing their little chicks with White Diarrhea, so thought I would tell.my experience. I used to lose a great many from this cause, tried many remedies and was about dis-couraged. As a last resort I sent to the Walket Remedy Co., Dept. 507, Waterloo, Iowa, for their Walko White Diarrhea Remedy. I used two 50c packages, raised 300 White Wyandottes and never lost one or had one sick and never lost one or had one sick after giving the medicine, and my chickens are larger and healthier than ever before. I have found this company thoroughly reliable and always get the remedy by return mail.—Mrs. C. M. Bradshaw, Beaconsfield, Iowa."

Cause of White Diarrhea

White Diarrhea is caused by the Bacillus Bacterium Pullorum. This germ is transmitted to the baby chick through the yolk of the newly hatched egg. Readers are warned to beware of White Diarrhea. Don't wait until it kills half your chicks. Take the "stitch in time that saves nine." Re-member, there is scarcely a hatch member, there is scarcely a hatch without some infected chicks. Don't let these few infect your entire flock. Prevent it. Give Walko in all drinking water for the first two weeks and you won't lose one chick where you lost hundreds before. These letters prove it:

Never Lost a Single Chick

Mrs. L. L. Tam, Burnetts Creek, Ind., writes: "I have lost my share of chicks from White Diarrhea. Finally I sent for two packages of Walko. I raised over 500 chicks and I never lost a single chick from White Diarrhea. Walko not only prevents White Diar rhea, but it gives the chicks strength and vigor; they develop quicker and feather earlier."

Never Lost One After First Dose Never Lost One After First Dose Mrs. Ethel Rhoades, Shenandoah, Iowa, writes: "My first incubator chicks, when but a few days old, be-gan to die by the dozens with White Diarrhea. I tried different remedies and was about discouraged with the chicken business. Finally I sent to the Walker Remedy Co., Waterloo, Iowa, for a box of their Walko White Diar-rhea Remedy. It's just the only thing for this terrible disease. We raised 700 thrifty, healthy chicks and never 700 thrifty, healthy chicks and never lost a single chick after the first dose."

You Run No Risk

We will send Walko White Diar-rhea Remedy entirely at our risk -postage prepaid-so you can see for yourself what a wonder-working rem-edy it is for White Diarrhea in baby chicks. So you can prove—as thou-sands have proven—that it will stop your losses and double, treble, even quadruple your profits. Send 50c for package of Walko- give it in all drinking water for the first two weeks and watch results. You'll find you won't lose one chick where you lost hundreds before. It's a positive fact. We guarantee it. The Leavitt & Johnson National Bank, the oldest and strong-est bank in Waterloo, Iowa, stands back of this guarantee. You run no risk. If you don't find it the greatest little chick saver you ever used your little chick saver you ever used your money will be instantly refunded.

WALKER REMEDY CO., Dept. 507. Waterloo, Iowa.

Waterloo, Iowa. Send me the [] 50e regular size (or [] \$1 economical large size) package of Walko White Diarrhea Remedy to try at your risk. Send it on your positive guarantee to in-stantly refund my money if not satisfied in every way. I am enclosing 50c (or \$1.00). (P. O. money order, check or currency ac-ceptable.)

Name Town

Mark (X) in square indicating size pack-age wanted. Large package contains nearly three times as much as small. No war tax.



THE MICHIGAN FARMER



MAY 26, 1923.

from heavy egg type birds. A continued cold spring has caused many delays in the purchase of baby chix Our carly maturing chix from culled flocks which have been carefully mated will make you proficable winter inyers. Even the the season is rather lace we can supply you with dune chix which will mature rapidly and make you proficable winter layers. JUNE PRICES SHIPPED P. P. PREPAID

Song Prices Shipped P. P. PREPAID Select B. P. Rocks and R. I. Reds 50, \$7,00, 100, \$13,00; 500, \$50,50, Buff Orpingtons, W. P. Hocks and White Wyandottes 50, \$3,00; 100, \$15,00; 500, \$72,50. EXTRA SELECT high trade B. P. Rocks and R. J. Reds, 50, \$5,60; 100, \$16,00; 500, \$77,50. Our large ca-pacity will enable us to fill your order on the date we promise you. 100% live delivery guaranteed.

THE MILAN HATCHERY

Box 4 MILAN, MICHIGAN

Chicks after May 15th



A Handy Arrangement to Give the Chicks a Chance to Eat Without Interference From Older Chickens.

on a track at the rear and the eggs out them .-- Eds.) are removed by lowering the door in front. Then the eggs can be gathered ! often.

HENS EATING EGGS.

Keep the hens busy in scratching litter and turn them out on range if possible. When they are busy outdoors they have less time to form bad habits in the poultry house. Provide the hens with plenty of oyster shells so the eggs will have firm shells and not break easily in the nests.

BLIND CHICKS.

I have some little chicks about three weeks old which have an eye disease. The eye becomes closed and they can't see.—W. H. H.

The eye troubles among chicks are inflammation of membranes around closes the lid. I think the common cause of this trouble is dusty litter. The floor of a brooder house becomes very dry from the heat of the stove and the dust is constantly kicked into the air from the scratching of the birds. The frequent cleaning of the brooder house floor is one remedy.

A little boracic acid may be used to cleanse the eyes and help them to stay open. Witch-hazel is also useful for that purpose. If there are colds in the flock it often pays to color the drinking water with potassium permanganate to keep the trouble from spreading. Sometimes a chick will go stone blind from causes which seem difficult to determine and in such cases the only remedy is to put the bird out of its misery as soon as possible.

GOBBLER WITH SORE FOOT.

Could you tell me what is the mat-ter with our gobbler? His foot is swol-len so that he can't step on it. It gathered and broke yesterday but he seems worse today. What can I do for him?—Mrs. H. D. S.

The gobbler may have an abscess in the foot. This is called bumble foot mortem on a hen that dies from an or pricks, from thorns or sharp nails further losses.

are slightly darkened. The hens enter prompt replies cannot be given with-

may cause a similar condition. Make an incision large enough to remove

the cheesy pus which does not drain

through a small opening. Then wash

the wound with iodine and protect it

with a bandage of absorbent cotton.

