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CURRENT COMMENT

DETROIT.

THE MICHIGAN FARMER SAYS: Wholesome enjoyment is one of the best stimulants we can take and it is one of the few that is essential to our well-being.

helping your children to get the right kind?

Plans are as essential in good farming as they are in good house building. Now is a good time to make plans for the coming season.

The opening of Tut's tomb reveals that one virtue of the ancients was thoroughness. They did a good job of burying Emperor Tut.

We all make sacrifices. The successful man has to make them in order to attain his success. The lazy one makes them in order to enjoy his laziness. Which is worth making sacrifices for?

Putting the ened the recent de-Across

his mind agriculture enlarged. has been sick, and is now well along on its way toward health.

Recovery has come about largely cooperation. In production, market- physical view we take of it. ing and consumption, and even in rurfarming order.

its full quota of benefits to the farm- that make us say "words." It is well and great numbers of our breeders are ing fraternity. Its service has scarcely that we should see these things, of not able to spare that many suitable begun. What has and will be accom- course, for we cannot remove them by animals at one time. Michigan is full keting will ultimately measure only ceive ourselves into thinking they are only a small part of their knee-high to what promises to come not there. But the point we should any one line of live stock. These men in the way of community building in not overlook is this, that we should in many instances are combining their agricultural specialties. celery, Livingston Holsteins, Antrim snag or the little everyday difficulties association sales with results that are seed potatoes, Alpena Guernseys, Otta- of the farm. By so doing, our intel- proving very satisfactory. wa baby chicks-these are suggestive lects become dulled, our souls dwarfed of a wonderful possibility in sane ag- and our view of things in general sale in Michigan is very healthy at gressive leadership in every agricul- badly warped. tural community of the state.

crops they grow some particular one or not. The birds in the hedgerows manent and future success of this bus-

fect this product, and then, by reason ders bloom for us, the aroma of the the part of the buying public can not of the high quality and the quantity meadows reaches out to us, and they be maintained except by absolutely it becomes the medium through which are as free as the air we breathe if square business, and a conduct that is the community is brought to the at- we can lift up our heads, open up our clean, straight, open and above retention of the world.

now asking this The 1923 question: What are Sugar the prospects for the Outlook 1923 sugar campaign? Figures just published the department of commerce at

Vashington indicate to us the present tatus of the sugar business.

produced in 1921, and about 800,000 hour. ons more than the annual pre-war roduction.

16,198,000 tons, the next year to 18,- the road every day in the year. 680,000 tons and this past year to in this report. Before the war the against by such a tax. tons.

The American producer of sugar occasional auto user. should take into account this further sumption has been greater in the United States than in all the world taken together. It would seem, therestandpoint of the American producer out. is now resting on a sounder basis than it has been for some time.

BUMPING over the rails the other The day in a day-coach, I Broad was impressed by the beauty of the land-Outlook scape. No particular of present day travel.

work was rushing for the moment and there was time to look up and away and let the impressions sink in. Compared with the things near at hand, how much more wonderful the world UST this morning seemed. To let the vision roam over an old farmer lik- the landscape as far as the eye could see, and drink in the fullness thereoi; Community pression in farming to it was like looking at pictures through a case of illness. In a stereoscope, the whole universe was

to fix our vision on the things that are so much, but it confines the breeder's any of us but what would feel better close at hand, how the impressions of selling activities to a very brief period if we would cut out lotta habits of through the mutual effort of those en- the eye are reflected upon the soul of instead of spreading them throughout appetite and disposishuns what grow gaged in the farming business. The us and upon the mind. Our mental the year; it cleans up his surplus ani- in instead of out. All these ingrowin' old spirit of independence and indif- attitude toward the world and our love mals at one sweep, and brings the disposishuns and such rubbish is hinference to what other farmers are do- for the earth on which we live are money in in a bunch. ing, has given away to the spirit of apt to be in direct proportion to the

growth. It has given strength and about our work, with our attention al- stock interests, like her other agricul-

This does not mean a swing back to the woods across the section, or the rapid development along this line. If the one-crop idea. It does mean that hills on the horizon are ours to enjoy the larmers select from the many whether we own the deeds to the land more than any other toward the per- pit.

eyes, our hearts and our souls and proach. Questionable methods are to comprehend them. No greater satis- be deplored and are sure to act event-MANY farmers are factions are there in life; no, not in ually as a boomerang, coming back to Wall Street, nor in the White House. injure the thing they are supposed to

> T HE auto has brought a great The change in most every-Gasoline body's * attitude re-We Tax garding roads.

In regard to production, these fig- but hate to pay for them. But we canres show that for the year of 1922, not get something for nothing and, to have their reaction. 8,308,000 tons were manufactured. therefore, the manner of paying for This is 120,000 tons more than were them is one of the questions of the

Some urge an additional tax on the auto so the user of the road will help On the other hand, consumption has pay for it. But others say that is not tonnage annually required was 17,500,- only occasionally and is favorable to 000. In 1920 this had increased to trucks, busses, and others who use

Others say that a tax on gasoline 19,035,000 tons. From these figures will eliminate that inequality and will it would appear that consumption is make the user pay in accordance to gaining on production. This is borne the amount of traveling he does. The out by the fact that the hold-over for opponents to this say that users of the present year is the smallest given stationary engines are discriminated But the carry-over was 750,000 tons, for 1920 amount of gasoline used in stationary it was 1,700,000 tons, for 1921 the engines is small compared to that tonnage was 1,203,000 and in 1922 it used in autos. It would seem, thereshrunk to the small total of 476,000 fore, the injustice here would not be nearly as great as in the case of the

life are the most influential. Are you consideration, that the increased con- not include the thousands of tourists economy and effichuncy. (Sounds like who travel the state in the summer, I know a lot, don't it?) But "it ain't whereas the gasoline tax would get them to pay at least a share in the fore, that the sugar business from the upkeep of the roads they help to wear

> We believe the fairest tax is that which makes those pay who get advantage of the improvement made by the use of the tax money. As a gasoline tax seems to fulfill the requirements in this respect, we are in favor of the one which will enable us to enjoy within reason the comforts

THE practice of selling pure-bred Pure Breds live stock at auction at is a very old one. It is

Auction a most excellent way for the preeder of pure-breds to dispose of his annual production. For many people it is much more satisfactory than the mail order method. It may not bring in rubbish what is interferin' with our It came to me how prone we are any more money, and many times not effichuncy and enjoyment. There ain't

so general or so numerous in our state We wander over our little forties, as in the corn belt proper, due, no Don't leave no stubs, 'cause what you al living, this spirit has shown steady or eightles, or quarter-sections, going doubt, to the fact that Michigan live leave will rot into the good part. So health as well as influence to the ways fixed at our feet. We see the tural industries, are very much diversnags that bother the plow, the buck- sified. It takes around forty animals Eut this new spirit has not brought horn in the clover and the thistles to justify the expense of a public sale quences. plished in the way of improved mar- overlooking them and trying to de- of small breeders, men who devote there's lots a folks what is called "you energies to Kalamazoo not tie ourselves down to a weed, a resources and holding combination or

The growth of the pure-bred stock the present time, and we appear to be The beauties of our neighbors' fields, entering upon a period of success and there is any one thing that contributes

for their special attention. They per- sing for us, the flowers along the bor- iness it is confidence. Confidence on help.

MARCH 3, 1923.

"By bidding" will, in a very few years, put an end to successful sales for the man who practices it: auctioneers who run bids on buyers are doomed to extermination as soon as the all want good ones, public gets wise to them, and it will sooner or later. Boom prices are sure

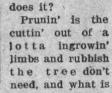
An even run of sales at fair prices, bona fide bidding, and honest stock, will insure a future for public sales in Michigan, that will mean a rapid development of the pure-bred live also increased. Before the war the fair to the one who uses his machine stock industry, a lucrative business for the breeder, and satisfaction to the buying public.

Prunes and Prunin'

S OMEBODY says you should prune when your knife is sharp. The other day I got Sammy to work the grindstone so I got my knife sharp enough to sharpen my pencil. With my pencil sharp, I'm going to engage in the great indoor sport of prunin' on paper.

Now, prunin' is the cuttin' out of waste, and the cuttin' out of waste Furthermore, the auto tax would is one of the essenshull factors in

said 'cause a feller makes a noise like a perfessor he is one, too,



interferin' with the sunshine gettin' in. Prunin' is all right, but it ain't used generally enough. For inst., we could prune our dairy herds and chicken flocks and get rid of a lotta rubbish what is interferin' with out profits and keepin' the sunshine outa farmin'.

There's lotta things we kin prune. but the biggest job a prunin' we got is with ourselves. When we let ourselves grow, we get just like the trees do. We accumulate what you call a lotta derin' us, besides they keep the sun-Pure-bred stock sales have not been shine from gettin' into our souls.

> There's another thing about prunin'. when we cut off limbs, habits and such like we should cut them all off or suffer what you call the conse-

> When you don't prune, you get a scruby lookin' tree and you can't get no good fruit from a scrub. Likewise poor prune" 'cause they ain't done a job of pruning' to themselves. Now, if you wanta get a higher social standin' in the prune family, you have gotta do a good job of self-prunin', and that kin be done by prunin' when your knife is sharp and keepin' your knife sharp all the time.

> Now, in what you call conclushun, this preachment didn't come from the pulpit, but from what you call a prune



Some Profitable Nuts for the North

A Neglected Possibility for Every Michigan Farm

HE early history of the horticulture of this country is replete with the records of those who sought to duplicate here the plantings and the products of Europe. Attempts It blights and is practically a total half million dollars a year in this state to grow the European or wine grape, all unsuccessful, were numbered by No one seems to have thought that That it should occur to the average the thousands. It was little dreamed our native hazels offer a good starting consumer that one of our native nuts that in the native grape lay the possibility of developing varieties superior to most. of those grown in the Old

World. The English gooseberry, a prized fruit in northern Europe, was tried repeatedly, until it was realized that mildew made its culture in America entirely impracticable. Little was it suspected that eventually the native gooseberry would yield varieties of



raspberry were in-

cousins.

By V. R. Gardner, Professor of Horticulture, M. A. C.

failure, except on the Pacific Coast. alone. No one seems to have thought that point for the breeding of improved va-



The Grand Rapids Seedling.

value. European va- rieties that will equal in quality and rieties of the red size those which we now import.

Attempts to grow the English or troduced with but in- Persian walnut in the eastern United different success. It States have met with' rather general no more inferior to the best of the took a hundred failure. That we prize it, that we years to convince us would grow it if we could, is evidenc- grape is to the Tokay or the Malaga. that our own wild ed by the fact that each year we con- Indeed, the confectionery trade cheerraspberries are wor- sume 60,000,000 to 10,000,000 pounds. fully pays more for seedling black walthy competitors of their Old World Michigan's average annual consump- nut meats than for the meat of named The European cob nut or filbert was The price which the consumer pays cord or a Niagara can be developed introduced at an early date and it has for these nuts is probably not far from from the native wild grape, can't some been reintroduced hundreds of times. thirty cents per pound, a total of a thing equally superior be developed

That it should occur to the average might be substituted for the imported article is not to be expected. The consumer gives little thought to where his food products originate. It is, however, a little surprising that the farmhis farm has not thought about the latent possibilities that these trees may contain. If he has thought of them he has kept his thoughts to himself. It is still more surprising that the professional horticulturist and plant breeder have almost totally ignored the native nut crops.

Certainly the native black walnut is English walnuts than the average wild tion is upwards of 2,000,000 pounds. English walnut varieties. If a Con-

from the native black walnut or hick orynut?

Fortunately, this question is already answered, though few people know the answer. Tell the man on the street, the farmer, the fruit grower, or even two-thirds of the professional horticulturists, that there are improved black walnut varieties better than a good share of the named English walnuts and the statement will be met by a vacant stare, a look of incredulity. They haven't heard of such a er who has nut trees scattered over thing. Yet such varieties are in existence, are being propagated by certain nursery firms and both trees and cion

(Continued on page 300%.



Stabler, a Promising Black Walnut.

Efficient Farming In Denmark Necessity Has Made the Danish Farmers the Best in the World HE Danish farmer is being in-By Chris L. Christensen

Of the Federal Bureau of Economics

vestigated, and rightly so, for he has accomplished wonders dur-

ing the last few decades. When I was

ing the agriculture of the country and per cent of the bacon and almost half of the world, as a result of perfecting the cooperative marketing methods of of the eggs which they import. Their modern transportation. America comthe farmers I met economists from all shipments to that country are greater menced to produce grains on a large



Some Milking Shorthorns Found on the West Coast of Jutland.

farmers of the United States as much hardly miss it. helpful information regarding Danish will give to their countrymen.

fined my studies all these months to ucts, and to a marked extent the disan area no bigger than one-fifth of the tribution. Forty years is not a very state of Nebraska, you would not think great span of time, yet during that I had traveled very far, or that I had period the Danes have increased their seen very much. Although Denmark butter exports seven times, their bais no larger than that it has three con twelve times, and their eggs eightmillion people, and they are as indus- een times. During the same four dectrious and far-sighted when it comes ades they have developed a surplus of to acting together, as any similar num- meats, horses and seeds. The horses ber of people on the globe.

They are producers who do not neglect the marketing end of their business. For instance, forty per cent of the butter imported by the English people comes from Denmark. They witnessed the opening up of vast fer-

I am sure they will be as full of praise country, and yet their farming area for the farmers of this little country could be tucked away in any one of as I am, and I hope I may give to the the thirty of our states and we would

The Danes practice what I call ramethods as these foreign economists tional farming. They have put agriculture on a business basis. They con-If I should tell you that I had con- trol production, quality of their prodand meats find a ready outlet in southern Europe and the seeds go to America and elsewhere.

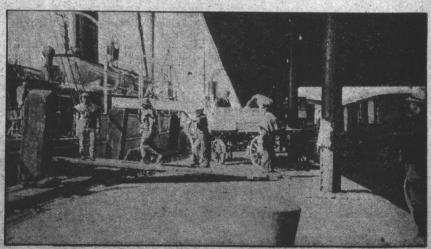
Danish Cooperation a Necessity. The latter half of the last century,

over the world doing the same thing, than those of any other European scale-this appearance of cheap grains on the European markets-shifted the grain production from western and northern Europe to the new parts of the world. Cheap grains from the fertile regions of the new world, forced the Danish farmer on his light soils to abandon his old system of grain production, to animal products. The Danes many other individual farmers who cast their lot with the dairy cow and may we judge from their present development, it was a wise choice. In the eighties it became apparent that they must standardize dairy product, merchants did not have time to samand produce it in a quantity sufficient to make an impression on the foreign markets. In order to do this they had to recast their farm practices and produce a grade and quality of dairy products such as the markets demanded.

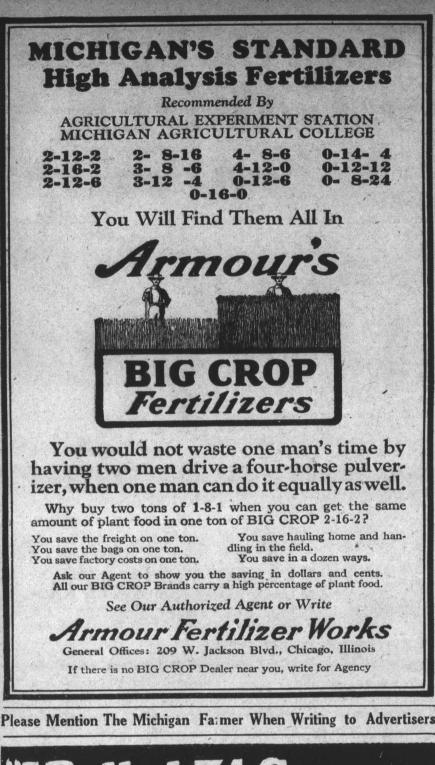
> mark are small. Eighty per cent of this market demand. The larger unit the Danish farm are under seventy

acres, while half do not contain more than thirty acres. Practically all farms are worked according to the same system, as a rule they carry a stock of in Denmark a few months ago study- also send to the English market fifty tile agricultural areas in the new parts cows, pigs and chickens. Now, the marketing problem confronting the average farmer in the eighties is well illustrated by the experience of a small farmer with six cows, who sent his butter to a large butter exposition which was held in London. He produced a first-class article and won the first prize. However, this recognition at the world butter market did not give him a higher price for his small weekly butter production. But, like sent only small amounts, he did not receive the top price regardless of the fact that he was selling a premium quality butter. The English butter ple and inspect a large number of small batches of butter. They not only first looked for shipments of butter which arrived in large quantities of one grade, but they paid higher prices for much larger shipments.

> The large estate farms, of course, To an American the farms in Den- were much better equipped to meet (Continued on page 315).



Danish Eggs Are Packed in Standard Cases for Shipment to England."