Place the bird where it will walk on

clean straw to avoid dirt and infec-

tion. Several dressings of the wound

What is the matter with my chicken? She pokes her head under her body and then turns a sommersault on her back. She is not lively like a healthy hen ought to be, but her ap-petite does not seem to be impaired.— L. V. S.

Hens are subject to diseases of the nerves and brain. Congestion of the brain sometimes occurs in heavy birds causing dizziness. Dizziness may be caused by the absorption of poisons from the digestive tract.

Hens may also have epilepsy and a disease called myletis, which is inflammation of the spinal marrow or usually due to colds which cause an membranes. A bird with any type of nervous disorder should be isolated the eye. The secretion soon tightly and given a dose of epsom salts, but aside from that very little can be done. Usually there will be very few losses from such troubles when the hens have normal care.

HEAD TURNS DARK.

My chickens are affected with a dis-ease and I cannot quite tell what is wrong with them. Their combs, wat-tles, and even their face turns blue, and they hold their heads down. The feathers are ruffled in the neck. Some of them die after a couple of days.— H. M. K.

When a hen's head turns dark it is often a sign of liver trouble. This is most apt to occur after the birds have been confined a long time with plenty of corn in the ration, but a lack of exercise. There is no treatment for a RARY bird from that cause, as the trouble is discovered too late. It can usually be prevented by making the hens scratch in deep litter for their grain, and feeding plenty of green food which acts as a tonic for the liver and provides bulk to go with the more concentrated ration of mash.

It usually pays to perform a postand is usually started by an injury unknown cause, and then examine the caused from jumping from a high internal organs. This may furnish inperch to a hard floor. Stone bruises formation that is useful in preventing



HICKS

You can now send your order for Chicks in 11 breeds Barred Ricks Breed Practical Poultry that is making White Rocks White Rocks Crahingtons Lephorns-Wh. Br. But Anconas

STATE FARMS ASSOCIATION 201 Chase Block, Kalamazon, Michigan,



Are you going to buy them from a hatchesy or from a BREEDER? Buy from Michigan's Largest Legnom Parm and insure surcess. We hatch our own eggs only. Supply limited. Prices reasonable. Satisfaction cuaranteed. Descriptive circular tells all about them IP's free. Simon Harkema & Son, R. 1, Holland, Mich.

From pure bred stock English Strain White Leg-borns \$12.00 per 100, \$57,50 per 500. Anconas \$12.00 per 100, \$57,50 per 500, Rhode Island Reds and Barred Rocks \$60 for 50, \$15.00 per 100, \$72,50 per 500. Order from this adv, and save time or send for ceta-log and price list. PETERSBURG HATCHERY PETERSBURG MICHIGAN

Standard Chicks Satisfy! C. English White and S. C. Brown Leghors Chicks. incrons. Healthy Early Maturing Ohicks at whole-vie prices. We satisfy our customers, 100 per cent ve delivery. Postpaid. Catalog free. tandard Hatchery, Box B. Zeeland, Michigan

RHODE ISLAND WHITES win over all breeds at the egg laying confect. 30 eggs 55, 50 \$5: 100 \$15 order from this ad. Some chicks E. H. JUMP, 175 Prospect Bivd., Jackson, Mich

best remedy is to have nests which dress when sending in inquiries as POSSIBLY POISONING.

3.00; hite

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Making Money Spraying Spuds

(Continued from page 709

and from ten to forty-three per cent sidered the standard. If the mixture on late varieties in the absence of is applied often enough and with suffilate blight.

Some of the above increases may be due in part to control of flea-beetles formula will produce very satisfactory and leaf hoppers, but this is an added results argument for the thorough use of copper sprays, even in those sections where early and late blight are not pared materials which are effective serious or of frequent occurrence. Spraying Reduces Tip-burn and Hopper-burn.

greenish insect that so often flies out dence to date points to the fact that a in clouds when you walk through the powdered Bordeaux is not as efficient vines. It is responsible for serious as the faste form. This is largely due damage to the leaves which curl at to the fact that the spreading and the edges and die as a result of the sticking qualities are reduced by the attack of the pest. This injury is destruction of the "Bordeaux films" in known as hopper-burn. What is known the drying process, When mixing with as "tip-burn" is a very similar type of water these films never regain their injury and is supposedly caused by original form and the material thereexcessive transpiration of moisture of fore fails to spread and stick as well the leaves during the dry weather, as the paste. This injury has undoubtedly been confused to some extent, at least in the chased on a basis of the amount of past, with hopper-burn. Since 1911 it copper they contain. Other factors beis estimated that in Michigan hopper- ing the same, the higher the percentburn has reduced the crop of late po- age of metallic copper guaranteed, the tatoes twenty-five per cent, and of more efficient they will prove. A fine early potatoes fifty per cent.

pecially the under side, with a copper ities to be demanded in the selection spray is an effective means of reduc- of prepared mixtures. ing the amount of both hopper-burn and tip-burn, and preventing loss in in at least the first one or two appliyield. In Ohio during 1921 hopper-burn cations of any copper spray for potato was the principal foliage trouble against which spraying was directed. nicotine sulphate should be added. Forty-seven potato growers in nine counties made sixty tests on one-half acre or more. The average increase maximum results from potato spray from spraying in all these tests was ing, and that is to apply the right mathirty-one bushels per acre. Four ap- terials frequently and at the right time plications of spray gave a net gain of under high pressure and with the noz-\$55.70 per acre.

More Growers Should Spray.

percentage of the total potato acreage is sprayed at all and much of this is quirements are not observed. not sprayed in an efficient manner. Although good potato spraying is being developed to a high degree in ous. Spray as soon as the first beetles Pennsylvania, it is estimated that not more than about five per cent of the total acreage of the state was sprayed last year and it is not probable that many other states can show a higher percentage.

Why is it that a larger proportion of potato growers do not spray thoroughly if they spray at all? In the times. writer's opinion, the use of poison sprays alone and low pressure onenozzle-to-the-row sprayers are largely responsible. Potatoes were first sprayed with Paris green or other arsenicals for the control of the Colorado potato beetle, and spray machines were developed which are fairly well adapted to applying strong doses of poison for the bugs. Such machines give disappointing results, however, in son. It doesn't pay to spray for bugs applying a copper spray for the control of blight, leaf-hoppers and fleabeetles. To prevent the attacks of these pests it is essential that a fine' mist be applied to both sides of the depended upon to give results. leaves at high pressure, thus insuring, a complete covering of the foliage. Repeated failures to control anything but potato bugs with such machines have led many growers to control anything out ever having tried really good potato spraying. There is more to spraying than simply poisoning potato bugs. expense, an increase in yield of more than fifty bushels per acre can very grower. often be obtained.

of over ten per cent on early varieties, The 4-4-50 mixture is generally concient thoroughness, there is plenty of evidence to indicate that the 4-4-50

Commercial Preparations. There are on the market several presubstitutes for Bordeaux mixture. Some of them contain a poison for potato beetles. These are put out in both The potato leaf hopper is that small paste and powder form. All the evi-

Commercial pastes should be purphysical condition, freedom from grit Thoroughly coating the leaves, es. and high sticking power are also qual-

A poison should always be included beetles, and if aphis appears later on,

How to Obtain Maximum Results. There is just one way to obtain zles arranged so as to spray both sides of the leaves. There is no way to get In spite of this evidence only a small around this, and disappointing results are almost sure to follow if these re-

Spray Early. Do not wait till bugs become numerappear, and again when the eggs begin to hatch, using a poison in a good, well-made Bordeaux spray.

Spray Often.

Once or twice is not enough. Three or four times should be considered the minimum. If late blight becomes serious it may pay to spray five to eight

Use Enough Material.

From fifty to one hundred gallons of the spray mixture per acre are required to thoroughly protect the foliage. The exact amount will depend somewhat on the size of the plants but less than fifty gallons will not do a thorough job.

Spray with the Right Material.

Use a combined fungicide and poialone. Be sure that you use only a material that is well prepared, is free from grif and won't clog the nozzles, but will stick to the leaves and can be

in expecting good results.

Spraying will pay better in some Combine the poison each time with a years than in others. It must be lookcopper spray and for the same ed upon, however, as crop insurance. amount of labor and but little more Over a series of years it will return handsome dividends to the careful

Bordeaux mixture is one of the most "The present system of marketing gives very satisfactory results when duction on the one hand, and consumpproperly made and correctly applied. tion on the other."-Walton Peteet.



"The Goodyear Klingtite Belt I bought from you in 1918 has delivered the best service of any belt I have used during my 22 years of threshing experience. It has a record of 102 threshing days and 261,000 bushels threshed."-G. T. SELTVEIT, Delamere, N. D.

MANY of the readers of this magazine have seen the very Goodyear Klingtite Belt to which Mr. Seltveit refers, at implement dealers' conventions in Minneapolis, Fargo and Grand Forks. They have heard from Mr. Seltveit's own lips the story of its faithful performance-powerful, slipless and trouble-free-and have heard him predict that it will last three or four seasons more.

Goodyear Klingtite Belts are made in endless type for heavy duty and in cut lengths for lighter drives. They are sold by Goodyear Mechanical Goods Service Station Dealers and by many hardware dealers



Excerpts From a lew of the Scores of Complimentary Letters in Our Files. R. W. VROMAN, ALMA, MICH, writes: Rec'd the when placing her order this year for 300: The ones chicks Apr. 3 in fine shape. 206 live chicks. We I got from you last year are the best layers I ever have 300 yet and OH BOYI They are dandles. FRED 6. OWEN, PONTIAC, MICH, writes: I FLW, ZAHORIK, CATO, WIS., an old experienced red'd chicks from you Apr. 25 and got the first egg breeder, writes: Chicks came in first class condition. Aug. 24, 1922. We think this is a pretty good record. Not one was dead. You certainly hatch strong, large Our chicks are admired by every one that comes here. husky chicks again this year. MR. CHICK BUYER: Think these facts over carefully. Sin't it worth at least the price of the chicks to have good, dependable stock? You cannot afford to be without this noted, tested and tried strain. PHICES S. C. Brown Leghorns, the each; S. C. Aneonas, Lic each; Mixed chicks 7c each. 5% discount on lots of 500 or over, JULY DELIVERY; Le per chick less. A deposit of 10% books your order for shipment on any date you desite. June and July chicks develop into heavy winter haves and especially on account of the takes will find yourself among the ranks of those that reap. the golden harvest next winter. PULLET prices of request. BEAUTIFUL INSTRUCTIVE CATALOG FREE. **DISTING ON INSTRUCTIVE CATALOG FREE**.

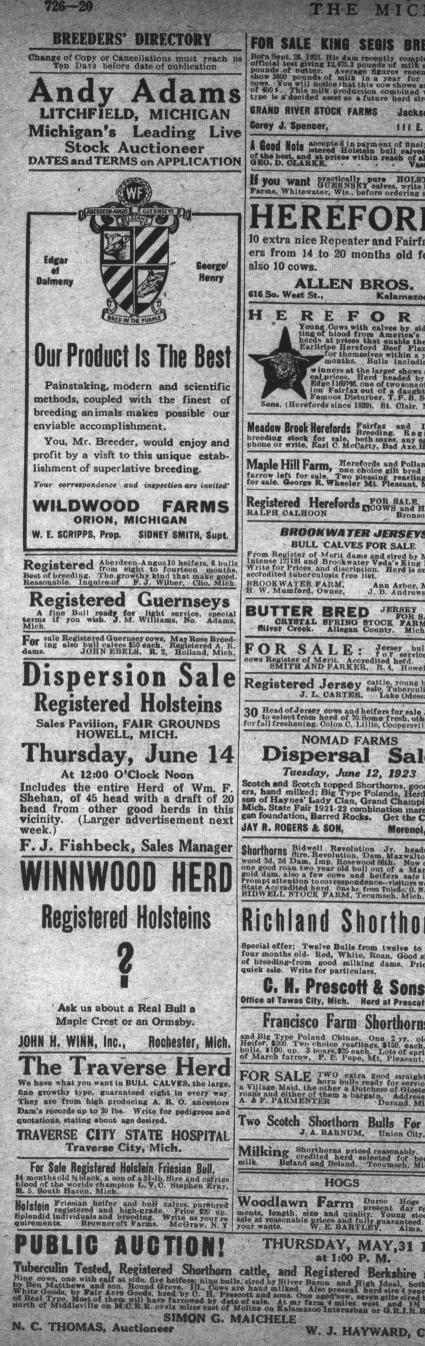
RURAL POULTRY FARM, J. Janssen Proprietor Zeeland, Mich. Dept. 79, R. 1. Member: Michigan State Farm Bureau Michigan Baby Chick Association