Read These Letters: My Kirstin One-Man Stump Puller is certainly a dandy and does more than you claim. Since receiving it, have given it every test and my Kirstin satisfies me better than I really expected. I pulled 74 stumps in oneday, without help, at a cost of less than 4 cents each. My stumps run up to two feet in diameter. (Signed) J. F. Sherrill, Shutls Mills, N. C. **Read These Letters:**

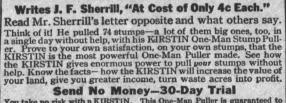
Our Kirstin One-Man Puller is a wonder. It does our work for one-third the former cost. George McKinley, Supt. of Parks, Flint, Mich.

Drum Type One-Man Pull-

One Man, Alone, Pulls Biggest Stumps

Clutch Type One-Man Puller— lighter weight; easier to move; more powerful.

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You take no risk with a KIRSTIN. This One-Man Fuller is guarantee-make good all claims. Easy to operate; easy to move. Four speeds. At matic take-up; extra long cable enables you to pull many stumps with moving. Try it for 30 days in your own stump field and be convinced.

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Stump Puller ry to user at low factory pi representation in the second s n Clutch and Dru Lowest Prices Ever Made — Cash or Easy Terms As low as \$39.50 buys a One-Man KIRSTIN Stump Puller during sale on new 1923 models. Weigh as little as 100 lbs. Develops up to 50 tons of pull from 100 of push. Made of best tool and carbon steel. pendable; durable; made to do the hardest work; ling stumps, wrecking buildings, etc. Backed by \$10,000 Bond—3-Year Guarantee A KIRSTIN quickly pays for itself in iner I values. Many owners make good itself in iner

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Washington Letter

By Senator Capper

tory, despite the high rates. Business can pass these costs on. The farmer couldn't. When freight charges alonetake ten to twenty per cent from Trade are urged to "end evil pracgross prices which scarcely meet the tices" and clean house, and big manipcost of the farm products, no sort of ulators of the market are warned to juggling with figures can soften the discontinue unfair methods, by John blow to him. The farmer's return J. Stream, the board's new president,

put.

The number of cars loaded during per-Tincher law must be obeyed in 1922 was the greatest in railroad his- letter and spirit if upheld by the sutory. But not a dollar of excess earn- preme court. He urged farmers be ings netted by probably sixty big rail- admitted to membership on equal road systems under the rate clause of terms. the Cummins-Esch law, has been paid to the government. This law requires out amounted to a frank acknowledgethat half of the excess must be used ment of the abuses charged against for the benefit of the weaker roads. Section 15-a of this law puts the entire that the advocates of the Capper-Tinagricultural prosperity-making area of this country under the blight of excessive freight rates to overpay the highly prosperous railway systems, that the less important, poorly conducted or inefficiently managed roads may be sustained in their inefficiency. February 1, I again addressed the senate on the necessity of repealing the will reduce their large armies and so-called guarantee and rate-making navies. To cancel it is to compet the clause of this law, in connection with the joint resolution adopted by the two houses of the Kansas legislature petitioning congress to enact the Capper repeal bill. The sooher we repeal the so-called guarantee clause of the Cummins-Esch act and also give state railroad commissions more coordinate power to adjust rates fairly, the better for the roads and the country.

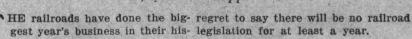
Forty Roads Charging Too Much.

It costs a farmer twice as much to further reduce its armaments. ship a carload of apples as it does a can have no assured good times in the coal operator to ship a carload of coal United States until Europe recovers the same distance, and the farmer and its markets are restored. The only gets forty-five and one-half per falling off in our exports of foodstuffs cent of the price, the remainder, or alone, last year, was more than \$277,fifty-four and one-half per cent, goes 000,000, or more than forty per cent. to the railroads for hauling the apples. Our farmers need peace in Europe al-

demanding lower freight rates for farmers, and the repeal of the ratemaking clause of the transportation But the nations of Europe might as act by which the high rates are kept well understand right now: up, I referred to the evident prosperity of the great railroad systems and sideration will cancel foreign war was promptly contradicted by a num- debts or any of them; that these bilber of eastern publications.

tion in the senate asking the Inter- them, no other alternative existing. state Commerce Commission to report That the United States will not pay the number of Class I railroads which nor finance any European war debt or were earning more than a fair return indemnity. and were not returning any of the surplus to the government required by European political league or alliance. the law. The commission reports there are forty, and possibly more, of these more troops to Europe. roads.

invested and nation. Yet for more than two and one-half years we have let the tail wag the dog, in this case; although it is quite necessary for a tail to have a dog, also to treat the dog right. I



Board of Trade Must Clean Up.

Members of the Chicago Board of comes from what he gets for his out- in a remarkably candid inaugural address in which he declared the Cap-

> President Stream's address throughthe grain gamblers and an admission cher law were right.-

We Can Help Europe Make Peace.

With Europe still wasting and destroying-that eleven billions of war debt it owes us is the greatest peacepersuader we have. The powers are ample able to pay this debt if they American people to tax themselves for Europe's new militarism. So far as I can see, Europe needs no such encouragement to continue fighting. At the present moment one European power is buying privately millions of dollars worth of arms and ammunition in the United States.

The best thing we can do for Europe is to call an economic conference of nations that will make it possible for Europe to go to work and We Recently in the senate, in a speech most as much as the Europeans.

Europe Must Quit Fighting.

That the United States on no conlions were borrowed from the Ameri-Subsequently, I introduced a resolu- can people and must be returned to

That the United States will join no That the United States will send no

That the United States will go far Railroads rank second to agricut-ture, measured by the amount of monimportance to the people across the sea if they will abjure militarism and go to work.

WASHINGTON, D. C.



Central West's Seed Farm Good Market Awaits the Michigan Grower of Qualitified Seeds By Our Field Editor

the opportunities that are their's writes on your slip, "Rejected." along the line of high-class seed production? Let us talk it over. There you who take pride in your work to are four distinct factors that are es- enter your fields along with those of sential to the highest success in the your more progressive neighbors in seed industry. They are each depend- the greatest farm seed industry in the ent upon the other three and we have central west. One great cooperative them all here in Michigan in a thriv- seed farm covering the state of Michi ing condition. The first of these essen- gan, that is what it amounts to. But tials is

Superior Seed.

Without a system of developing new the fourth dimension, the varieties of seeds that are superior to the old, the industry would be foiled at the beginning. In our own Profes- Farm Bureau has made a most phe-

O Michigan farmers fully realize disease and mixtures and carelessness

However, the way is wide open for you say, "How am I to go about it to sell the goods?" And here comes in

Facilities for Marketing. The seed department of the State



Ear Row Selection on M. A. C. Test Plots.

sor Spragg and his able staff of assist- nomenal growth ever since its incepants we have, at the state experiment tion. It has one of the most modern station, an outstanding group of plant seed-cleaning plants in existence. Its breeders. They are constantly select- practice of guaranteeing the purity ing, developing and propagating new and germination of its seeds has won varieties of field seeds that are being for it the confidence of seed buyers tested out under field conditions by the country over, and the demand for members of the Michigan Crop Im- the quality seeds it puts on the marprovement Association. New strains ket threatens to exceed the supply. of the different farm seeds are thus Under the capable management of J. being discovered that are adaptable to W. Nicolson and his twenty loyal asfarm conditions and greatly superior sistants, the development of the busito the old standard stocks. Secondly: ness from month to month is remark-**Climatic Conditions.**

have given the subject consideration gan, both direct and through local cothat Michigan is endowed with a soil operative organizations; they ship and climate that makes her the nat- large quantities of seed into Indiana; ural producer of seeds of exceptional Ohio takes six carloads, thirteen hunhardiness and strong vitality. Farther dred bags on the first order; New comment here is uncalled for, except York is the heaviest buyer; Pennsylto state the fact that her seeds invariably prove their superiority when tomers. And so the good work grows shipped into other states. Given the bigger and bigger. seed and the climate, the third essential must be

The Grower.

Success in a big way requires that you North," and the outlet for her qualiproduce the seed. A lot of us are tied seed is giving the grower thereof doing it already and reaping the bene- the best market in the United States fits, but there is room for many more. today. Understand, producing high-class seeds requires high-class farming.

able. They buy and supply seed from It is well understood by those who and to thousands of farmers in Michivania and Virginia are also good cus-

Because she knows the origin of her seeds and guarantees their quality, Michigan is taking her rightful place That is you, the farmer of Michigan. as "The Great Seed House of the

Any day now, when it's not too cold Shiftless methods don't go. The in- on the hands, will be all right to prune spector who comes to look over your back those grape vines. Cut all of last growing crops and finds weeds and year's canes back to two or three



Fyrox gets Top Prices

Pyrox will give you as sure as little apples are green.

5---293

For twenty-four years Pyrox has been killing bugs

and controlling blights. It also invigorates the plants so that they grow and produce over a longer period. For this reason alone it will pay you to use Pyrox. You get this triple benefit at one timeand-labor cost for spraying.

Send for it to-day

You buy Pyrox as a smooth, firm paste-a chemical blend of a powerful fungicide and a deadly poison. Poison is even stronger than U.S. standard requirements. Extra high copper content. Pyrox mixes easily in water; sprays in foglike mist through finest nozzles; sticks like paint on the foliage. Fine for HOME GARDENS, small fruits, roses, etc. If not at your dealer's, write to our nearest office.

> We also make Arsenate of Lead, Calcium Arsenate, Bodo, Paradichlorobenzene, and Paris Green.

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Please Mention The Michigan Farmer When Writing to Advertisers



100,000 Miles Without Stopping for Oil An inventor who could develop an automobile, a railroad car or any An inventor who could develop an automotic, a randou car of all 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.

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 encircle the world in 90 days, or would go four times around in a year. It would encircle the world in 90 days, or would go four times around in a year. It would and an average 275 miles per day or about 30 miles per hour for 9 hours each day. An automobile which keeps up that pace day after day needs a thorough oiling at least once a week. Isn't it marvelous, then, that a windmill has been made which will go 50 times along as the best automobile with one oiling? The **Auto-oiled Aermotor** after 8 full years of service in every 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 model around the time and the time and the farm of the server and the server and the time and the server and and the server For full infor-mation write AERMOTOR CO. Chicago Ballas Bes Moines Oakland







ADDITIONAL COLLECTION ON TAXES.

day he comes to collect? What is the limit of time to pay taxes, without paying interest or penalty?—O. H. Of two cows and a sman nock of pon-try the products might be entirely con-sumed by the tenant's family. Agreement should be made so that

without penalty. After that additional portion of farm products that would collection fees are allowed of four per enter into the family's living. cent until the first of March, and con- renter is supposed to furnish all the tinually increasing, depending on the help necessary to carry on the farm time of payment.-Rood.

LIABILITY OF SCHOOL TEACHER. horse feed, thus being divided same

Does a school teacher have a right cover all cash sales of crops, stock, to whip a girl fourteen years old and and stock products, as well as stock leave marks on her that show for five increase. Thus, returns from bull serdays ?--- Subscriber.

It is the duty of the school teacher to conduct the school under the direction of the officers of the district, maintain order, and enforce the observation of the discipline of the school. In the performance of this duty, in the stubble, good ground, which I want to absence of forbidding statute, and I sow to buckwheat this season. I would find none, the teacher may resort to like to know how it would do to sow corporal punishment for that purpose, sweet clover with it. Which would using such measures as are necessing grow the fastest? We sow buckwheat using such measures as are neces-sary. It has been held that in per-forming this duty, the teacher is not get buckwheat or would the clover beat it out? Would it make good fodin punishing the pupil, and that to create a liability by the teacher it must be shown that he acted wantonly or nurse crop because it is a quick-growmaliciously .- Rood.

JAPANESE KUDZU.

viney, leguminous crop that is apparted. If you get a good stand of buckently doing quite well in the southern wheat, there will be no danger of the states, especially Florida. It has been clover getting too large to interfere tried at the Michigan Experiment Sta- with the growth of the buckwheat. tion at which place the plants producquite woody and were not very leafy. thickly. We believe that sweet clover, Mammoth clover, and soy-beans will be far all kinds of stock if cut before it gets more profitable for soil improvement under Michigan conditions.-C. R. M. it is not too coarse.

LIABILITY OF MARRIED WOMAN ON NOTE.

B has to foreclose a mortgage on a farm owned by A and wife. They have a joint deed, and gave the mortgage jointly and also the note., When the farm is sold will the court grant B a decree of deficiency, if there is any, against both A and wife, or just

property. Therefore unless the wom- feed for milch cows?-T. C. an's property was in some way involved in the obligation for which the note protein. Cows would have to eat enorwas given her signature thereon is of mous quantities of it to enable them no effect, and no judgment can be to get sufficient protein to produce a rendered against her. The husband is normal flow of milk. nevertheless liable for the deficiency. -Rood.

SHARE RENTAL

it should be rented ?-H. E. H.

The general practice followed where the farm is rented out on the one- enough, which would be wasted. third basis is that the landlord furlabor, for which he gets one-third of tion as income.

If the dairy and poultry enterprises milk, increase the grain in proportion.

figure in as a source of income the re turns should be divided the same as above. Of course, if there is only one What is the right of the tax collector or two cows and a small flock of poul-

Taxes may be paid until January 10 the tenant would receive at least a The operations. Gasoline for the tractors would come under the same class as as income. The fairm returns should increase. Thus, returns from bull service would bè classed as income.

BUCKWHEAT AS NURSE CROP FOR SWEET CORN.

have three or four acres of corn Which would der?-C. S.

Buckwheat is not considered a good ing plant that, if it does well, shades the ground almost too much for a clover plant to do well.

On the other hand, it shades at the Is Japanese Kudju adapted to Mich. right time of the year-during the hot igan and is it a paying crop to grow dry weather—and if the clover plants on worn, sandy soils?—A. T. live through they will make rapid prolive through they will make rapid pro-Japanese Kudzu is a rank-growing gress after the buckwheat is harvest-

Many have had good success seed ed viney branches from twelve to four- ing clover with buckwheat. It is worth teen feet long. These branches were trying. Don't seed the buckwheat too

too ripe and if sown thick enough so

NOT SUFFICIENT PROTEIN.

I would like a little information in regard to feeding milch cows. I have all dry feed, such as hay, corn fodder, carrots and ground corncob, etc. Have six milch cows. In the morning I give farm is sold will the court grant B a decree of deficiency, if there is any, against both A and wife, or just against A?—Subscriber. Married women have eapacity to contract only in reference to their meal. What do you think of this as a

This ration is woefully deficient in

Large quantities of carbohydrates would actually be wasted because the pairs for same. 3703 East 93rd St. cow must use the food ingredientsprotein and carbohydrates in about the proportion of 1:6 if she produces As I am about to rent a large farm on a third, I wonder if you could give me some information in regard to how fore, a cow must eat more carbohydrates than she needs to get protein

It would be better to mix wheat nishes everything, that is, land, equip- bran with the corn-and-cob meal, equal ment and stock, and the tenant the parts, and feed cottonseed meal also. Give each cow two pounds of cottonthe income. Such expenses as seed, seed meal and also enough of the bran threshing bill, feed purchased, fertil; and meal mixture to make one pound izer, etc., are divided in same proport of grain for every four pounds. of milk. If the cows increase in flow of



MARCH 3, 1923.

You can penetrate to greater depth, dig up the lower stratum of soil and mix it with top soil; make the seed bed that results in bigger crops - bigger profit-by using the

SYRACUSE SPRING TOOTH HARROW

High carbon, spring steel teeth are clipped to tooth bars -no bolt holes to weaken them. Teeth are evenly spaced and easily adjusted to take up wear or to give desired pene-tration. Non-clogging-frame constructed so that trash readily works out. Reversible lev--convenient for use with either horses or tractor. Riding attachment extra.

FREE BOOK. Write today for booklet describing this harrow. Tell us what other implements you ure interested in and we will also send you "Bookkeeping on the Farm," just the book for your rec-ords. Address John Deere, Moline, Ill., and ask for Package HX-6 22



duction per acre. Hastens maturity of the crop. One trip to the

row, either astride or through the middles. Widely used in this and foreign countries for over seven years. The best cultivator for potatoes, corn, tobacco, beans, beets, tomatoes and truck crops. Equally desirable for culti-



ENGLISH SPARROW DEPREDA-TIONS.

REALIZE fully that in these days there are many things that are considered of more importance than the despised English sparrow, but with our efforts to conserve all the food possible we have got to take the sparrow into consideration. He is an alien enemy, and he is getting more destructive every year, and increasing in numbers at a rapid rate. There will have to be concerted efforts on the part of the farmers to destroy the pest or their grain fields will be ruined.

It was about ten years ago when they began working in the wheat fields as soon as the grain began to ripen, and this year, for the first time I have noticed them in the oats. With all of our small grains at their mercy, and their numbers increasing, what are we going to do? In a few years they will not only destroy our ripe grains, but they will begin on it sooner, and by the time it is ripe enough to cut there will not be much of it left. The pests not only take toll from the fields, but from any place where they can gain an entrance.

The granary on this place, which my brother bought in the spring, is rather old, and the door has sagged, so there is a crack above that the sparrows can slip through. In May they made the discovery, and also that there was a bin of oats inside, and they were soon taking full advantage of the fact. Not only our "own" sparrows, but those from a neighbor's place, twenty-five or thirty rods away, would come and eat, and fly back to the other place. Probably they were taking a quart or two of oats a day. The door was made tight, and the hungry birds, with more intelligence than I had previously given them credit for, hunted for other openings to the coveted grain. There were no ridge boards on the roof, and the shingles did not meet perfectly, and the sparrows were soon going down through the ridge. Boards were put on, and they again found their way barred, but not for long. There had been a window on one side, and a shed having been built on that side, the opening was loosely boarded up, so loosely, in fact, that the sparrows soon found a place to enter, and took full advantage of it. Then that place, and every other place they could possibly gain an enbut the feed in the barn must be closely covered, and when the hens are fed, the sparrows are on hand to get their share.

Did any of the Michigan Farmer readers ever know of sparrows roost ing in trees? - I never did until last summer. They were roosting in two maples near the house, hundreds, or thousands of them, every night. The most of them in one tree. The tree is forty or fifty feet tall. How can we get them, wholesale? Can anyone suggest a way? If one should burn sulphur or brimstone, on a dark, still night, in several places under the tree would the fumes kill the birds?-Apollos Long.

THREE COW-TESTING ASSOCIA-TIONS.

KENT county now leads the state in the number of cow-testing associations. Just recently its county agent, K. K. Vining, organized its third association.

As part of his 1923 program, Mr. Vining is going to specialize in cowtesting association work and hopes to have about six associations established before the year is over. Much of this work is possible because of the enthusiasm worked up among farmers during the dairy and alfalfa campaign.



It stands to reason that fifty years' experience in rubber goods manufacture would produce something very unusual in the way of footwear.

And so it has-in "Hi-Press" and "Straight-Line." Millions of wearers are daily proving that fact.

Here your footwear dollars do double duty. You enjoy a service far beyond the ordinary run of rubber footwear. Sixty-five thousand dealers are ready to serve you. This time demand "Hi-Press" Boots and Gaiters-with the Red Line 'round the top; and "Straight-Line" Rubbers, for the whole family.

THE B. F. GOODRICH RUBBER COMPANY Akron, Ohio



Short

Brown

Goodrich trance, was closed. They hung around for a few days, and then gave it up, but the feed in the barn must be close Rubber Footwear

"BEST IN THE LONG RUN"



This perfect salt in a new, wonderful form dissolves in-stantly and completely like a snow flake. It gives won-derful flavor, absolutely uniform, without ever a trace of grit. Ask for it by name.

COLONIAL SALT CO. Akron, Ohio ATLANTA CHICAGO BUFFALO

010 SPECIAL FARMERS For Stock Salt, Use Colonial Block Salt-Smooth-Hard-Lasting-Won't Chip Made from Evaporated Salt



Combination Sector and Chillyator Complete outfit in one tool. Plants any garden seeds in rows or hills any distance apart-100% accurate. Covers seeds uni-formly at proper depth. Ends back breaking bending in planting. It hoes, cultivates, plows, rakes-any garden job you wish. En-ables you to double size of your garden with-out increasing your work. If you don't know your Home Tewn Hudson Dealer write for his name and free illustrated catalog. HUDSON MFG. CO.

Dept. 3132 Minnespelle, Minn. Cuttvator Rake-handiest little tool madel Does easier, fast-er, better work. Adjusts 7 to 18 inches wide. Re-move center tooth to gtraddle row. **AGAINA**

WORTHLESS HIRED MAN TEACH-ES BOSS A LESSON.

WORTHLESS hired man taught me, strange to say, the most striking lesson about fertilizers that I ever had.

I caught this fellow running a potato planter without any potatoes in it. I sent him back over the row. That gave this row a double dose of fertilizer. I figure it was fertilized at the rate of about 1,500 pounds per acre.

You ought to have seen that row when we dug; it brought at least a third more potatoes. That convinced me that 1,500 pounds isn't too much fertilizer on an acre of market garden crops: in fact, I have since used as much as a ton of fertilizer to the acre on such crops, and have found that it paid .--- N. M. Thomiley.

SPUDS AWAIT CARS.

THE United States Bureau of Agricultural Economy says that there are 160,000 carloads of potatoes which cannot be shipped because of the lack of cars. This is the largest surplus of potatoes in the growers' hands in the last nine years.

The ability to sell these potatoes will depend upon the absorptive power of the market, but it is estimated that about 80.000 cars will be sold while other half will be kept on the farms for seed purposes.

Another Washington report shows that about 50,000,000 bushels, or approximately eleven per cent of last year's potato crop were wasted, consumed on farms or left undug.

FREMONT CREAMERY PROSPERS.

T the annual meeting of the Fre-A mont Creamery Company, the old board of directors, consisting of Dirk Kolk, James Murphy, Henry Kolk, E. J. Garlough, John Poppa, Henry Rozema, and Joseph Rozema, was re-elected. The financial report of the year 1922 showed the business to be in a flourishing condition. During the year \$108,000 worth of butter was made and sold, while \$96,000 was made and distributed among the patrons. The business of the year showed a net profit of \$2,842.72.

An innovation for farmers' organizations in this vicinity was staged by voting to hold a banquet at the next annual meeting at the expense of the corporation.

Claire Taylor, county agricultural agent, spoke a few minutes on the work of the Newaygo County Farm Bureau which is concentrating its efforts this year on the dairy business. He reported another cow-testing association in the process of formation.

After the business meeting, an address was given by H. E. Dennison, dairy extension specialist of the Michigan Agricultural College. He gave proper management and volume of business as the main factors for the success of the creamery business and congratulated the Fremont Creamery for possessing both these factors .--- H. L. Spooner.

TO TEST SOILS.

Soils Department of the Michigan NURSERIES, Baroda, Michigan Agricultural College, most of the soils in the state will be tested for acidity during the next few years. Prof. C. H. Spurway, of the department, has de-veloped a process of testing by which free. Mason Nuterry Company. Pledmont, Missouri veloped a process of testing by which a few drops of a special solution on a small quantity of soil placed on a piece of waxed paper will reveal effectively the acidity of the soil and its lime requirement. As the proper amount of lime in the soil is the keynote of profitable farming this simplified test will have far-reaching effect.

The sale .

GROW THE NEW,

MAMMOT





296 - 8

Michigan Farm Bureau Brands include the Best varieties of alfalfa, clover, seed grains and other field and grass seeds. Their Vitality, Description and Purity is guaranteed to be as represented to the full amount of the Purchase Price.

Certified Seed Oats and Barley

These varieties are certified after field and bin inspection on the basis of freedom from mixtures, foul seeds and diseases Through years of constant selection and elimination of weaker

strains, they are the highest yielding in the state.

Even those who purchased seed of these varieties two or more years ago can afford to purchase new seed stock at the reasonable prices quoted this year.

If you are growing "Just Oats" or "Barley" you cannot afford to miss this opportunity to make money on the increased yields these varieties will return.

Wolverine, Worthy Oats

6 to 25 bushel lots, \$1.00 per bushel, f. o. b. Lansing, Michigan.

Wisconsin Pedigree and Black Barbless Barley 6 to 25 bushel lots, \$1.40 per bushel, f. o. b. Lansing, Michigan 21/2 bu. jute sacks extra 16c each; 16 oz. grain bags 47c each. Seed Corn, Beans, Soy Beans, etc., should also be ordered now. If your Local Co-Op. cannot supply you with these high yielding, disease free, certified varieties,

Write at once to





The regular price of this varden is 40.10. Due special reduced price only 52.85. Order direct from this ad and save time. Enclose check, draft, or money order indigarden will be delivered to you at insting fime.



R. M. KELLOGG CO., Box 3606, Three Rivers, Mich.

Another big feature of our book is the six (6) Special Straw-berry Gardens we are offering at bargain prices—a garden to fit every need and every pocket book. One of them is shown here. You can order direct from this ad if you wish and save time.

Send for the Book But whether you order this garden or not-don't fail to write for our FREE BOOK. Stop paying high prices for Strawberries. Get this book and see how easy it is to grow your big red berries in your own garden or back yard.

MARCH 3, 1923.

MOST MICHIGAN GRAPES SOLD COOPERATIVELY.

MORE than \$2,000,000 for 2,600 cars of grapes, averaging twelve tons to a car, is the record for the 1922 season of the cooperative growers' associations of Michigan. Records show that the cars were shipped into 231 central markets in thirty-four states, going east to New England, west to Arizona and Utah, and south to Florida. It is estimated that the cooperatives control about seventy per cent of the state.

DANGER FROM GASOLINE.

THE writer happened recently upon an advertisement which began something after this fashion: "If a quart of gasoline will carry your Ford a distance of four miles how far will one gallon of it carry the roof of your house?" Certainly, here is food for reflection! Plenty of people there are who never stop to figure it out until after the explosion carries roof and walls and everything else before it. The danger of using gasoline for cleaning or other purposes, lies not so much in its being inflammable as in the fact that its vapor, when mixed with air in the proper proportions, is highly explosive. A slight draft will carry the vapor oftentimes to an open flame, and ignition, with explosive effect, will occur, regardless of the fact that one considered oneself sufficiently removed from such to be in no danger.

We recall a disastrous fire which occurred in a country town and which was due to the fact that two men sought to empty a barrel of gasoline into an underground tank. They were working in the open air unmindful of the fact that the wind was blowing directly from them toward the building where double doors stood ajar. Gasoline vapor was carried into the building and found its way to an open fire at the far end. The explosion which followed blew the whole side of the building out, let the roof fall in and more speedily than it takes to tell it the entire structure was a mass of seething flames. This is the time of year when gasoline for cleaning purposes is used oftentimes within doors because of inclement conditions outside. It should be remembered that the cooking or heating stove, the kerrosene lamp or anything else of this kind offers the spark which will set off the explosion should the gasoline vapor mix with the air in just the right proportions. Be careful,-Orin Crooker.

THE BLUEBERRY BUSINESS.

AFTER sixteen years of experimentation, the United States Department of Agriculture has established the growing of blueberries as a commercial industry. The experimental work has been carried on at Whitesbog, New Jersey, where over twenty thousand hybreds have been tested About a half-dozen of the best of these have been placed in the hands of several nurserymen, but only one, the Pioneer, is as yet commercially available.

Unfortunately several unscrupulous nurseries have taken advantage of this fact by advertising blueberries in a misleading way. One company uses an illustration from a government bulletin and leads the reader to believe that the variety they are handling is similar to that shown in the illustration. But the facts are that all they are selling is the ordinary blueberry.

The chief requirements for blueberry culture is an acid soil, as the blueberry will not thrive in neutral or alkaline soil conditions.

THE MICHIGAN FARMER

Farmers! Greeting! Let's Know Each Other Better

NEARLY three-quarters of a century ago the *Dickinson Seed* business was started. The enterprise, skill and integrity of its founders laid the solid foundation. The Institution has slowly, but surely, taken form. Every brick in the structure spells hard work, service, skill.

Our occupation is the securing, from far and near, of the staple field seeds needed by farmers. Once

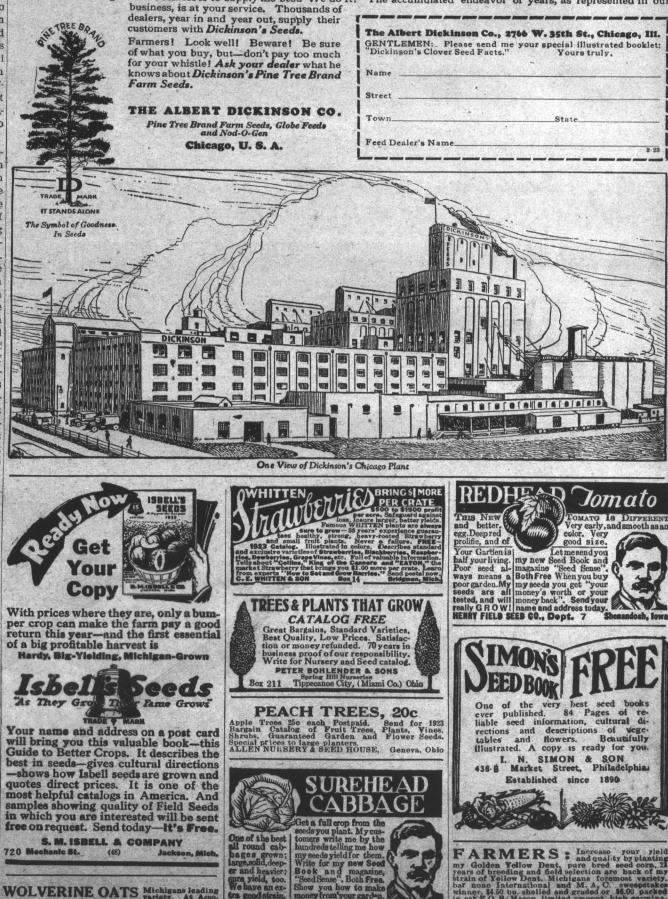
secured, their purification and refining is our most important work. Nature supplies the seeds as rough diamonds—we finish them. When our work is completed the seed is clean. We are wholesalers, organized to do a volume business, and we do it! We distribute our seeds through other merchants. Economy of operation, with lowest freight rates for quantity; land the seeds at distribution points at lowest possible cost. Each year uncounted thousands of farmers sow



and the number increases. Each year countless thousands of acres blossom like the rose. Farmers are satisfied! Our mammoth capacity is sometimes strained. We keep working.

Farm Bureaus and Co-operative Societies are active. What does the future hold for them? Whatever part of their activities is for the public good, might well be encouraged. As citizens, we observe. As merchants, we study. As merchants do not forget that it is our business to continue to serve the farmer to his entire satisfaction, and for his good. His good means our good.

The demand for good seeds is insistent. The Department of Agriculture at Washington, and State Experiment Stations, with their disinterested workers, are of constant benefit to farmers. Watch them. They will advise well. They consistently advocate good seeds of known origin. Our business is to supply the best. We do it! The accumulated endeavor of years, as represented in our business is at workers.



WOLVERINE OATS Michigans leading ciation prices. C. D. FINEBEINER, Olinton, Mich.

TELE





NATCO BOUBLE TILE NATIONAL-FIRE PRODFING COMPANY 1306 FULTON BUILDING :: PITTSBURGH, PA.

News From Cloverland By L. A. Chase

ABOUT ISLE ROYALE.

raphy and resources of Isle Royale, acres), however, has been signed up. based upon two visits which he paid to the island while connected with the Department of Conservation of Wis-Department of Conservation $T_{\rm constraint}$ of the island, he says, $T_{\rm in}$ the copper country of Michigan, in the copper country of Michigan, for accientical purposes, $T_{\rm in}$ the copper country of Michigan, for accient the country of Michigan, the copper country of Michigan, winds that blow over the island.

upon which the moose feeds is insufficient to support the one thousand moose, said to be found there, he thinks.

The island is some forty-five miles long and averages about nine miles in ter products. width. At one time it was frequented by Indians in search of copper, and the Commerce is urging the Duluth, South evidences of their mining operations Shore & Atlantic Railroad and the were until recently visible. The Indi- Copper Range Railroad to put into efans are supposed to have heated the copper-bearing rocks with a wood fire and then to have poured on cold water to crack the rock and release the met- farm industry of the region is imperal. Their copper pits are still to be seen. For a time unprofitable coppermining was engaged in by white miners from the United States.

ton Harbor maintained by people from Minneapolis and St. Paul. This, with ucts. a game-warden of the State Department of Conservation, and a few fisherfolk constitutes the sole habitants of the island. Scenically, Isle Royale is very attrcative and would make an ideal natural park if more accessible. It is the only place in the United States where we find the flora and fauna characteristic of the Hudson Bay region of Canada.

ACCREDITED HERDS IN UPPER PENINSULA.

THERE are three accredited herds Peninsula, according to Dr. F. K. Han- FIGURES from Washington show sen, assistant state veterinarian of the State Department of Agriculture. Two last year. This increase was for crops of these herds are at Manistique and one at Chatham. These are herds of pure-breds which have responded successfully to the two annual tests without any unfavorable reaction in the case of any member of the herd. The herds contain in all, sixty-one individuals. They belong respectively to John Brink, C. E. Hamiel and the Upper Peninsula Experiment Station of the Michigan Agricultural College. Such a distinction carries with it important can be accorded only in counties which have carried forward work for in the farm products purchasing power. the eradication of bovine tuberculosis.

CHIPPEWA NEWS.