Baby **DOWN GOES THE PRICE OF RELIABLE CHICKS** Special bargains for June shipment, chicks almost at cost

have led many growers to condemn zles to the row, using as fine nozzles statisfaction guaranteed, or your money back, handsome Catalog free, statisfaction guaranteed, or your money back, handsome Catalog free, English W.L. per hundred \$10.00 English W.L. per thousand \$ 95.00. leaf and stem and you can't go wrong Park's Strain B.R. per hundred 13.00. Park's Strain B.R. per thousand 120.00.





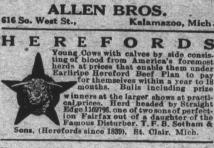
THE MICHIGAN FARMER

FOR SALE KING SEGIS BREEDING Born Sept. 25, 1922, His dam recently completed semi-official test giving 12,475.3 pounds of milk and 449.004 pounds of butter. Average figures recently given show 3600 pounds of milk in a year for Michigan cows. You will notice that this cow shows an increase of 4005. This milk production combined with show type is a decided asset as a future herd sire. GRAND RIVER STOCK FARMS Jackson, Mich. III E. Main St.

A Good Nois accepted in payment of finely bred reg of the best, and at prices within reach of all. Write GEO, D. OLARKE, Vasasr, Mich If you want practically pare HOLSTEIN or GUERNSEY calves, write Edgewood Farms, Whitewater, Wis., before ordering anywhere,

10 extra nice Repeater and Fairfax heifers from 14 to 20 months old for sale,

Kalamazoo, Mich



Meadow Brook Herefords Fairfax and Disturber breeding stort for sale, both sexes, any age. Call, phone or write, Earl C. McCarty, Bad Axo, Huron Co. Maple Hill Farm, Herefords and Polland Chinas one choice gilt bred for May farrow left for sale. Two pleasing yearling heifers for sale. George R. Wheeler Mt. Pleasant, Michigan

Registered Herefords FOR SALE. BULLS RALPH CALHOON BCOWS and HIEFERS

BROOKWATER JERSEYS

BULL CALVES FOR SALE

From Register of Merit dams and sired by Majesty's Intense 127191 and Brockwater Veda's King 166615. Write for Prices and discription. Herd is on federal accredited subsrculosis free list. BROOKWATER FARM, Ann Arbor, Michigan H. W. Mumford, Owner, J. B. Andrews, Lessor,

BUTTER BRED JERSEY BULLS FOR SALE GRYSTAL SPRING STOCK FARM. Gilver Creek. Allegan County, Michigan.

FOR SALE: Jersey bulls ready cows Register of Merit. Accredited herd. SMITH AND PARKER, R. 4. Howell. Mich. Registered Jersey sale, Tuberculin tested J. L. OARTER, Lake Odessa, Mich.

30 Head of Jersey cows and helfers for sale . Chance to select from herd of 70. Some fresh, others bred for fall freshening. Colon C. Lillie, Coopersville, Mich

NOMAD FARMS



Scotch and Scotch topped Shorthorns, good milk-ers, hand milked: Big Type Polands, Herd sire, a son of Haynes' Lady Clan, Grand Champion sow Mich. State Fair 1921-22 combination marest Mor-gan foundation, Barred Rocks. Get the Catalog. JAY R. ROGERS & SON, Morenci, Mich.

Shorthorns Bidwell Revolution Jr. heads herd, sire, Revolution, Dam, Maxwalton Rose, wood 3d, 2d Dam, Imp. Rosewood Stih. Now offering one good roan two year old bull out of a Marr Mari-gold dam, also a few cows and heifers sate in calf. Prompt attention to correspondence-visitors welcome. State Accredited herd. One hr, from Toledo, O. N.Y.C. Rr. BIDWELL STOCK FARM, Tecumseh, Mich., Bor D

Richland Shorthorns Special offer: Twelve Bulls from twelve to twenty four months old- Red, White, Roan, Good size, best of breeding-from good milking dams. Priced for quick sale. Write for particulars.

C. H. Prescott & Sons,

Office at Tawas City, Mich. Herd at Prescott, Mich Francisco Farm Shorthorns

and Big Type Poland Chinas. One 2 yr. old bred Heifer, \$200. Two choice yearlings, \$150. each. Three buils, \$100. up. 3 boars, \$25 each. Lots of spring pigs of March farrow, P. P. Pope, Mt. Pleasant, Mich.

FOR SALE TWO extra good straight Shors a Village Maid, the other a Dutchess of Hoster, both roans and either of them a bargain. Address A. & F. PARMENTER Durand. Michigan

Two Scotch Shorthorn Bulls For Sale J. A. BARNUM, Union Oity, Mich.

Milking Shorthorns priced reasonably. An ac-milk. Beland and Beland, Tecumseh, Michigan

HOGS

Woodlawn Farm Duroc Hogs aents, length, size and quality. Young stock for ale at reasonable prices and fully guaranteed. Write our wants. W. E. BARTLEY, Alma, Mich

THURSDAY, MAY,31 1923 at 1:00 P. M.

Tuberculin Tested, Registered Shorthorn cattle, and Registered Berkshire sows Nine cows, one with calf at side, five heifers, nine bulls, sired by Silver Baron and Aigh Ideal, both bred by Ben Matthews and son, Round Grove, III. Cows are hand milked. Also present herd sire 4 years old white Goods, by Fair Acre Goods, bred by C. H. Prescott and some. One aged sow, seven silts sired by some white Goods, by Fair Acre Goods, bred by C. H. Prescott and some. One aged sow, seven silts sired by some source of the source o es west and 15

W. J. HAYWARD, Clerk



SKIM-MILK when fed in connection with grain makes a very nutritious and valuable feed for growing pigs. I have never found a feed that will take the place of milk for feeding sows nursing their litters, and for growing the pigs before and after weaning.