C HIPPEWA county is one of the The average wage of day farm labor-few counties of the state-perhaps ers for the country is \$1.98 per day the only county-which has continued without board, and \$1.47 with board. to pay a bounty for the destruction of The average for the months hands is wolves since the state abolished the \$40.30, without board, and\$ 27.81 with bounty system on state account. Care board. is necessary, however, to see that the hunters from without the county do Says Sam: When roads get bad and not cross over and seek to collect the you can't get to the village, take a bounties for killing outside Chippewa. book and go to the other end of the The campaign in Chippewa for world.

the contracting of one thousand acres of peas to insure the erection of M R. JOHN LOWE, head of the de- a canning factory at Sault Ste. Marie partment of biology of the North- has not yet brought the total to the ern State Normal School, speaking in required figure but is still being carthe Normal Auditorium, recently, gave ried forward in the expectation of sucan interesting description of the topog- cess. A considerable acreage, (884

IMPORTANCE OF FARMING.

but there is an abundance of animal particularly in Houghton county, Mr. and vegetable life. The forest cover is L. M. Geismar, county agricultural chiefly of balsam, interspersed with agent, presented some interesting stablack spruce, white cedar, and a small tistics to the Calumet Chamber of amount of Norway and white pine. He Commerce recently. He estimates the places a low value on the standing aggregate income of farmers in Houghtimber since it is much stunted and ton county at about \$743,000 per year. twisted, due probably to the strong Much of this income is expended locally. Banks receive \$45,000 interest, He thinks the official reports of the and \$149,000 is paid out for farm laamount of moose to be found there are bor, \$11,000 for fertilizer and dryexaggerated. The water vegetation goods. This indicates what can be accomplished with greater agricultural progress in this large, but as yet not completely developed county. Mr. Geismar argued that his farmers require not more cleared acres but bet-

Meanwhile the Calumet Chamber of fect a lower rate for farm products, particularly potatoes shipped out of the copper country, without which the iled, it is stated. It cites the case of one farmer who, last season, sold a quantity of potatoes for \$700 and paid \$342 in freight on them. Otherwise, it There is a club-house near Washing- is stated, Houghton county farmers will turn from potatoes to other prod-

> In the neighboring county of Ontonagon, farmers have sought a reduced freight rate on hay shipped by rail from the south to the north and of the county, and so far the local railroads have promised a reduction of four cents per hundred. This is not recognized as sufficient and the matter has been referred to the state public utilities commission. which has set March 8 as the date for the hearing.

FARM PRODUCTION INCREASES IN VALUE.

that the value of farm products have increased two billion dollars over alone, as animal products showed a decrease.

Crop values for 1922 were \$8,961,-000,000, while those of 1921 were \$6,-934,000,000. Animal products showed a value of \$5,349,000,000 in 1922, compared with \$5,468,000,000 in 1921.

The 1922 crop value was forty-six per cent higher than in 1913, but its purchasing power in terms of other products was 10.1 per cent less. The 1921 purchasing power was 29.7 per privileges, of shipment and sale and cent less, so during the year there was an increase of nearly twenty per cent

> Figures show that farm wages are lower than three months ago, the decline ranging from 3.1 per cent to 6.4 per cent.



MARCH 3, 1923.



FARM COSTS ON DECLINE.

THE United States Department of Agriculture has issued some interesting information on farm production costs. It has gathered this information to assist the farmer in learning what it really costs him to grow his crops.

As a country average, the 1922 wheat crop was produced at an average cost of \$1.25 per bushel, whereas the same crop grown in 1921 cost \$2.01. The yields were nearly equal that of 1922 being fourteen bushels to the acre, while that of 1921 was thirteen bushels.

Spring wheat cost \$1.00 per bushel to produce in 1922 and \$2.20 in 1921. The average production was fourteen bushels in 1922 and nine bushels in 1921. The lower production in 1921 undoubtedly had some slight effect in the higher cost that year for this crop.

In the great corn belt states, Kansas, Nebraska, Iowa, Illinois and Indiana, it cost sixty-one cents to grow a bushel of corn, with a yield averaging forty-four bushels per acre.

Some interesting figures were compiled on potato production in Minne-For instance, in 1913 it cost sota. thirty-eight cents to produce a bushel and in 1922 it cost fifty-seven cents. The Minnesota farmers got an average of 103 bushels per acre; but in Stuben county, New York, where the average was 141 bushels per acre, it cost only forty-three cents, or only twenty-three cents higher than the pre-war figure. The Minnesota cost was fifty per cent higher than 1913.

HORSES GETTING LESS POPULAR.

OLD DOBBIN is still unable to compete with the automobile and is steadily losing ground, according to the United States Department of Agriculture. The number of horses on farms on January 1, 1923, showed a drop of 203,000 as compared with a year ago, while cows showed an increase of 247,000; other cattle, 373,-000; sheep, 882,000, and swine a gain of 5,590,000.

The decrease in the use of the horse in towns and cities has been much greater than on the farm. On farms the decrease amounted to seven per cent in the decade ending 1922, while the horses in towns and cities decreased forty-six per cent in the decade ending 1920.

MICHIGAN A LEGUME STATE.

WHEN the 1920 census figures were gathered, Michigan was near the top as a legume state. Then only one other state in the Union had more acres devoted to legume crops, New York state leading. At that time Michigan led in the acreage and production of white beans, stood second in dry beans, was third in clover and timothy hay mixed, fourth in soybeans, ninth in clover and twenty-first in alfalfa.

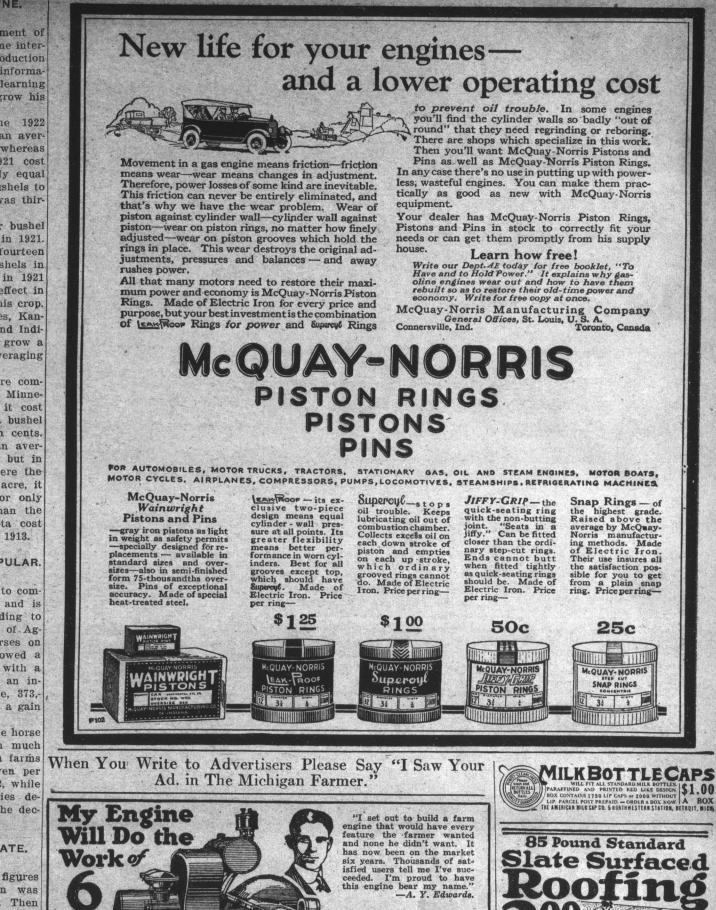
Since the year 1919 when the crop acreage was secured by the census men, Michigan has made wonderful strides in building legume prestige. Our alfalfa acreage has jumped from 74,059 acres in the census year, to 193,-458 acres in 1922, according to the figures gathered under the crop statistical law passed in 1921. The acreage of soy-beans has doubled, while tame hay which includes mixed hays and clovers, has jumped from two to over three million acres.

A few cats save much grain and a great deal of annoyance.

Protect the house with a matchbox. Speed the hogs with feed.

The clock sets an example to many a man in town. It never fails to take a rest whenever it runs down.

THE MICHIGAN FARMER



Try This Remarkable Engine

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EDWARDS

ENGINE

Lay Your Own Rooting This Spring Roll 1 Doitin your spare time. No experience needed. Only hammer and jack knife required. Use our standard Radio Slate-Surfaced Roofing.

Approved by Fire Underwriters Spark proof. Fire resisting Better protection than wood shingles. Extra durable and not affected by heat or cold.

Ward's Radio Roofing

Guaranteed

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Years

Best Standard Quality You Can Buy Only \$2.00 per roll (enough to cover 100 sq. ft.). For old or new roots, or over old wood shingles.

Red or Green Non-fading crushed slate surface beauti-fies as well as protects your home. Guaran-teed for 15 years but should last longer.

should last longer. Sector Webber, Hoolstown, Pa Uodostown, Pa Uodostiven, Pa to obligation to buy. 32.00 per roll in-cudes all nails and cement. (Add 8c if wanted with extra long nails.) Shipped from Chicago, Kansas City, St. Paul; york, Pa.; Southern, III., or New Orleans, La. (22.10 per roll from Kansas City or St. Paul.) Witherto our bauyse nearest you. per roll from Kansas City of St. Fau., Writeto our house nearest you, Address Dept, C-34

Montgomery Ward & G

Chicago Kansas City St. Poul Fort Worth Partland, On



-And Dad, he said, 'Let's go to UncleAndrew's 'cuz the hull house is warm the coldest day -and Aunt's cooking can't be beat'

And mother said 'I could bake just as good as Aunt Angie if we had her oven and our house would be nice and warm upstairs too, and we could save money, if we had a Red Cross Pipeless Furnace. I'll tell you right now, Frank Warner, no more putting off till next winter. We're going to get 'em this spring, and then I'll be sure of having 'em' and dad said ''Awright''. Red Cross Furnaces and Ranges And motines be nice and warm upst I'll tell you right now, thi



Since 1867 Red Cross cooking and heating apparatus has maintained an unexcelled reputation throughout the whole world.

Red Cross Pipeless Furnaces. Any fuel. Complete ranges of sizes; 7 styles. Each piece or section made proper size and capacity. Constant circulation of pure warm air throughout the house. 18-in. to 33in. fire pots with sides straight. Ash pit is high, deep and roomy. Most durable and efficient type of grates. **Red Cross Ranges** are "the aristocrats among ranges". Large, deep fire box, roomy ash pit, and full size oven with many exclusive features, make perfect baking a pleasant pastime. Delicious bread, rolls, cake and pastries can be made without forcing the oven.

Send for our free plan sheet. Our Engineering dept will gladly advise you on your heating problems. Our book-let "The Oven Behind the Pie" is free for the asking.

CO-OPERATIVE FOUNDRY CO. DEPT, 4 Rochester, N. Y. Branches at Chicago and Boston



them every time

HALL'S Nicotine Sulphate kills plant lice and similar insects. You can depend upon it to rid your trees of these pests. Being a vegetable extract, it will not harm fruit, flower or foliage.

It is very economical also. Made up as a spray, it costs less than 2c. a gallon.

Buy from your dealer. If he is not supplied, send us your order along with his name.

HALL TOBACCO CHEMICAL CO. 3951 Park Avenue, St. Louis, Mo.

Nuts for the North

(Continued, from page 291).

wood are available at reasonable easily removed from the shell, generalprices.

ed sorts have originated in the same is known of its adaptability to Michiway as have many of the improved gan conditions, but it is hardy and varieties of other fruits-namely, as should be thoroughly tried. chance seedlings springing up in the Various Japanese or Chinese waldooryard, along the fence row or in nuts have been grown in this country the pasture. There is nothing partic- for many years for ornamental purposularly mysterious or unusual about es. Trees of these species (especially this method of origin. Nearly every J. cordiformis) are not uncommon in farm boy knows that certain nut trees, the southern third of Michigan, where yield of much better grade than oth- they yield heavily. The average seeders. If there is a particularly fine tree ling of these Oriental wainuts, like the within a radius of several miles of his average seedling of the native black, home he is likely to know about it. It is hard-shelled and the kernel crushes is, however, nothing more than an in- badly in cracking. However, one imstance of the individual variation that proved variety, the Lancaster, has is universal in the species; and the been introduced to the trade. It has trees that have been considered wor- good cracking quality, the kernel is thy of vegetative propagation simply easily removed and it is of excellent represent extreme or unusual develop- quality. In flavor and texture this walment in some one respect.

Improved Varieties that are Available. Apparently among the best of these is the Stabler, a chance seedling found

in Maryland. The nut is only of medium size, but the shell is thin and it cracks readily, as a matter of fact, with but little more difficulty than many English walnuts or filberts. Best very limited. However, a few things of all, the kernel comes out easily, us- are known-enough to dispel some of ually in halves and often in a single the notions that are rather generally piece. This latter characteristic is held regarding nut trees. In the first particularly valuable. It is especially place, it may be stated that these iminteresting also, because in those in- proved black walnuts are as hardy, stances in which the kernel comes out vigorous, insect and disease-free, in whole the bony partition which in oth- brief, as fool-proof, as the average er nuts is found between the two black walnut seedling. Contrary to halves is crowded over to one side of what might be generally expected, the cavity or locule and the kernel has these improved varieties are comparaa chance to develop as a single large tively rapid growing, they come into piece. Associated with the easy cracking quality of the shell is an unusually productive. Set an improved black high quality of the kernel. Altogether the nut is very superior, contrasting good culture as you would a peach or as favorably with the average black an apple or a pear, and it will grow walnut seedling as do the Concord or about as rapidly as an apple tree and Catawba grapes when compared with it should be bearing nuts at a corresthe wild forms from which they sprang. One of the accompanying illustrations gives a fair idea of the size garding the comparative yields and and shape of the nut and kernel of this variety and it serves to show something of the ease with which the shell is removed.

Among the other improved black walnut varieties that have been introduced to the trade may be mentioned the McCoy, Kinder, Ten Eyck, Miller, Ohio and Thomas. Some of these are very promising, though little is known of how they will compare with one another in earliness of bearing, yield and and ornament. Walnuts are often emother tree characters when grown un- ployed. Why not have the improved der Michigan conditions.

That some will prove much better seedlings? suited to our conditions than others there can be little doubt. A number of these varieties are already growing on the Agricultural Experiment Station grounds, and stock of the others them over. It is true the black walnut is being obtained for comparative and does not graft so readily as the apple experimental purposes. New additions to this list of varieties may be ex- able percentage of the cions may be pected.

Rapids that for many years has been graft over more readily than larger bearing heavy crops of very fine nuts. stubs. Some of the nuts from this tree are shown in one of the accompanying to recommend any indiscriminate illustrations. Without doubt this tree planting of improved nut varieties. named varieties.

of hickory hybrids have been introduc- able that nut culture would prove a ed into cultivation, but few of them profitable industry in sections of the represent such an improvement over state not well suited to the growing of the average seedlings as to merit, gen- other fruits. On the other hand, a eral, planting, or even general trial. tree, or even several trees of the most One variety, Fairbanks, however, is promising kinds would prove an asset very superior. The nut is of large size to every farm and to many suburban and very thin shelled; the kernel is lots as well.

ly coming out in halves, and it is of As might be expected, these improv- excellent quality. Practically nothing

> nut resembles the native American butternut more than the black walnut. Those who are partial to the flavor of the butternut should thoroughly test the Lancaster Heart Nut.

> > Nut Trees Can Be Grafted.

Data regarding the culture of these improved black walnut varieties are bearing young, and some at least are walnut tree in a good soil, give it as ponding age.

As stated before, little is known reregularity of bearing of the different varieties. These characteristics can be determined only by careful trial. Until they have been determined for Michigan conditions the commercial planting of improved walnuts is not to be recommended. In the meantime, however, their limited planting in the doorvard, garden or about the farm buildings is to be encouraged. Trees are wanted in such places for shade varieties instead of nearly worthless

Seedling black walnuts growing in the yard, garden, pasture or along the fence rows can be made to yield nuts, of the improved varieties by grafting or pear, yet if care is taken a reasonmade to grow. Not infrequently the Only a few weeks ago attention of growth from these cions will bear a the department of horticulture of the good many nuts the third year after Michigan Agricultural Experiment Sta- setting. Trees, limbs or sprouts from tion was directed to a tree near Grand a half-inch to two inches in diameter

It is not the purpose of this article is worthy of propagation, at least for Certainly considering the present limcareful trial alongside of the already- ited knowledge regarding them extensive commercial plantings are not to Several varieties of the hickory or be encouraged, though it is conceiv-



ing, aided by various natural causes, brood of the scale than in Michigan, but recently it has become more plen- and hence it does more harm and is tiful all over the state and has done more difficult to control. considerable harm in several parts of the "Fruit Belt." Everything indicates ists who report they were not able to that unless a hard fight is put up, he- hold the San Jose scale in check with ginning this year or next year at the latest, many trees will be killed, and most completely wipe out the scale on all kinds of tree fruits will suffer very trees that were believed to be beyond serious injury by the attack on the saving, with one application of lubritrees directly or by the development cating oil emulsion. of the scale on the fruit which will prevent its being marketed.

OR a number of years the San Jose sas and in the southern part of Indiana scale has been held in check in and Illinois where, owing to the longer most Michigan orchards by spray- season, there is generally one more

> In Arkansas, in particular, orchardlime-sulphur solution were able to al-

While we are not prepared to advise that lublicating oil emulsions be Experiments which we conducted substituted for lime-sulphur solution



Thoroughness and Economy Are Essentials of Orchard Success.

several years ago indicated that under in fighting the San Jose scale in Michproper conditions and with thorough igan, until they have been thoroughly spraying, commercial lime-sulphur so- tested in this state, the results have lution diluted at the rate of one part been so promising, especially in Arto eight parts of water was an effectual remedy for this insect, even more so than the so-called miscible oils, and the attention of fruit growers. this has been substantiated by many other experimenters and by fruit growers all over the country. Other reasons for preferring lime-sulphur solution to the oils have been that the lime-sulphur solution also serves as a fungicide, which is not the case with the miscible oils, and that the latter cost considerably more.

'On the other hand many growers have had even better results with the the cost of lime-sulphur solution. oils than with the lime-sulphur solution and this has generally been the case when the heads of the trees are ing oil, (diamond paraffin), four galvery thick, or when the materials have lons; soft water, two gallons. not been used in sufficient quantities, or too little pains have been taken to soap has been dissolved and then add reach every part of the trees. This would naturally be expected under these conditions, since the miscible oils have a much greater tendency to spread along the branches. Hence, for arate on standing. If soft water is not the careless sprayer, the oils have much merit since he will be more likely to hold the scale in check than with 200 gallons. lime-sulphur solution. The oils also are even more reliable for destroying sion is sufficient for killing the scale, the eggs of several of the other scale insects, which are laid on the trees in the fall and against the eggs of the pear psylla and several troublesome leaf rollers, than is lime-sulphur solution. There is also a special occasion for the use of miscible oils when spray ing trees near buildings, and especially in the cities and villages, since the cide and fungicide for use during the lime-sulphur solution is likely to black- summer, which makes it possible to en paint.

When the conditions have favored permanent injury to the trees and savthe use of this remedy, we have ad- ing the crop of fruit. The foliage of vised its use, but as ordinarily used, the apple will not be injured except in the price has been such that we have extremely hot weather. preferred lime-sulphur solution, when needed only for controlling the San a fine nozzle and under a high presbe considerably less.

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kansas that we believe it to be of great importance that it be brought to

The oil emulsions are very easy to prepare on the farm as no special outfit is necessary and when their use becomes so general that the emulsifiers can be brought in in carloads or manufactured at convenient points in the principal fruit-growing centers, the cost will not be more than onesixth of the cost of the miscible oils now on the market and about one-third

The formula calls for: Liquid potash fish oil soap, half gallon; lubricat-

Heat the soap and water until the the oil. Emulsify the oil by pumping it from the kettle into a barrel and then into another barrel. This should make an emulsion which does not sepreadily obtainable, add two pounds of caustic soda or two cans of lye for

A two per cent lubricating soil emulwhich means that four gallons of oil or six gallons of emulsion prepared according to the above formula will be sufficient for 200 gallons. The emulsion may be diluted with water for use during the fall or spring, or may be added to 200 gallons of Bordeaux mixture, making a combined insectiannle trees clean up For this reason there has been a thoroughly sprayed during the dorgrowing use of the miscible oils. mant period, thus perhaps preventing

Oil emulsions should be applied with Jose scale, especially as the cost would sure, taking pains to cover the entire tree from the ground to the tips of Recently a new emulsion made from the branches, but stopping when this lubricating oils, according to a formu- has been done, since if considerable la suggested by the Federal Depart- quantities of the oil run down the ment of Agriculture, has been quite trunks and soak into the ground to thoroughly tested, especially in Arkan- the roots, serious harm may be done.



The famous "Boot with the Muscles"

"BUDDY" Boots have tough strips of live rubber to give strength to the uppers as well as to prevent cracking. Every vital point of wear is strongly reinforced without making the boot uncomfortably heavy. A splendid boot for farm, garage and general use.

There is a dealer in your vicinity who sells Top Notch Footwear. It costs no more than the ordinary kind. You can always identify our product by the Top Notch Cross.

BEACON FALLS RUBBER SHOE COMPANY BEACON FALLS, CONN.



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Capital Comment

By Our Lansing Correspondent

Legislation Interrupted.

ing the past week due to the State 400 bills now pending in legislative G. O. P. Convention at Flint and the halls and committee rooms. joint legislative celebration of Washington's birthday.

However, the House passed the Town "Filled Milk" bill and the Hor- to 4 a bill introduced by Representaton cheese standard bill. There was tive Wells providing that depletion in practically no opposition to these a county drainage fund, due to embezmeasures.

"Land Certification" Proposed

From a farmer's standpoint, perhaps the most important development was the introduction of the much-discussed "Land Certification" bill sponsored by the development bureau of the State Department of Agriculture.

This bill would establish a system of land certification and transfer under state regulation. It would make the debate. No doubt Lansing folks certification of land optional, but would prohibit the selling of any unimproved land without certification un- some remarkable speeches for the less it had been seen by the purchaser occasion. while the snow was off the ground.

Provision is made for a state license for dealers who agree to handle only certified land. Certification of land would include the following: Map, location, topography, soil types, and the points.

Taxation Biggest Problem.

"The biggest thing we have to do here this session is to work out a schools," he declared. "Mebbe the city definite tax program," said Rep. children need it. But not for children Thomas D. Meggison of Central Lake out in the country. They git all the in a recent speech on the floor of the House. He added, "We are confront- of physical training. Don't I know?" ed with responsibility for shaping a general taxation program and must has shown that the children of the keep faith with the people."

sized up the big job of the 1923 session of the Legislature.

A large number of tax changes have been proposed and referred to the velop symmetrically. Committee on General Taxation of the House. Members of this committee over-develop the major, or fundament-seem to be taking their task seriously. al muscles, while the finer or accesbeen proposed and referred to the velop symmetrically. seem to be taking their task seriously. al muscles, while the finer or acces-

E. Evans of Tipton, Chairman of the Committee, "to secure a sensible and produce a degree of mental alertness adequate taxation system which will and neuromuscular co-ordination esyield sufficient revenue and at the sential to an enthusiastic and optimissame time relieve real estate from its tic outlook on life. present excessive burden.

Farmers Will Be Represented.

favorable attention this session if the organized athletics; folk dancing; number of farmers in the Legislature is any indication.

the 100 Representatives give their oc- the farm. cupations as farming. The complete occupational census is as follows:

Senators-Nine lawyers, eight farmers, three bankers, two physicians, two editors and publishers, two realtors, one contractor, one lumber merchant, one wholesale milliner, one manufacturer, one retired mining superintendent, and one insurance broker.

House-Thirtny-nine farmers, fourteen lawyers, six merchants, four of them retired, six newspaper men in- When play is definitely recognized cluding editors and publishers, five as a necessity for farm children as druggists, four manufacturers, two well as city children; for farm mothactive and two retired, three insurers and fathers as well as city mothers ance brokers not counting two farmers and fathers; when regular seasons of who do a little insurance business on the side, two bankers, two realtors, and sexes according to their tastes two salesmon two salesmen, two railroad men, one and needs; when this is no longer a locomotive engineer, two laundry done as something requiring an apolmen, two livestock dealers, an edu- ogy, but as a matter that is wholly cator, an electrician, an illuminating for the good of the order; you will engineer, an auto dealer, a chemist, hear much less about the migration a blacksmith, a bank employee, a of rural folk to urban centers.

physician, a research student, a ma-

men there should be someone found Legislative progress was slow dur- to offer expert advice on each of the

Drain Law Changed

The House passed by a vote of 68 zlement, may be covered by appropriation from the general fund of the county.

Date Set For Big Debate

Final consideration by the House of the Pitkin Capital Punishment bill has been made a special order of business for Tuesday, March 6, at 2:30 m. Interested citizens from all ·p. parts of the State will be on hand for will turn out in generous numbers. The legislative orators are preparing

PLAYTIME.

GRAY haired, gray bearded state senator, whose empty hands were seamed and twisted with location of roads, schools and shipping the lines of a lifetime of hard work, argued against physical education in the schools, the measure enacted by the Michigan legislature of 1919.

"Mebbe it's all right for the city exercise they want without fol-de-rols He did not! Actual investigation farm are as much in need of recrea-In these few words Rep. Meggison tion as any. The report of a committee that went back to the farm for its facts, contained these conclusions: (a) Farm boys and girls do not de-

"It is our aim," said Rep. Charles sory muscles are neglected. (c Farm life in general does not

The report does not stop with not-

ing the defect. It goes on to point out the very obvious remedy. That rem-Agriculture should receive very edy is organized play. Group games; community singing are among the actual necessities for the well-rounded Eight of the 32 Senators and 39 of development of the boy and girl of

> The universal, though short-sighted objection to play is that it interferes with work. It does. And so, by the way, does sleep. We may as well make up our minds that sleep and play are two of the things for which work must at intervals be set aside. From the standpoint of mere existence play is no such essential as sleep, but for the program of a sane life the comparison between the two is amply justified.

chinist, and a retired steamboat agent. Plenty of good straw under the an-Among such a diversified body of imals' feet saves feed in the manger.



The ARO Tractor will pull a sulky plow with 10 or 12 inch bottom, turning a furrow 7" deep—and the operator rides! The ARO will do as much plowing as any team with a walking plow. It can be easily changed, in a few minutes, from a plow to discs, cultivator or other implement. The ARO is as easy to steer as an automobile and can be turned in a $3\frac{1}{2}$ foot radius.

Mr. Arthur L. Watson, Grand Rapids, Mich., writes, "One man can do as much with one "ARO" as two men with two walking tractors. I do not keep a horse at all, doing all the work on 30 acres with two small tractors cheaper than I could think of doing it with horses."

Write for full details of this wonderful little machine.

in *Plowing*



Worms extract nutrition from the body. They irritate the lining of the intestine and cause inflammation and ulceration. They reduce the animal's vitality and make him more susceptible to other diseases. The feed given a wormy hog is largely wasted. Even apparently healthy hogs will put on weight much more rapidly when freed from worms. It is simply economy to rid your herd of worms. Santo Worm Capsules will do this for you-quickly and cheaply.

This new formula has been thoroughly tested and O. E'd by thousands of hog raisers and veterinarians. Their action is specific, and results are quick and certain. The worms are killed and carried off. One capsule to each hog up to 90 pounds is sufficient. Santo Capsules are fully guaranteed. Box of 25 capsules, \$1.25 (add 5 cents for postage); 160 capsules, \$4.50 (postage paid); Capsule Gun and Speculum, with full instructions, \$2.50 (postage paid). Order today and give your hogs a chance.

American Veterinary Supply Company, Pennsylvania Ave., Indianapolis, Ind.

Big Standard Brand Tires which give complete satisfaction and long mileage, yet are sold at wholesale prices. Prepaid to you, Write for prices and circulars to

Aspiri Say "Bayer" and Insistl

Unless you see the name "Bayer" on package or on tablets you are not

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





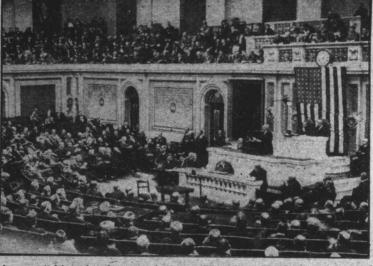


The Baltic seaport of Memel, inhabited principally by Germans, is today one of the political foci of the world's attention, for it is claimed by four nations.

Crowds waited outside the courthouse to hear the results of the trial of the multimillionaire "Coal Barons," arrested for their failure to obey French military orders in the Ruhr.



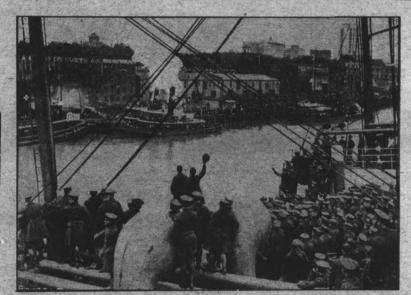
Florence Martus, island resident near Savannah, has waved to incoming ships for 36 years.



A recent historic photograph shows President Harding recommend-ing to congress the acceptance of the British debt settlement plan with a total payment of nearly five billion dollars.



This three-foot cigar, a gift to "Uncle Joe" Cannon, will give him a regular smoke.



Virtually the entire population of Savannah turned out to line the river banks and cheer the last of our returning soldiers from Germany, who arrived on the S. S. St. Mihiel.



Thirteen centuries before birth of Christ this famous Valley of Kings was the mausoleum of Egyptian royalty. It is here that the tomb of the greatest Pharoah, Tutankhamen, was found.



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Capt. J. Cawthorn, U. S. A. and Mrs. Cawthorn returned on U. S. S. St. Mihiel, with their twin daughters, born in Germany.



The heart of Rose Wendricke was moved over an inch, that a nail might be extracted from lung.

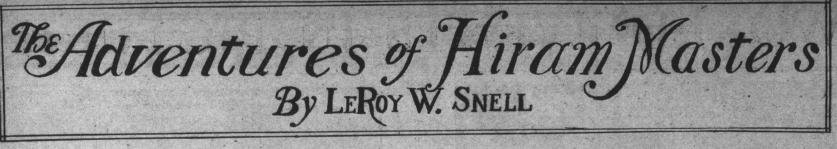


Carefully found to a litter to prevent crumb-ling of the wood, this 3,200-year-old chair was carried from tomb of Tutankhamen, Luxor.

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Copyright by Underwood & Underwood, New York





home. A little group of people sitting in the parlor discussing the sale, or proposed sale, of a portion of the Masters' farm. Judge Slade had been called in to draw up the papers comprised Mrs. Masters and Marion, the black-clothed stranger who had introduced himself as Mr. Montmorancy, J. P. and John Welling, who "had just happened in." Hiram was seated in the center of the group and listening to Welling's urgings.

304-16

"I think you're doin' right, Pa," he was saying. "It's a good price, most twice what you could get fer it for farming, and this feller says he wants it for a trout farm an's willing to pay the price. Helen and me are leaving In traviling o'er this globe of Earth; We seek to be amused by change, soon, now, fer the city, and like's not another tenant might turn the stock into that lot and the'd get sick like they done that other time."

It was then that Marion did a surprising thing, surprising, at least, to Hiram, and perhaps to herself, though for the last few days she had been thinking deeply and Miss Abigail's visit had given her still more food for thought.

She had seen the hurt look come into Masters' eyes at the mention of his own daughter, and, too, with a woman's intuition had sensed a something in the looks she had surprised between the stranger and Masters' son-in-law. Crossing the room she laid her hand upon Hiram's shoulder and bending, whispered:

ought to sell? Is the land as worthless as you think?"

Hiram started, caught her softened expression and, for a moment the hot tears surged up into the kindly old eyes, the lips trembled and Hiram field." looked away.

the way this man acts that there is ed his appearance with varied emo- oil, there was lots of cedars around, more to this than he cares to have tions. you know," she continued.

the fine old eyes of him looking straight into hers, and for a moment they read each other's searchingly.

'Marion, girl," he said, so low that who chuckled audibly. "Marion, the others could not hear. girl, I'd give the whole farm and, yes, all the rest with it, just to keep and hold the respect of you and your moth- don't think he did. I think he knowed er, and to give you two happiness, but don't worry, girl; the field's not worth half what he's payin', as you've heard me tell him."

As Judge Slade finished the papers

was taking place in the Masters' ing the deed, Edward Worthington took samples down by the creek." sauntered in and Marion, out of the age into Mr. Montmorancy's hand, and be surprised if the money he had ina knowing look pass between them.

The papers were signed at last and, and was seated at a little table in the. in paying for them Mr. Montmorancy and Welling looked nervously about. corner, writing. The rest of the group J. P., took the money from a bundle surprisingly like the one Marion had on. "Some thirty years ago there used seen Worthington pass to him. Then, to be an old mill on that lot, but after picking up his hat he backed out of the most of the timber was cut out of the room, bowing as he went.

"If he's an expert he did know betcorner of her eye, say him slip a pack- ter," continued Hiram, "and I wouldn't

vested belonged to someone else." As he said this Worthington scowled

"It's like this, folks," Hiram went this section and the farms cleared, the He had scarce left when there was a mill was abandoned, the machinery

And hope to win the race;

On whom we most depend,

And that the real successful ties

So let me hope to live my life,

In midst of sorrows, joy or strife,

And find some time to spend

In giving kind and thoughtful care

To each who'd be my friend.

Are those with each old friend.

And oft forget to realize

In such a way that I,

Will not forget to try

AN OLD FRIEND

By Verne H. Church

And tire of common place; In taking stock of all That gives to life a sincere worth; We climb the hills and ride the range,

I surely can recall

No greater, sweeter happiness, Enduring to the end;

I'm sure there's none, you need not

guess; It is an old-time friend.