There are essential ingredients in skim-milk, such as casein, milk, sugar and ash, that makes it a valuable feed for growing pigs where rapid bone and flesh formation is desired.

To obtain best results from feeding skim-milk to growing pigs it should be fed in combination with other grains. If the self-feeder is employed in growing the pig crop the skim-milk may be fed three or four times daily in a trough near the self-feeder. If the slop method is used mix the feed in the skim-milk.

I mix the grain into the skim-milk for feeding my growing pigs. I think the pigs do better, at least, up to the time they are weaned.

Where a large amount of skim-milk is at hand care should be exercised not to over-feed. In this there is some danger. I find that a good rule to follow is to allow about three pounds of skim-milk to one pound of grain. I mix my slop until it is wet, but not sloppy.-Leo C. Reynolds.

FEEDING CONCENTRATES PAYS.

E XTENSIVE steer feeding tests in Ohio indicate that the use of concentrates in feeding is again profitable. During the high price time, the use of concentrates was eliminated to quite an extent. But since prices have taken a tumble, they have again become economical to feed.

In one case, two and a half pounds of cottonseed meal per day, along with thirty-five pounds of silage and seven pounds of corn were fed. The steers thus fed gained two and a quarter pounds.

SAVE TIME-LET THE CATTLE DO IT.

FIX up the barnyard or feed lot with a rubbing pole. The cattle are happier, grow fatter and are more profitable if they are provided with a o. I. C. March pigs. single or in pairs, also pole on which they can scratch their OLOVER LEAF STOCK FARM, Monroe, Mich. backs and necks.

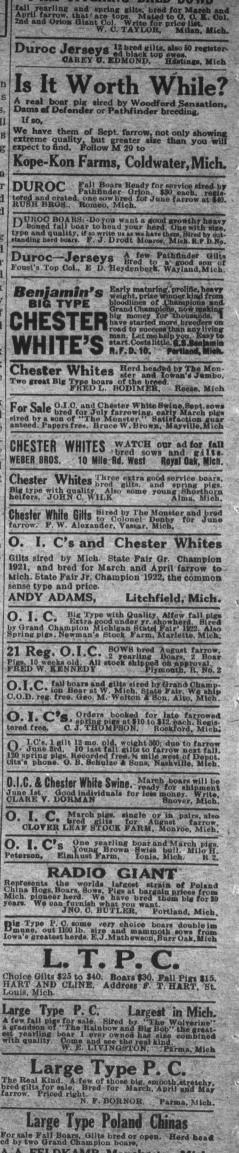
Such a pole may be prepared by wrapping with gunny sacks and then soaking these sacks with crude oil. The pole is then hung horizontally at a height to permit the cattle to make their toilet preparations.

The results are that the neck of the animals, where the lice_collect in the greatest numbers, is constantly kept covered with crude oil, to the very great discomfort of the insects. The pole also enables the cattle to rub ox-warbles out of the back.

JOB HOLDERS EAT BEEF.

L ABORING conditions affect the consumption of beef. A fraction LABORING conditions affect the consumption of beef. A fraction of our population is able to eat beef all the time. But variations in emall_the time. But variations in e ployment and wages cause rather wide fluctuations in the quantity of meat purchases.

Present conditions are highly favorable for the consumption of this product. In 1921 the per capita consumption of beef was 57.8 pounds. A year later, when the laboring classes were better employed, this consumption jumped to 61.4 pounds. But during the interval from 1908 to 1912, the American people were eating a per capita average of ten pounds above the present rate of consumption.



A. A. FELDKAMP, Manchester, Mich. BOARS READY for service, Spring boars at ion Again) for Servic farrow. They are priced to call and shipped on approval. Dorus Hover, Akron, Mich T.P.C. Two fall boars left, am now booking order or forstpring Figs delivered in May at margain prices. Vite for prices and plan of selling. They have made bood and will again. M.M. Patrick, Gd Ledge Mich.

Walaut Alley Big Type P. C. Gilts all so to my customers for their patronage c and all that inquired. A. D. Gregory, B.S. Large Strain P. C. 2 nice situs with pies by side, al so H. C. BWARTZ, Schooleraft, Mich.

MAY 26, 1923.

TAM OFFERING BRED SOWS

...

Veterinary.

CONDUCTED BY DR. W. C. FAIR.

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

Eczema.—My twelve-year-old horse is troubled with an itchy skin. Lieed him hay and oats. P. D., Burt, Mich. —Apply one part coal tar disinfectant and thirty parts water twice daily.

and thirty parts water twice daily. Sore Mouth.—I have a cow which seems to be in perfect health, gives a nice mess of milk, but after chew-ing food drops a portion of it out of mouth. R. C. R., Metamora, Mich.— If you will make a careful examination of her mouth you may find a piece of wood or wire lodged between two of her teeth, or she may have a split tooth. A removal of the cause is the remedy. remedy.