If it be wealth you're seeking here,

Or honor, place or name; There may be none to intrefere, .In making good your aim;

But sure I am that you will find It's better to unbend;

Be good, be true, sincere, and kind To each and every friend.

begrimed with mud, he presented a made of anyway. startling appearance.

himself into a chair. "Don't sell that looking for a way to make ourselves

"I didn't know, only I'm afraid from asked quickly, while the others receiv- using it fer a factory to distill cedar ters. "I knew all the time you were

"They've found oil there, the crooks; money there was in the business. Then Hiram looked up at her again, and they are trying to cheat you out of it."

All present gasped with real or pre-

"Don't git excited, folks," Hiram id. "Don't git excited. I'm sorry if aid. that poor feller fooled himself, but I that it wern't oil as well as I did." This he said eyeing his son-in-law and Worthington narrowly. "You see, it was like this-"

rush of footsteps on the porch and taken out, and nothin' left but the "Are you sure, Daddy, dear, that you Harold Stoddard burst into the room. building and great heaps of sawdust, hard fer you to find a new tenant and Hat gone, hair disheveled and clothes which is about all the soil there is

> "Well, Doc, your father," turning to "Mr. Masters," he should, throwing Harold, "and me were young then and famous and rich. . Doc thought of this "It's sold, Harold, why?" Marion scheme of buying the old mill and and he'd read somewhere of how much

"Well, we started the thing a-going, put in oven and truck and distilled oil the farm." by the barrel. We had one side of the tended astonishment, except Hiram, shack piled high with the stuff and said, "Hiram, aren't you a little hard Doc had gone to the city to find a on John? You'll need someone on the market for it, when along came a cy- farm and John, I hear, is a good farmclone and wrecked the whole works, er, and you must think of Helen." spilling the oil into the sawdust and smashing the building to splinters. but he and Helen must both learn Doc had found out anyway that we their lesson. I won't see them suffer couldn't sell the stuff for enough to but it's having it too soft that's come pay us to rebuild, so we sold the ov- mighty nigh ruining both o' them, and ens, and marked the whole thing down besides, Sarah," he continued, "I have "But-" interrupted . Harold, "that on the experience side of the ledger. other plans for the farm. I've learned

EANWHILE a different scene and Mr. and Mrs. Masters were sign- fellow is an expert and they dug and In the year that followed, grass and sod formed over the sawdust piles, and bushes and undergrowth sprang up but,[®] until this day, the oil continues to seep down into the creek, spoiling .the water for the stock."

John Welling's face had gone white and Worthington's flushed scarlet.

"You mean," said John, "that it isn't real oil; that you knowed it all the time?"

"Some swindler, I'll say," muttered Worthington. "So you deliberately swindled our friend." Worthington.

"Didn't know he was your friend. Anyhow, I don't believe he was much swindled, guess you'll have to look further for the suckers."

With a snarl Worthington turned to Stoddard, "Well, little crusader!" he sneered, "So your thrilling last hour rescue fell flat, didn't it?"

Just then the 'phone rang. It was from Judge Slade who had hastened away upon hearing Harold's news, without waiting to hear more. Marion answered it, then turning said:

"Judge Slade says that Mr. Montmerancy went from here right to the bank where he had already made arrangements to mortgage that lot. He borrowed two thousand on it and left on the fast, train."

With a muttered curse Worthington slammed out of the house, closely fol-To play the game both fair and square, lowed by Welling.

CHAPTER XI.

THAT evening John wertung ed. "Say, pa," he began, "I don't know but what Helen and me had better stay on the farm after all. It'd be I ain't so all-fired keen about city life, neither."

"How much did you have in the oil scheme?" Masters asked. "Why, me? Why, pa, I didn't have-

nothing-"Don't lie to me," interrupted Masin on it. How much? Well, when you find out let me know and I'll write you a check for the amount, but I've already made other arrangements about

After Welling had left Mrs. Masters

"Yes. John's a good farmer, Sarah,

AL ACRES-Al's Answer Was Full of Kick but the Cans Weren't.



MARCH 3, 1923.

my lesson, too, and it's just this: that folks, when they get as old as we be have two courses to choose from, one is to retire or to set back and let the youngsters take our place while we go to seed and rust, and fade until we're sick o' living and everybody's sick of us; or, we can get our second breath, so to speak, and replace the strength and suppleness of our youth with the lessons that experience has taught, and go on being useful and bringing forth fruit. I've got a good idea that you and me have both got a good second wind in us yet, and I don't believe God intends us to slip the harness and roll in the green pastures, so we're going back on the old farm ourselves, in the spring.

"It was in building up the old place that I got most of my happiness when I was young, and I believe it's where we will get the most happiness and comfort during the sunset days.

"I'm going to try out something new that I've been studying on. A new system of farming. It's like this: I have about half of the farm into wheat now. In the spring I'll hire one man and we'll plant the other half to beans and in the wheat we'll sow clover. When the wheat and beans are off, we'll sow wheat where the beans have been, and then, in the spring, we'll turn the clover under and put in beans again, so, all the time, half the farm will be to beans and the other half to wheat. There won't be any stock to feed, so when the beans are threshed we kin go to Florida or stay right there and enjoy ourselves or, if I am feelin' extra pert, I kin ship in a car of lambs to feed during the winter. The clover will, with a little help from commercial fertilizer, keep the land up in top notch condition, and both crops require little attention and both are cash crops.'

"Oh, Hiram, if we could only do that, I'd love it. I do so want to feel that I'm still useful in the world."

"Do it? Of course we kin do it!" and rising Hiram walked to the window, then turning, beckoned to Sarah. Together they stood looking out into the star-lit night, to where, on the step sat two figures. - Slowly the two silhouetted figures swayed toward each other until they blended, then they beheld by the light of the stars, Marion's upturned face and the other bending above and kissing the sweet lips, reverently, tenderly. "An' besides," Hiram resumed, al-

most in a whisper, his arm stealing around Sarah's waist. "An' besides, I shouldn't wonder if Doctor Stoddard, Junior, and his wife 'ud be needing this place to start husekeeping in." THE END.

WHEN THE WOMEN BID

BY-AL. RICE When the women start to bidding Then the limit is the sky,

Are you one who don't believe it? Then you'll learn it bye and bye. You may learn it to your sorrow As your humble servant did; Once I tried to "buck the tiger". When a woman had the "bid."

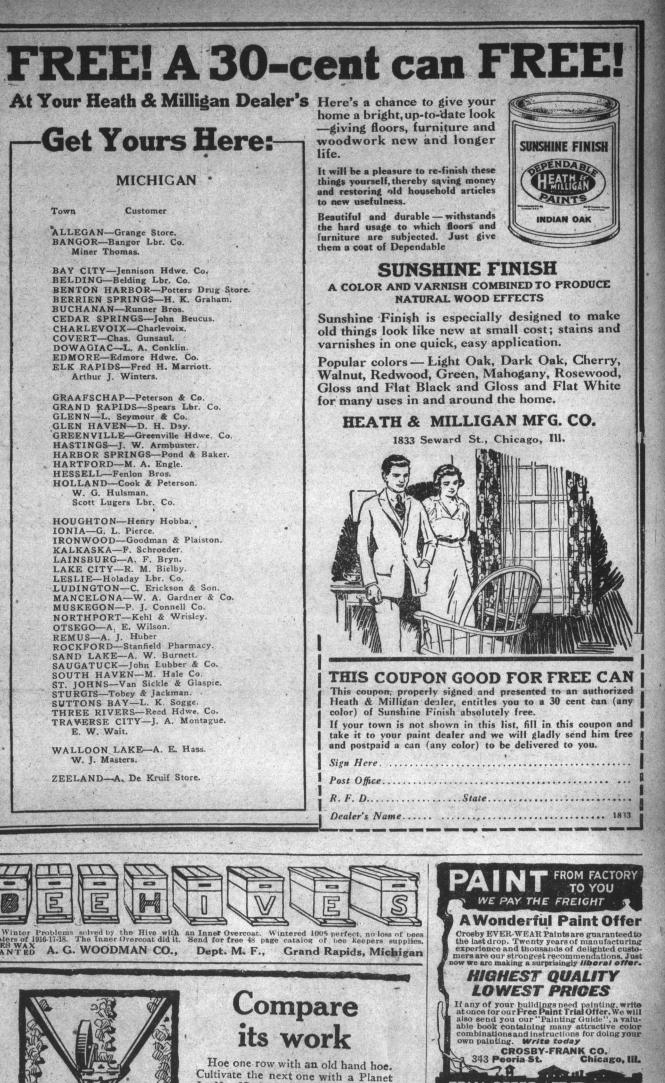
When the women start to bidding Hang your fiddle on the fence; For the air is full of discord And the atmosphere is tense. Should you chance to overbid them. You will wish you'd gone and hid; For a chip is on their shoulders, When the women start to bid.

Look around you and be careful; Let it go for fifty pennies If a woman has the floor, Let it go for fifty pennies If it's worth a hundred more. Shut your "clam" and seal it tightly, While you sit upon the lid— With the fates you mustn't trifle, Whon the women start to bid

When the women start to bid. "Duck your nut" and keep on duck-

"Duck your nut" and keep on du ing; (For I speak advisedly) You may profit by example That's exemplified in me; For I wrecked my future comfort In a place where you may skid: V-i-z.—And to it namely: White a momen had the "hid"

Where a woman had the "bid."



Cultivate the next one with a Planet Jr. No. 17 single wheel hoe. You'll find that you can work several times as fast with the Planet Jr., and the work is much smoother and cleaner. There'll be no kinks in your back when you're through.

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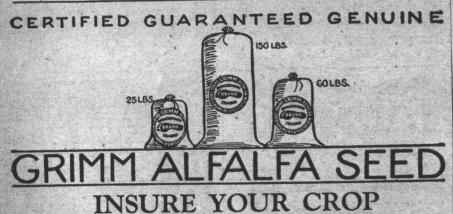


Kodak on the Farm

While there are always pictures for fun, you will especially appreciate the practical purpose Kodak serves on the farm.

For example, pictures like the illustration above are selling photographs. In correspondence and advertising you need them, as picture records you want them. The Autographic Kodak gives them, the easiest way-and complete even to date and title.





By planting seed of known origin. "BLACKFOOT BRAND" Certified Genuine Grimm Alfalfa Seed is grown on registered fields, and conforms to the rules of the International Crop Improvement Association, governing the production of Certified Grimm. Sow BLACK-FOOT BRAND Certified Grimm for best results, withstands severe God. And yet many find it very hard, the church than did a number of peowinter conditions, is not affected by heaving, more productive than for some reason, to render unto Him ple who were "well fixed." But the

Dealers selling BLACKFOOT BRAND Genuine Grimm Alfalfa Seed are help-ing the farmer pro-cure better seed and are building sales on a permanent basis.

Packed only in SEALED bags bearing the BLACK-backed only in SEALED bags bearing the BLACK-giving to God, would be like a street special appeals. Most literally did he FOOT label in 25, 60 and 150 pound sizes. If your dealer cannot supply you with BLACKFOOT BRAND Genuine Grimm Write direct to



With the Great Teacher Our Weekly Sermon-By N. A. McCune

tribute to Caesar?" It does not seem ship in New York one raw winter day, like a dangerous question to ask. In three or four ragged street gamins the beginning of the Civil War it was darted in and out among the marching sometimes dangerous to ask a man in soldiers, placing something in many of the border states whether he was for the men's hands. He was one of the the north or the south. When you ask- favored, and found in his palm a few ed that, you might start something. In sticky, dirty, candy beans. That was Russia in the days of the czar it was the send-off the street arabs were givnot always wise to ask questions of ing to the men. He said it touched people you met. There was social dy- him with its sincerity, as few things namite everywhere, ready to go off. did in the war. Those lads were doing And this question about paying taxes their best to show what they thought to Caesar was like that. The Romans of the soldiers who were going to fight were like the French in the Ruhr, hat- for the stars and stripes. It was their

> viosometimes lently - opposed. The way taxes was especially despised. For one to declare that taxes should be paid to the Romgovernment an a popular remark. Yet Christ an-

swered this question in a way that did not evade, which covered the ground exactly, and yet which did not offend even the most radical. No wonder that "they marveled at him." This, of course, has become a classic remark -render unto Caesar the things that are Caesar's, unto God the things that are God's.

It still stands as a trenchant putting of this geat truth. The average man believes that Christianity is narrow. He thinks that if the church had its is not the precise idea. The world is God's world, and the machinery of existence has to be kept running. If the (about one-eighth of a cent) it meant church took all the money and there was none left for seed corn and seed unto God in a way that showed how potatoes, and farm implements, it would go hard with the world. The farmer who works his land is working with God. He certainly would not get far if he worked against God. He is a lars to foreign missions, and the like. Caesar." That is a necessity without he was not legally responsible. world.

 $B_{\rm No.}^{\rm UT}$ that is not all there is to it. Many folk do render pretty well unto Caesar, but forget the last started to go the aged man said, "You part of the sentence. It ought to be must not deny me the privilege of givvery easy to render unto God, for He ing because I no longer have much to is with us constantly. Anywhere we turn there is the handiwork of a good handed his visitor a silver half-dollar. and a constructive God. "He is not far from every one of us." The sun that travels its little ninety-three million miles to kiss the grass in the of constant surprise to me. He remorning; the rain that makes cultiva- ceived ten dollars a week as nighttion possible, are the footsteps of this watch, at a factory. He gave more to other varieties, seeding cost is practically the same. His due. Now, the fact is, that He surprising feature of it was, that he urchin making a donation to the Unit- render unto Caesar, for he had reared ed States government. "For every a family of five sons and daughters; beast of the forest is mine, and the and unto God, in the ways I have decattle upon a thousand hills. I know all the fowls of the mountains: and the wild beasts of the field are mine. If I were hungry I would not tell thee: for the world is mine, and the fulness thereof." (Ps. 50). No, God needs none of our gratuities

But hold on, that isn't all there is to it. We spoke of that urchin making a donation to the United States government. That is not a joke, for it

HOSE were keen and captious has been done. A soldier in the late questions that were put to the war told me the other day that as his Great Teacher. "Shall we pay regiment was walking down to the ed, and quietly- donation to the government, and it was a beautiful thing to do. The government did not need their attentions at all, but what a bright spot it were collected left in the minds of the boys who were departing for a foreign shore.

> GOD does not need our contribu-tions. But we are happier when we are cooperating with Him in service, and when we recognize Him as was anything but our Father. You do not need the piece of crumpled cooky which your small boy brings to you, yet you like to have him do it, because it shows how he feels toward you. And it makes him happy as he does it. You know when he has been in mischief, but like to have him tell you about it, and own up to it. In short, you like to have him treat you as a parent. And he is more natural and cheerful when he does so. That is the way God feels when we recognize His as our best friend. "Render unto God."

Jesus did not make rules that the world was supposed to follow, in the way, and the preachers had their way, path of economics. He left that for us they would take about every cent a to work out. He left broad, universal man has. Jokes about the church principles which will work anywhere, finances are always in order. But that and left their particular interpretation to the men and the age.

When the widow gave her mite everything to her. She was rendering deeply sincere and spiritual she was. Peloubet has a beautiful touch. A Presbyterian elder was rich and annually gave away several thousand dol-Christian, at least to the extent of Suddenly he became poor, through working with nature. "Render unto paying the debts of another, for which The which there would be no orderly collecting agent for a cause to which he had given a thousand dollars each year for many years called on him, simply as an old friend, and made no allusion to money. But as the agent give," without a sign of humiliation

> A^N elderly man, a member of the first church I had, was a source scribed.

SUNDAY SCHOOL LESSON FOR MARCH 4.

SUBJECT :- Jesus Teaching in the Temple.

LESSON:-Luke 20:1 to 21:38.

GOLDEN TEXT:-Render unto Cae-sar the things that are Caesar's, and unto God the things that are God's." Luke 20:25. MARCH 3, 1923.



My little girl was exposed to the trying to follow the regular routine. whooping cough recently. Is there any way by which it can be headed off? What do you think of vaccinating against it?—H. J. L.

Vaccination against the whooping cough is not sufficiently reliable yet to be depended upon. Keep the little girl where you can watch her, and be par-ticular to see that she is not exposed to colds. This does not mean that you should keep her cooped up in the house. On the contrary, she will do will do her any real good?—U. R. by being out in all decent better ment of any cough, and be particular infection besides the teeth. Often old, to keep her from infecting others. Per- decaying scraps of tonsil material are haps she will not have the disease. If making trouble. Purulent sinuses of she does, be sure to get the best medical attention possible, for whooping infection. The principle is exactly the cough is a dangerous disease. There same as with the diseased teeth. In is a stage when fever exists and dur- old chronic cases that have existed for ing this the child should be kept in several years there may be many pains bed. Once this is past, however, she persisting after all points of infection may be up and out of doors, except- are removed. These pains can be ing in really inclement weather, and greatly relieved by treatment directed is much better for the fresh air. If to improving the circulation through she vomits you must take great care the joints. Many doctors have baking to give her the most nourishing and machines which are used effectively.

HEADING OFF WHOOPING COUGH. easily digested food, giving small meals at frequent intervals rather than

My mother is rheumatic and has been so for a number of years. We learned a few years ago that this complaint was often the result of poisons

I think she should not give up. weather. But watch for the develop- There are many other points of focal the nose and other parts often produce



THE CONSOLIDATED SCHOOL.