tooth. A removal of the cause is the remedy. Navel-III.—We have a flock of sheep and have been feeding them all the ensilage they will eat, also mixed hay and cornstalks. Soon after the birth of lambs they are taken with diarrhea and usually die before they are three days old. What is the cause of their death? H. S. Harrison, Mich.—This is not such a common disease in lambs as in the foal, but outbreaks do occur in sheep. The bacillus bipolaris sep-ticus, and the bacillus coli communis, seem responsible for the presence of this disease. They gain entrance to the umbilicus (navel) at birth or when the cord is ruptured. In some cases, it is thought the organisms have en-tered the circulatory system before birth. If possible remove your preg-nant ewes to a clean place which has recently been disinfected. The pus may be squeezed out of the umbilicus of the affected lamb and hydrogen per-oxide injected, to be followed by tine-ture of iodine, turpentine or chinosol, or lysol, or any of the coal-tar prepar-ations. Give a single dose of castor oil, but in the treatment of valuable lambs, bacterins may be used. Don't neglect to clean and treat navel of every lamb at birth, and before the lamb is allowed to suck its mother, thoroughly clean her filthy udder. Partial Loss of Power.—We have a pig, six months old, which shows con-

throoughly clean her filthy udder. Partial Loss of Power.—We have a pig, six months old, which shows con-siderable weakness in hind quarters. I notice some white spots on body. His appetite is not very good. S. B. L., Hadley, Mich.—Perhaps I had better enumerate a few of the common caus-es of this ailment, then you may be better able to remove the cause and check this loss of power. Heredity is one cause, keeping the pigs in damp, crowded, filthy pens is another, also feeding an unbalanced ration, such as corn and water. Feed with the corn. clover, alfalfa, tankage, oats, oil meal and roots. Growing pigs require a certain amount of exercise, and their bowels should be kept open, this in-sures sufficient elimination, and don't forget to add minerals, to their ration. Atrophy—Contracted Feet.—I would

sures sufficient elimination, and don't forget to add minerals to their ration. Atrophy—Contracted Feet.—I would like to know the cause of contracted feet in horses, and how it can be avoided.—J. V., Ladysmith, Wis.—The foot of the horse is undoubtedly the most important part of the animal, so far as veterinary surgery is concerned, for the very good reason that it is sub ject to so many injuries and diseases which in part or in whole, render the animal unfit for labor demanded of him. The domestication, coupled with the multiplied uses to which the ani-mal is put, besides the constant repro-duction of hereditary defects and ten-sequence they are especially predis-posed to certain injuries and diseases. Lack of moisture and regular exer-cise, also bad shoeing, neglected dis-eases, or wounds have a tendency to cause atrophy of the soft tissues of the foot, resulting in what is common-ly called contraction. Stand your horse in wet clay for two hours daily, apply lanolin daily, and remember that different cases require different treat-ment. Don't raise colts from cripples, Vertigo.—My twelve-year-old mare occasionally starts and runs; she is

Vertigo.—My twelve-year-old mare occasionally starts and runs; she is unmanageable, after the attack passes off, she is easily frightened, and lately per appetite is not good. 'J. S., Ban nister, Mich.—Give her one quart of raw linseed oil, one dose only; also give her a half-dram of calomel and one ounce of baking soda in feed three times a week for three weeks. Keep her bowels open, exercise her daily. Does her collar fit? It may be too short. Vertigo .- My twelve-year-old mare short.



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MICHIGAN HEREFORD AUCTIONS

100 Head, 70 Lots, 14 Bulls, 56 Cows & Heifers; 30 calves go free with their dams. Moneymakers. Fairfaxes, Disturbers, Woodfords, Anxieties. No better blood.

Ramsey's Sale June 7th, 1923

AT ATHERTON STATION; Pere Marquette Ry. Half-way between Harbor Beach and Port Hope on Huron Shore Road. 6 Bulls, 29 Cows and Heifers; 16 with Calves

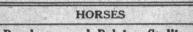
Baker's Sale, June 8th, 1923. AT ST. CLAIR. Sotham Hereford Farm. 6 blocks from

Station of Port Huron and Detroit Electric Ry. 3 blocks from local stop. 7 Bulls, 28 Cows and Heifers; 14 Calves. PRACTICAL CATTLE, kept practically to pay practical people profits under present pressing farm conditions. Learn Michigan's unique Hereford system. It pays. All hereford breeders will ultimate-ly join it. If you'get as good individuals elsewhere you will pay more for them. Enjoy a Michigan Trip. Motor to these sales. For CATALOGS giving Pedigrees and particulars.—Address T. F. B. SOTHAM & SONS (Sales Mgrs Herefords since 1839) st. CLAIR, MICHIGAN.

C. Spring pigs ready. boar. Write for des- & Son. Belding, Mich.
ts left. Place your our boar pig. Pairs R. 4. St. Johns. Mich

is breed. Prices

Hampshires, Spring Pigs. Gilts bred for early fall litters. I. R. BAUSERMAN, Three Rivers, Mich. R, 1. HAMPSHIRE—Few choice Mar. pigs, 2 Fall boars herd headers. Sows and gitts bred for 1 st. Sept farrow. Write Dr. Cribbs, Three Rivers, Mich



Percheron and Belgian Stallions of size and quality. Including first prize winners, If your locality is in need of a good draft stallion, write me for my breeding plan, which will interest you. Fred G. Stevens, Breckenridge, Mich.

DOGS PURE BRED FOX HOUNDS all ages. Pups bred es-and Rabbits. W. E. LECKY. Holmesville, Ohio.

MICHIGAN FARMER Classified Liners bring results. They cost little. Try one.

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Here is the worthy product of a pioneer plant. Seventy-three years of honest dealing backs every Ross promise. Write for complete information. Agents and Dealers: Write for Proposition. E. W. ROSS ENSILAGE CUTTER CO.

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Repport's Auction Sch als Box 77, Decatur, Ind.



GRAIN OUOTATIONS Tuesday, May 22.

Wheat. Detroit.—No. 2 red at \$1.36½; No. 2 mixed \$1.36½; No. 2 white \$1.36½. Chicago.—No. 1 hard \$1.20¾; No. 1 northern \$1.21. Toledo.—Cash \$1.35@1.36.

Corn. Detroit.—Cash No. 2 yellow at 88c; o. 3, 87½c. Chicago.—No. 2 mixed 81¾@82½c;

shipment \$7.35. Rye.

Detroit.—Cash 82c. Chicago.—79c. Toledo.—81½c.

Seeds.

Detroit.—Prime red clover cash at \$11.25; alsike \$10.25; timothy \$3.30. Toledo.—Prime red clover cash at \$11.15; alsike \$10.50; timothy cash at \$3.30.

Barley. Detroit.—Malting 75c; feeding 72c. Chicago.-68c.

Hay Detroit.—No. 1 timothy 17.50@18; standard 16.50@17; light mixed at 16.50@17; No. 2 timothy at 15.50@16.50; No. 1 clover 13@14; rye straw 11.50@12; wheat and oat straw at 11@11.50 per ton in carlots.