N the January 27, 1923, issue of article by K. E. C., entitled, "Dis-

trict vs. Consolidated Schools." cle are profound untruths, some are exaggerated, and others picture the conditions as they are.

It is not true that after 1924 every teacher in Michigan must have a life certificate. After September 1, 1925, no certificate will be granted to any person, who has not completed one year of professional training in advance of a four-year high school course; and no second or third grade certificate can be renewed, unless the missioner of schools, you can hardly applicant has completed twelve weeks' professional training since previous certificate was received. It takes two years of work in a normal school in Michigan to obtain a life certificate. Proof to the superintendent of public instruction of five years of successful teaching prior to the passage of this law may be an exemption to the above requirements.

schools do not always come from disthe individual student, his or her ef- ty officials. The case has been known fort and time placed upon school work where it was almost impossible to oband the training received from former tain anyone to accept the office by apteachers. It is a notable fact that city, pointment. graded and consolidated schools em-

district school. They went further electors. than that. Nearly all of these men K. E. C. says: "Now, as ever, knowlattain success politically, industrially, every boy and girl.-Le Roy Bell.

educationally or commercially without at least a high school training. Any school system that does not furnish The Michigan Farmer, I saw an unconstrained high school advantages is not investing very much in its boys and girls. I think that it is obvious to Some of the statements in this arti- all, that this is one of the greatest deficiencies of our district system.

K. E. C. admits that district schools should be improved, and suggests the election of school commissioners with "up-to-date qualifications and training and with the right ideals before them." We agree with him in this; but there are the conditions: As long as high school superintendents, principals and teachers of a county are receiving a higher salary than the comexpect to get these people to finance a political campaign to obtain a position where the work is more disagreeable and strenuous, the responsibility greater, and the salary from \$200 to \$1,500 less that what they are now receiving.

In some of our counties it is difficult to get candidates for the office on account of the fact that the county com-The best students in our high missioner must not only have certain educational qualifications and executrict schools. Whether they do or not tive ability; but he is also one of the depends largely upon the capacity of hardest worked and poorest paid coun-

I fail to see how we are in danger ploy teachers with higher qualifica- of a "highly Prussianized system of tions than the average district school. education," as K. E. C. puts it. The It was said that many of our great people still have the voting privilege men were born on farms and the writ- and no change can come without the er "assumed" that they attended the consent of the majority of the school

not only attended high school, but are edge is power, and this is the time for college graduates. They succeeded not best efforts." This being undisputable, because of the district school, but in we should urge the passage of a law in spite of it. Lincoln, Roosevelt and the present legislature to raise the Henry Ford would have succeeded salary of the county school commiswithout any school at all; but that is sioners so that this office will attract no argument that we need no schools. the best men in the educational field It is safe to conclude that it is a con- of today. Further, we should put high siderable handicap for a young man to school advantages within the reach of



If your dream of success seems like a hopeless ambition, if you are discouraged trying to get ahead on high priced land, if your present location fails to give you opportunity, there is a new deal for you, a new chance in the fertile, virgin farms of Western Canada, where wheat produces 20 to 40 bushels to the acre, where the 1922 crop was biggest in history, here oute harlay and hear and fodder groups are the busic a group. where oats, barley and hay and fodder crops are the basis of a great dairy industry, and a man's work brings him success and prosperity.

Low Priced Land—the Last Great West

In Western Canada you still can buy virgin prairie land at \$15 to \$20 per acre, on long terms if desired, near to town, railroads, etc .- land such as has for many years produced the world's prize winning wheat, oats, barley, flax, rye, alfalfa. Canada had no "war time" land boom; prices are not inflated — you get in on the ground floor.

Taxes Favor the Farmer as Values Increase

The tax laws of Western Canada encourage the producing farmer. The tax on land is reduced when it is brought under cultivation-while on your buildings, machinery, improvements, personal property, automo-bile, there is no tax at all. A single crop is often worth more, acre for acre, than the cost of the land.

Pay Out of Profits Canada welcomes the industrious settler. What you have now isn't so important. If your capital is small, or you cannot sell your present holdings to advantage, rent a fertile Canadian farm and "try it out" for a season or two. Make a good living, increase your capital, and buy later. Farms may be rented from successful settlers on easy terms; in some cases with option of purchase.

Rent Now-Buy Later

Buy on Exceptional Terms-32 Years to Pav For the benefit of those wishing to buy land a national non-profit sharing organization-the Canada Colonization Association-has been established with head office at Winnipeg, and United States office at St. Paul. This Association offers selected land convenient to railways-much of it at \$15 to \$20 per acre - on very small cash payment; no further payment until third year; balance extended over thirty years, but purchaser may pay up and obtain tile at any time if des sired. Interest six percent per annum on deferred payments.



MARCH 3, 1923.



The very first time you use Calumet your baking will be perfectly raised, sweet and wholesome. And you can expect unfailing uniformity just as long as you continue to use it, because



GALUM The Economy BAKING POWDER

Never varies. The can you buy to-day holds the same quality and leavening strength as the first can that was made thirty-five years ago. In every can the last spoonful is as good as the first.

There is no substitute for Calumet-nothing "just as good." Its sale is 21/2 times as much as that of any other brand.

A pound can of Calumet contains full 16 ounces. Some baking powders come in 12 ounce instead of 16 ounce cans. Be sure you get a pound when you want it.



THE STORKSHOP PHARMACIES, Box 14 Flint, Mich.

patience. If bits of bright-colored DAHLIAS, GLADIOLI, Hardy flowers. No novel-ties. Collections. Moderate prices. List free. HENRY ENGEL, R. 1. FINLEYVILLE, PENNA.



By Nelle Portrey

T is not the purpose of this article used for this purpose, much more in-to teach you to entertain your terest will be taken. child, but rather to tell you how to teach your child to entertain himself. hour's play each day for the entire His older brothers and sisters are at winter, with a box of toothpicks. I school and it is often a problem to would not advise this, however, if the find some clean and healthy amusements for the little tot.

any of the amusements dear to the hearts of the little folks, such as blowing soap bubbles or cutting paagreeable litter to sweet up and eithhelp to develop the child's imagination and love of creation, that is a natural trait in any normal child.

We save all the scraps of wrapping paper and now that the older children are in school, our little tot spends many happy hours making scrap books. He cuts the paper the right it out into a tiny loaf when she made books. He cuts the paper the right size and with twine and darning her's out, and when it was baked it needle sews the sheets together. In was my bread for supper. I know it needle, sews the sheets together. In these books he pastes bright pictures which he cuts from seed catalogs or magazines. After the little fellow becomes tired of this amusement, he is told that it is now time to gather up the scrap papers. He thinks he is

...........

Some children will enjoy half an child can not be taught to gather up the toothpicks after playing with them I do not agree with many mothers each time. Farms may be laid out, who think their child should be taught fences built, and even a house and to be a paragon of neatness and clean- barn added by the use of these little liness. While the rudiments of order sticks. If you happen to have dye mixand tidiness must be impressed on the ed for some other purpose and will dip plastic minds of our children, we can a few of the toothpicks in the dye not expect them to be contented and fluid, it will add wonderfully to the athappy if never allowed to indulge in tractiveness of them for the children's playthings, as it is natural for children to love bright objects.

Mother's clóthespins may also be pers. Of course, it makes mothers used in the same way. If the fences more work but it does not make a dis- and buildings are made of these and cows and horses furnished in the form er amusement is clean. They both of empty spools, the child's enjoyment can hardly be over-estimated.

A little girl is never so happy as when "helping mother," even though her help is a bother. My mother used to give me a bit of her bread dough whenever she baked and I was allowed to care for the dough and then make was a great help to me in making me observant of the methods used in. housework, and I was more willing to help mother when I was old enough to really be of service.

HOW TO MAKE BREAD WITH A MIXER.

HAVE used a bread mixer since six years ago last fall. I have a family of eight to cook for, mostly boys, and honestly, I don't know how I would manage without it. I bake twice a week, making seven loaves and two pans of plain buns each time. I have a measure for the liquids and a scale to weigh the flour. Of course, there is a difference in flour, but one can soon tell how much to use. If the dough looks sticky add a little more flour and knead again.

Bread Recipe. At dinner time, save one quart of potato water, put two tablespoons each of sugar and salt in a gallon crock and pour on the hot potato water. Mash real fine a good cupful of potatoes and add to liquid. When lukewarm add a cake of softened yeast foam and flour to make a nice pancake batter. Cover and let rise. Just before bedtime put one table-

spoon of lard in your mixer and pour on it one quart of boiling milk. When lard has melted put in one quart of If the child is inclined toward a water, cool enough to make milk lukeliking for books he should be given warm, then add yeast mixture and ten every opportunity to develop along pounds of flour. Now put on your this line. It is the early training that kneading rod and turn the crank until forms a good foundation for his school flour is all mixed in. If dough sticks training. He will spend many busy to finger add a little more flour and hours making himself acquainted with knead again until dough is nice and the characters in his picture book that smooth and does not stick to side of will help in forming his early impres- mixer. There is a great difference in flour and some you use more of than others.

Cover the mixer with a cloth, put on cover, and either set in a warm place or cover warmly for over night. In the morning knead down well then put in pans. Let rise as usual, and bake. This makes nine loaves. One can The old-fashioned spool knitting is divide the recipe .- Mrs. J. L.

When patching a torn place in the strings are saved, tied together and wall paper, tear instead of cutting the

Use this Department to Help Solve Your Household Problems. Address all Letters to Martha Cole, Michigan Farmer, Detroit, Mich.

HOME-MADE CANDIES.

(white), half cup of brown sugar, half solved. Remove from the fire and cup of light corn syrup, half cup of gradually pour the syrup over the egg cream, one cup of milk, quarter cup of whites, which have been beaten stiff. butter, two teaspoons vanilla. Put all Beat during this operation, and add ingredients except vanilla-into a sauce cocoa and beat until the candy will pan and cook, stirring constantly, until hold its shape when dropped from a a soft ball is formed when dropped in spoon. Add vanilla and nut meats and cold water. Remove from fire, add mix thoroughly. Drop by spoonfuls vanilla and turn into slightly greased on waxed paper, or turn into greased pans. When cold remove from the pan, pans and cut into squares. eut into squares and wrap.

Chocolate Caramels.-One cup of sugar, half cup of light corn syrup, half cup of condensed milk, quarter cup of cream, half cup milk, three for vanilla caramels.

third cups sugar, two-thirds cup light prove it any .--- C. D.

SAVE TIME MAKING RUGS.

I WAS very much incention, as cent ar'icles on rug making, as "WAS very much interested in re have made about all the different a hook. A hook is all right for coarse

My Favorite Recipe

O UR tastes, likes and dislikes are all variable. We each have something we like better than we do something else. It wouldn't do for us all to like the same thing, for then there would not be enough of that same thing to go around.

Every housewife has her favorite recipe which she believes surpasses others in its fine qualities.

For the best letter containing your favorite recipe, be it for pudding, cake or meat dish, we will give an aluminum preserving kettle. The second prize will be an aluminum serving tray, while the third, fourth and fifth prize winners will receive aluminum sauce pans.

Address your letters to Martha Cole, Michigan Farmer, Detroit, Michigan, before March 16.

rugs, but to have a nice neat rug the machine can't be beat.

I wonder why some will go to so much trouble to use old-fashioned dyes which take saveral hours to color rags. The commercial dyes are so handy to use. I am always looking for short cuts and time-savers in all my as I am a busy housewife myself.-Mrs. B. F. S.

HOUSEHOLD HELPS.

January sales over, I have quite a bit season well with salt and pepper and more money than at any other time in cover with a rich biscuit crust. Bake the year. So I buy one thing that will in a moderately hot oven till nicely lighten my work. Last year it was a browned, and serve piping hot, with a butter worker and bread mixer, this light pudding for dessert. This is too year a cake mixer and pressure cook- hearty to be followed by a heavy deser. I also buy as many extra staples sert.-Mrs. E. M. A.

corn syrup, half cup of water, quarter teaspoon of salt, two egg whites, one-Can you please publish a good reci-pe for making home-made candy, such as chocolates, caramels, etc.?—Mrs. D. salt and water into sugar, corn syrup, salt and water into some or some or sold water into a sold w salt and water into a sauce pan and Vanilla Caramels .-- One cup sugar, cook until the sugar is completely dis-

CAN YOU TELL?

Could anyone inform me how to squares of chocolate, one teaspoon of clarify old lard that has become ranvanilla. Follow cooking directions as cid? I have added a tablespoon of soda, and raw potato to a gallon of Chocolate Divinity .--- Two and one- lard, and reheated it, but it did not im-

> such as rice, soap, spice and cornstarch as I can afford. When summer with its extra expenses comes, I have some things ahead.

Another thing I have is two pairs kinds of rugs described, for many of curtains for each window downyears back. I was surprised that no stairs. How often we know we should one mentioned the handy little rug ma- wash the curtains but there is so much chine which every housewife ought to to do that we just put it off and then more even, finer and faster than with carload of in-laws and some of their Think of the relief of having clean you Buy this Spring friends are coming for the week end. curtains to slip on the poles.

> When I have a lot of hemming to do I sew the ends of the different articles so that when I begin I have a continuous seam. This does away with the little notch at the beginning of each article.

> I always read the daily paper, no matter how busy I am, and I always spend fifteen minutes with my music. Let's keep from being farm drudges as some seem to think we are .-- M. M.

> > TESTED RECIPES.

Peach Whip.

Soak one tablespoon of gelatine in cold water

Whites of two eggs One cup cold water

One-third cup sugar.

Dissolve the gelaine over hot water and mix together the sugar, peaches cut in small pieces, and water. Add the gelatine and let stand until the mixture begins to harden then add the unbeaten whites of eggs. Beat until white and frothy. Fill sherbet glasses with the combination and garnish with slices of peaches. Serve plain or with whipped cream or custard. Mystery Meat Pie.

Fry half a dozen slices of pork until nicely browned, cut up fine, remove from pan, fry one minced onion in the grease, and put with the pork. Now make a good milk gravy in the same pan. Have a quart or more of raw sliced potatoes ready, put a little pork drippings in the bottom of a deep baking dish, add a layer of potatoes, sprinkle with the pork and onion, WITH the hens laying well and the dress well with gravy, add the balance cows freshening, and with the of the potatoes, pork, onion, and gravy,



This Catalogue will bring have. One can make a rug so much like a bomb, we get a letter that a you a Saving on Everything

Millions of people will this Spring save money on everything they buy from this Catalogue.

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Heals—Seldom Leaves a Scar

any a valuable animal has en saved disfluring blem-nes by Corona Wool Pat. Cor-ta is made from oil extracted on the wool of sheep—it is rry penetrating — the only penetrating — the only reset abot-res is will not burn es ther-very solding and healing.

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14 Cerena alock

can of Corona and in the barn as a lent "first aid" remedy nd wounds of man or be



By the Prize Winners

By Edna McIntyre, Kawkawlin, Michigan, R. 1.

As Washington's birthday draws cordingly. near it is very easy to thing of many ways in which he can help us to be about the cherry tree and Washingbetter Americans. His life gives us ton's little hatchet? I have made a many examples of truthfulness, hon- firm resolution to abolish "lie telling," esty, bravery and willingness to work. whenever I think of little George The best lesson I have learned of Washington, who, by being upright, Washington is from his love of truth. honest and truthful, became the first everyone knows the story of the president of the United States, the cherry tree and of the time he took a "Father of our Country." beautiful colt to ride on and rode so



That Comic Valentine from Harold Wilcox, Sandusky, Michigan.

fast that the poor thing killed itself jumping. How he must have hated to tell his mother. But, however easy it might have seemed to get out of the scrape without blame, he told all.

George was just a lad of sixteen when he surveyed a piece of swamp and wooded land. This should help to make one have ambitions. "Was it an easy piece of work?" you may ask. Indeed it was not. To think of this always helps me when I feel like giving up when I have a task I do not like.

There are many instances given in histories, readers, magazines and books of all sorts showing his bravery and winning him the title of the "Father of His Country." He was a gentleman at all times, as the president of this or any other country should be.

Would Washington give up if he didn't like his job, or if he found it hard? No, indeed, he did not, but stuck to it and did his very best. That is why he became president at that time, when the country needed everything. He also was a farmer and a sportsman, overseeing his large farm which stretched ten miles along the river. He was an inventor, making his own tools. Such was our first president, born February 22, 1732, in Virginia.

By Robertha Bisson, Hubbell, Mich. I have learned lessons from Washington's life that have helped me the much. His perseverance in all of his undertakings, is one of the lessons I have tried to follow. For instance, when I study geometry, I try to do as he did usually, "sticking" to it until the most important proposition has been proved. 'Also, when practicing my music lesson, if there is some dif- R. 7. my music lesson, it there is built it is Conficult measure, I keep at it until it is Con R. 2. mastered.

not haughty" in disposition. If one of make this department a live wire, the the greatest men in our country was more fun we will all have. Don't you not haughty or proud, why should I think so?-Uncle Frank.

be so? I hope to remember, forever, his friendliness to all, and to act ac-

And who has not heard the story

WASHINGTON CONTEST WIN-NERS.