Feeds. Bran \$36@36.50; standard middling; \$38@38.50; fine do \$38.50@39; cracked corn at \$39.50@40; coarse cornmeal at \$38; chop \$34 per ton in 100-lb, sacks

WHEAT

WHEAI The wheat crop has not improved as it should with the arrival of moisture and more favorable growing weather. Complaints are coming again from Oklahoma and Texas as well as from Illinois, Indiana and Ohio. The crop is already late and needs warm grow-ing weather. Spring wheat seeding has just been completed which is lat-er than the usual date, indicating that the crop will be below normal unless weather conditions are more favorable the crop will be below normal unless weather conditions are more favorable than usual. The cash demand for wheat has shown but little change. The visible supply in the United States and Canada decreased around 9,000,-000 bushels in the previous week, with prospects that it will continue to shrink rather rapidly until new wheat becomes available.

CORN & OATS

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SEEDS

Although clover seed prices declined to a new low level last week, the mar-ket now shows greater stability and ket now shows greater stability and promises to hold within a compara-tively small range until the size of the new crop is better known. Timothy seed shows greater strength than red clover.

FEEDS

Practically all kinds of by product feeds were dull and declined in pro-ducing and jobbing markets last week. ducing and jobbing markets last week. Bran for shipment any time during the season is quoted at \$19 at Kansas City and slightly higher in the northwest. Cottonseed meal is being offered free-ly and the linseed meal market is under pressure.

HAY

Hay markets remain firm because of ings also are small in spite of fairly large holdings on farms. Widespread rains during the past week have im-proved pastures and prospects for the new hay crop.

POULTRY AND EGGS

Corn. Detroit.—Cash No. 2 yellow at 88c; No. 3, 87½c. Detroit.—Cash No. 2 wellow at 88c; No. 2 yellow 83%c. Detroit.—Cash No. 2 white at 50c; No. 3, 48½c. Chicago.—No. 2 white 44¼@46¼c; No. 3 white 43½@44¾c. Beans. Detroit.—Immediate and prompt shipment \$7.35. Detroit.—Cash No. 2 white at prompt

Chicago.—Eggs, miscellaneous 23½ @24c; dirites 21@21½c, checks 21@ 21½c; extra firsts 30½@31½c; fresh firsts 22@24½c; ordinary firsts 22@

Live poultry, hens 25½c; broilers 48@50c; springers 30c; roosters 13½c; ducks 20c; geese 12c; turkeys

25c per pound. Detroit.—Eggs, fresh candled and graded 25@25%c; storage 27%2@28c. Live poultry broilers 45@52c; heavy hens 28@29c; roosters 15c; geese 14@ 15c; ducks 23@26c.

BUTTER

BUTTER Receipts of butter at the four lead-ing markets increased about 25 per cent over the previous week during the last seven-day period and prices declined. Values have been above the anticipated storing level and with cur-rent arrivals large enough to permit a slight accumulation, the loss in val-ues was logical. The make is gradual-ly increasing. It is not likely that the decline in prices has been completed. Prices on 92-score as follows: Chi-cago 40½e; New York 41½c. In De-troit fresh creamery in tubs sells for 41c per pound.

POTATOES

POTATOES Shipments of new potatoes are run-ning considerably lighter than last year, thus confirming the reports of a smaller crop. The carlot movement from the new crop states was smaller last week than in the preceding week, but old crop states shipped more free-ly. New potatoes advanced 50@75c in eastern markets, while old potatoes were steady to firm at most points. Northern round whites are quoted at \$1@1.05 per 100 pounds in Chicago.

WOOL

WOOL Buying of the new clip of wool con-tinued in the range states last week at steady prices. Some sections re-ported much more activity than others with from 30 per cent of the clip sold in a few states to as high as 80 per cent in others. Prices have ranged from 30 cents for fall wool in Califor-nia to 55½ cents for fine twelve months clips in Texas. Buyers are trying to establish a market around 50 cents in the bright wool states, de-pending upon shrinkage and grade, but this is substantially lower than prices paid for the bulk of western wools.

COMING LIVE STOCK SALES.

Holsteins.

June 14-Wm. F. Shehan, Howell, Mich.

Shorthorns.

May 31.—Simon G. Maichele, Middle-ville, Mich. May 31.—H. W. Darling, Rives Junc-

tion, Mich.

tion, Mich. Angus. June 1—Cloverly Stock Farm, George Hathaway & Son, Ovid, Mich. June 12—Michigan Aberdeen Angus Sale, East Lansing, Mich. Herefords. June 7—Ramsey's Sale, Atherton Sta-tion, P. M. R. R., near Harbor Beach. F. F. B. Sotham & Sons, Sales Mgrs. June 8—Baker's Sale, St. Clair. F. F. B. Sotham & Sons, Sales Mgrs.

Live Stock Market Service Wednesday, May 23.

8.75

8.25 7.50

7.00 5.75 4.50

80.00

steady.

W	rancy ugnt yearnings	9.500
	Handyweight butchers	8.00 (a
ıt	Mixed steers and heifers	7.50@
17	Handy light butchers	7.00 @
	Light butchers	5.75 @
S	Best cows	6.00 a
d	Butcher cows	5.00 a
t	Common cows	4.00@
3.	Canners	3.00 a
	Choice bulls	6.00@
	Bologna bulls	5.50 @
se	Stock bulls	5.00 a
e r.	Feeders	7.00@
n	Stockers	5.00 @
n	Milkers and springers	40.00@

Veal Calves. Receipts, 638. Market is 75c@\$1

higher. Best ·····\$11.50@12.00 Others

.5.00@11.00 Sheep and Lambs.

Light to common 6.50@ 9.50 6.50@ 7.75 Fair to good sheep...... 6.50@ 7.75 Culls and common 1.50@ 3.00

Hogs. Receipts 2,109. Market steady. Mixed hogs\$ 7.70 Pigs 6.75@ 7.00

Pigs

CHICAGO

Hogs. Receipts 25,000. Market is uneven. steady to 10c lower. Tops at \$7.55; bulk 160@225-lb. average \$7.40@7.50; 325-lb butchers \$7.10@7.40; packing sows \$6@6.30; 110@130-lb pigs \$6.25 @6.75 @6.75.

Cattle.

Receipts 12,000. Market is generally steady, and fairly active. Tops matur-ed and yearlings \$10.75; yearlings av-erage 970 lbs \$8.50; bulk of yearlings at \$10.50; numerous lots matured and yearlings at \$10.25@10.70; bulk bulls \$5.40@5.65; bulk vealers and packers at \$9.50@10.50; stockers very scarce.

Sheep and Lambs. Receipts 3,000. Very slow, around 25c lower. Ewes, medium to good; 72-lb lambs \$14; good wethers \$7.

BUFFALO

Cattle.

Receipts five cars. Market steady. Choice to prime shipping steers \$9.50 @10.25; good to choice shipping steers \$8.75@9.25; heavy fat medium quality \$8.50@9; medium to good \$8.50@8.75; light native yearlings, fancy quality \$9.25@9.50; medium to good \$8.50@9; best handy steers \$8.75@9.50; plain at \$7.50@8; handy steers and heifers \$8 @8.25; western heifers \$8@8.50; light Michigan butchering heifers \$8@8.25; best fat cows at \$6.50@7; medium to good \$5.75@6.25; grazing \$3.75@4.25; cutters \$3.75@4; canners good weight \$2.25@2.50; light fat bulls \$6.50@7; best heavy bulls \$5.50@5.75; bologna Market steady Receipts five cars.

DETROIT Cattle. Receipts 402. Market is slow but eady. ancy light yearlings.... 9.50@ 10.00 80@ 10.00 9.50@ 10.00 @50. Calves, tops at \$11.50.

Hogs.

Receipts 40 cars. Market is slow. Yorkers and mediums \$8.25; pigs and lights \$7@7.25; heavies \$7.75@8.

3.50 Sheep and Lambs Receipts four cars. Market steady. Top lambs \$15@15.25; yearlings \$11.50 @12.50; wethers \$8.50@8.75; ewes at \$7@7.50. 6.00 5.50 8.00

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OUALITY BABY CHICKS From free range, standard bred, to lay and weigh stock, Barred Plymouth Rock & S. C. R. I. Rods, 512,00 per one hundred. White & Binf Rocks (of the standard be hundred). White Wyan-dothes 818.00 per hundred. We hay pareel post charges, and guarantee (100%, the delivery. Order from adv.

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BABY CHICKS - PURE BRED toude exceptionally fine free range Anconas and Leghorns life. A Rocks & Reds 14c. White & Wyandottes 15%c. Im to deliveries. Compare the weights. urdy Baby Chick Co,

I N spite of the snow storm, the hens showed a slight increase in production for the week ending May 15. The production for the week was 3,952, making the total to date 79,843.

The Leghorns still hold high rank in production. Their percentage during the past week was 67.3. The Anconas came next with 54.4 per cent; the Barred Rocks came third with 49.8 per cent; Rhode Island Reds, 45.7 per cent, and the Wyandottes, 36.9 per cent.

The Northland Poultry Farm Leghorns led the week's production with fifty-seven eggs. Those belonging to Logis N. Clark, and the pen of the Ontario Agricultural College came second with fifty-six eggs.

Hen No. 2, belonging to E. E. Shaw's pen, finished the week with a perfect 12 score by producing seven eggs. Her total production to date is 155 eggs. The Barred Rock belonging to Dunn, came second with a total production of 152 eggs.

The leading pens in the contest are as follows:

COUNTY CROP REPORTS.

Calhoun County, May 17.—Wheat and rye show some improvement since the recent rains. A few hogs are be-ing sold at \$6@7 per cwt. Farmers ing sold at \$6@7 per cwt. Farmers lost a large percentage of spring pigs. Dealers are buying a few clips of wool at fifty cents per pound. Help on farms is seventy-five per cent short. Farmers are working hard, but with the late spring and no help, a good deal of corn will be planted late.— F. E. S.

Isabella County, May 14.—Wheat and rye poor. Spring work is back-ward. Last year's crops are practi-cally all out of the farmer's hands, ward. Last year's crops are practi-cally all out of the farmer's hands, with the exception of hay and potatoes. Labor is high and scarce. On account of cold weather, pig and lamb crops have suffered. The sugar beet acreage is the largest ever planted in this county. Farm implements are selling about ten per cent high.—W. H. H. Oakland County, May 14.—The heavy fall of snow that visited this dis-trict May 8.9 was of great value to the field crops of this locality. It made up in a large measure the lack of moisture. While the freezing weath-er that immediately followed did a lit-tle damage to early fruit, the detri-ment to farmers is small since fruit growing is a minor factor in this sec-tion.—G. E. St. Clair County, May 12.—Winter wheat is looking good. Spring seed-ing is completed, and the ground seems to be in good condition. Farm-ers are now working on their corn and hean ground A large acreage of sugar

doing the best they can without it.-

Alcona County .-- Work generally has been very backward on account of the been very backward on account of the cold, late spring. Grains and grasses are, therefore, small for this season. Some potatoes are being sold at 45@ 50c per bushel. Hay is being offered at \$6@7 per ton.—A. T. Cheboygan County, May 12.—Winter wheat is looking fair, and the old crop is bringing \$1.10 per bushel. Quite a few potatoes still remain in farmers' bonds to the seeding is marchically

hands. Oats seeding is practically completed. Not as many cows being milked as usual.—E. J. P.

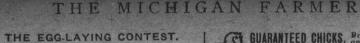






WANTED-Gow testers for Michigan Cow Testing Associations. Man with short course training, dairy experience and fundamental feeding knowledge, de-siring to become Association Testers forthe year, need only apply, Give full particulars, arc. references, training, experience in first letter. Write en confer at your own expense with A. C. BALTZER, Dairy Department Michigan Agricultural College, East Lansing, Michigan.

WANTED-Married man for farm by year, on goot farm, near town. Good house on Main Road. Box 9, Boute 4, Teltonsha, Michigan.



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