THE two Washington essays given above are the first and second prize winners. They will receive pencil boxes for their prizes. Because of the lack of space we cannot print the other winning essays, but give below the names of those who won and the prizes they will receive.

Many lost out because they did not follow the regulations of the contest. They gave a sketch of Washington's life instead of telling the lessons they learned from the life of Washington.

Clutch Pencils. Marion E. Shaw, of Armada, Mich., R. 2. Norbert Schneider, New Lothrop, Mich.

Read-and Win

THINK it is about time for another Read-and-Win Contest, so here it is. The answers to the questions will be found in this issue. When you find the answers make them short and not in sentence form. Also, give the number of the page on which you found the answers. The ten most correct and neat papers will win for their writers as follows: The first two, pen-cil boxes; the next three, nickled pocket pencils, and the next five, Michigan Farmer maps of the world and New Europe.

This contest closes March 8. Address your letters to Uncle Frank, Michigan Farmer, Detroit, Michigan.

1. What is the estimated annual loss from hog cholera? 2. What is Michigan's estimated consumption of English walnuts?

3. From where does England get forty per cent of its butter? 4. If the dough looks sticky, what should one do?

5. When should you use caustic soda or lye in emulsifying oil for spraying?

6. What is the cost per year of keeping a cow? 7. When is gasoline highly

explosive? 8. How much less did it cost to grow spring wheat in 1922 than in 1921?

9. How many miles does the sun come to kiss the grass?

10. What weight capon does the consumer like the best?

Margaret Stephens, Freesoil, Mich. Maps. Francis Ivicic, Rosebush, Mich., R. 2. Vera Turner, Akron, Mich. Dorothea Swayze, Holly, Mich. Iva Phillips, of Mt. Pleasant, Mich.,

Cornelius DeKorne, Jenison, Mich.,

Another lesson is his charity and I think we can get the most enjoykindliness to all. No person should ment out of things by making them be unkind to another person, and i enjoyable to others. That is the basis always try to follow this example. upon which we are working in this We read of his being "reserved but department. The more there are who



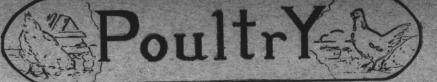
Hundreds of Customers Report Big Profits



Raise Good Stock and Reap a Golden Harvest We don't boast on a few high record birds but our extraordinary flock's average has at-tained our present high s'andard. Intelligent chick buyers look for these qualities and we assure you we have them. Get our 1923 large catalog now, it's free. Wyngarden Hatchery, Box M. Zeeland, Michigan

The state of the second





DUST BATH IN WINTER.

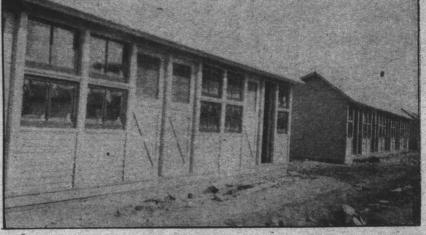
EAVES make light scratching material better than straw, and it is surprising how large a quantity of dry leaves can be stored into a couple of two always present to spoil the looks barrels or a large box.

Some farmers save dry earth for their hens' winter dust bath. This the chicks and 300 to the brooder is is work that does not take much time safer than using larger flocks. Profesand it is certain that hens need a sor Kilpatrick believes chicks should chance to dust themselves fully as be started on a low protein feed. It much in winter as in summer. There should also be low in fiber content but was a time when farmers didn't take high in hone phosphates. It must conmuch stock in the winter dust bath, tain vitamines. and one winter when the dust box was empty for quite a while, and was filled chick is very delicate and too much again with loose dirt found in a shed fiber or protein may clog the system. during a warm spell, the way in which In raising chicks it is first necessary those hens tumbled over one another to build a good frame and the bone-

plumage and deep round bodies. . Dislocate the necks of the poor chicks and remove the menace to the flock. It pays to keep on culling as the chicks grow, and not have a cull or of the remainder of the flock.

In artificial brooding do not crowd

The digestive apparatus of the baby



One of the Coops at the Agricultural College where the Michigan International Laying Contest is Being Held.

opened our eyes to their needs in this bone meal and milk. In Wisconsin a respect. They were simply wild to get white corn ration did not prove as into dirt and make it fly. Some say good as one of yellow corn. The that hens will not use this dust bath breeding stock on white corn produced in winter after it is provided, but ex- chicks of reduced vigor. Canned toperience taught differently. It is said that coal or wood ashes

placed in a dust box will cause scaly lacking in white corn. Dry feeding leg. This is a mistake, but no doubt saves time in raising chicks but a the dirt is better than ashes for a dust moist mash is useful when chicks are bath.-W. E. McMullen.

CARE OF BABY CHICKS.

I N the absence of Professor Graham, of Guelph, Ontario, Professor Kilpatrick, a director of the International Baby Chick Association, gave the poultrymen at the Round-up some good pointers on chick raising. He finds that the three essentials to success in raising poultry are a good chick, a good chick is pure-bred and bred for a definite purpose. Production should come first, plus all the standard qualities that can be obtained. The largest sales of breeding stock in the future will be made by the breeders who combine production and standard qualities. The good egg for hatching should

have size, and eggs weighing about twenty-seven ounces to the dozen are recommended for the production of large chicks. Chicks from hens' eggs are the best as the pullets lack maturity. Professor Kilpatrick states he would rather have two chicks from hens' eggs than three from pullets' eggs.

He finds that too high temperature is sometimes used in artificial incubation in order to bring the chicks out roosters. on time. It should not be necessary to use a temperature of 105 degrees to get them out. A chick must be ket for them in the late winter and strong enough to get out of the shell spring months when spring roosters for itself and immediately show vim, become too coarse for roasting, but vigor and vitality. The best chicks have short heads, wide shanks, long right kind of stock .-- J. H. Cutcheon.

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This Big

Size only 52

250 Egg

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wanting to roll in the dirt at once, making material comes from bran, matoes have been found useful to provide the vitamines which seem to be being forced to broiler size.

CAPON MARKETING.

DOULTRY raisers who produce capons for market should use judgment as to the breed of chickens used for this purpose. Leghorns and similar small breeds, which are essentially egg layers, should not be used, as they do not sell for enough advance over good brooder and a good ration. The the price of spring roosters to make it a paying proposition.

> Capons produced from Plymouth Rocks fetch the highest price and they take on enough weight to pay for the feeding. Rhode Island Reds are also good for this purpose, in fact, any large sized breeds are the best.

> When consumers buy capons they generally want birds which will weigh from seven pounds up. Leghorn capons do not reach this weight and they consume as much feed as the larger birds

> Heavy capons sell from four to seven cents per pound over the price of spring roosters, while as before mentioned, the Leghorn capons bring about the same price as the young

> The demand for capons is growing every year and there is always a marthe producer should start with the



Barron Strain White Leghorn chicks exclusively. Big husky chicks from heavy laying, farm raised stock. Hillview Pullet Farm, Zeeland, Mich

Additional Poultry Ads. on Page 319

MARCH 3, 1923.



Dairy Farming

Hay at \$62.00 Per Ton By S. P. Sexton

dairymen everywhere, is that of bought. buying feed. One man will tell you it does not pay; another will say he can afford to buy some grain, like returns until at this time he has reachcottonseed meal or oil meal, but that he cannot buy other grains.

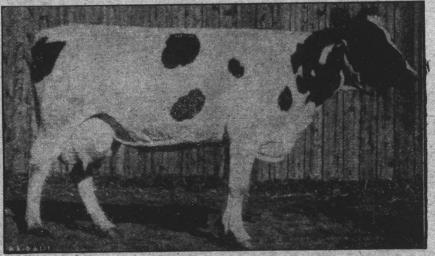
what we will call average cows that will not pay to buy feed for. The average cow gives less than 4,000 pounds of milk, and I find the cost of keeping frequently, and I might make a general a cow close to \$100 per year; so, from a fat-producing standpoint, the average cow is a losing proposition.

I should like to offer in evidence the work of a twelve-cow herd that aver- his production and the condition of his ages 360 pounds of fat per cow for stock governs his buying, and when the year. These herds are not very plentiful, it is true, just twenty per cent of the herds in our association before this shop question is closed. made that figure last year, but it Not only are feeding questions dis-

QUESTION much discussed by sold as unprofitable and three were

For the present year Mr. Case has shown a steady improvement in his ed \$3.13. This is the high point when off grass, and gives rise to the state-There are a great many herds of ment of selling hay at \$62 per ton. It also shows oats to be worth \$1.00 per bushel and corn \$1.87.

"How does he do it?", is asked very statement that he watches his cows, and that "includes the lookout," as the sailors say. He keeps in touch with the market prices of various feeds and the tester comes these things are talked over and it is often a late hour



Ellen White Rose, Owned by G. W. Ridgeman, of Vassar, Michigan.

what must be done if we are to con- management and future policy. tinue buying automobiles and have any money left to paint our barns and houses and send the children to col-' rience as a school teacher make her lege.

The herd of B. N. Case and Dr. Stiles was assembled in 1919 and was composed of such cows as appealed to Mr. Case, who, while he was raised on the farm, had never made a particular study of the cow, end of the business. Sixteen head were bought, and in a year they were reduced to ten through various causes. In the fall of 1920 Mr. Case and Dr. Stiles went to the National Dairy Show and were so impressed with the showing made by the Jerseys that it was decided to stick to that breed. On coming home, they visited a pure-bred herd and bought four bred heifers and a half interest in a good bull. In 1921, Mr. Case joined the cow-testing association. From that time to the present covers a pe- begin March 1. This movement conriod of nineteen months, of which I write.

For instance, in February, 1921, the returns for each dollar expended in feed was \$2.00. In March it was \$1.99. Then a change was made in the ration, and with spring weather coming on, the returns went to \$2.36; and there was an upward tendency for the is my observation that we must secure a return of about \$2.00 for each dollar's worth of feed to come out; so if we get \$2.67 we have really made some profit.

changes made in the herd. Two were clean the roads of snow,

shows what can be done, and it is cussed, but the larger question of farm

Here Mrs. Case proves herself a valuable partner. Her training and expequick at getting the gist of a situation, and it is not unusual for her to be firts in solving a problem.

It does one good to see such team work as this. It cannot help but bring success. And I often think of the lines of Whittier:

"More often may we see the troth Of fact and fancy plighted And culture's charm and labor's And

strength In rural homes united."

DAIRY REGISTER OF PROFIT.

COOPERATIVE movement on the part of thirty cow-testing associations in the state and the dairy extension department of the college will sists of a registry of profit which will entitle cows making over \$125 a year profit to registry by the new organization. The only requirement is that the cow belong to a regularly organized cow-testing association.

Standard feed prices and standard milk prices will be used as a basis of computing the profit figures. The average price of grade-A milk of three age returns for each dollar spent for and one-half per cent test for the first feed for the entire year were \$2.67. It of each month in the following cities Lansing, Saginaw, Kalamazoo and Marquette.

You will usually find the man who During the year there were some likes to read the first to be ready to calf result.

Sold by feed deal-ers, seneral stores, dramite-\$1,25 and for supplied we will not supplied we will not supplied we will neer poetpaid, on receipt of price, 21-page book. "The Home Cow Soctor" The Home Cow Soctor

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Golden June Shade and Costs

Really Nothing. Read!

Before churing add one-half teaspoon-ful to each gallon of cream and out of your churn comes butter of Golden June shade to bring you top prices. "Dandelion Butter Color" costs nothing because each ounce used adds ounce of weight to butter. Large bottles

cost only 35 cents at drug or grocery stores Purely vegetable, harmless, meets all State and National food laws. Used for 50 years by

all large creameries. Doesn't color buttermilk

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Complete Beginner's Outfits with or without bees, Full line of Bechives, Sections, Comb Foundation, Smokers, etc., 'General Agents in Michigan for the A. I., Root Co. Send for 1923 catalog. Beeswax Wanted.

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BEES

EFFICIENT FARMING IN DEMANDI

(Continued from Page 291) Take no chances with your valu-able cows at this serious period. There's no need of it. If the cow's health is fully up to par, nature will do the rest. Two weeks before calv-ing and about three weeks after, feed the cow a tablespoonful of Kow-Kare morning and evening. Her health will be assured and a strong calf result. of production would justify them to hire a skilled butter-maker and produce a large quantity of high-quality butter. Even if the smaller farmer's butter was gathered up through the local village store and the Danish exporter brought it on the English markets, it was not a large shipment of a calf result. Kow-Kare acts directly on the genital and digestive organs, making them strong and active. Disease has no chance to get a foothold. Kow-Kare is a sure, safe remedy-for the allments of milking cows, Barrenness, A b o r t i o n, Retained Afterbirth, Scours, Milk Fever, etc. uniform grade, but a shipment of small batches of butter, each. batch coming from an individual farm, some good and some bad. In fact, the butter marketed by the smaller farmer brought about twenty-five per cent less than that marketed at this time by the large estate producers.

> Then came the development of the cooperative creameries-the first real step in the direction of agricultural cooperation in Denmark. A marketing situation, the need of standardized, high-quality dairy products prompted the small farmers in 1882 to form the first cooperative creamery. Established on a sound economic basis, its success and popularity soon spread to all sections in the little kingdom. It provided a basis for the rational handling of milk from several hundred cows kept on a hundred or more different farms. Already in the nineties a uniform grade of high quality butter was manufactured in the cooperative creamery which even surpassed the butter production on the large estatefarms with two or three hundred cows.

I was further impressed with the significance of this movement when I found that the larger estate farmers have now joined the cooperative creamery. Today, ninety per cent of the total milk production in Denmark is delivered to the cooperative creamery, which number has reached about 1,400. Thus cooperative butter manufacture, together with a study of the needs of the market and the manufacture of a high quality product, and enough of it to warrant proper merchandising of the product, is responsible in no small measure for the enviable position which Denmark occupies in the dairy world.

But cooperative effort in Denmark is not confined to the dairy industry. More than eighty-five per cent of the bacon is slaughtered at cooperative bacon factories. The cooperative egg exporting association does a large business and is comprised of 550 auxiliary units.

The strength of the cooperative work in Denmark lies in the fact that it is built from the ground up. That sounds academic, the necessity for it is being constantly urged upon the farmers here in the United States. Nevertheless, the strength of the local societies is responsible for the success of the federated effort. But the rural economy is different in Denmark than in this country. Education and rural culture is the fundamental basis on which this system of rational farming and its cooperative features rest.

The people's high schools, an adult university for farmers' sons and daughters, which have been characterized by renowned educators as "The Schools that Made Over a Nation," have played an important part in building this rural education and culture. There are about seventy of these and the farmer's sons between the ages of eighteen and twenty-one years attend them and more than ninety per cent of the leaders in cooperative societies have at one time attended' these schools. There are also twenty-seven lower agricultural schools where prospective young farmers attend. More than eighty per cent of these students return to the farms.

Says Sam: All work and no play makes Jack a city boy.



DE LAVAL CREAM SEPARATOR PRICES

A word about De Laval Cream Separator prices to prospective 1923 purchasers is pertinent at this time.

De Laval prices were reduced last year to practically the pre-war level, allowing for increased capacity and other improvements made meanwhile.

This reduction was made in anticipation of a further reduction in labor and material costs. The reverse has happened. Labor and material costs are going up rather than down.

If they continue to do so De Laval prices will have to be advanced. They are now too low. The economies possible through greatly increased production can alone permit of their remaining so.

In any event, De Laval prices cannot be reduced. They may easily have to be advanced at any time. The safe thing to do is to buy now and take no chances.

This is the more so by reason of the fact that 1923 De Laval machines are even better than ever before, that dairying was never more profitable, and that no one having use for a cream separator could ever less afford to be without the best or to continue the use of an inferior or half-worn-out machine.

Why not see your local De Laval agent at once or write us direct at the nearest address given below?





MONTGOMERY WARD & COMPANY Chicago Kansas City St. Paul Fort Worth Portland, Ore.

27 - 315





If so, We have them of Sept. farrow, not only showing extreme quality, but greater size than you will expect to find. Follow M 29 to Coldwater. Mich. Kope-Kon Farms, Coldwater, Mich.

Live Stock

HOG CHOLERA.

THERE have been several cases of hog cholera in the Upper Peninsula during the past season, reports Dr. F. K. Hansen, assistant state veterinarian of the State Department of Agriculture at Marquette. He attributes these outbreaks to the careless use of garbage from hotels and other says Dr. Hansen, is the double immunization of bogs, and keeping them so. The cost of this in comparison with the losses due to cholera is very small, he says. He estimates the annual loss from this cause to be fifty out of every one thousand hogs raised. Dr. Hansen' stands ready to assist farmers who have cases of hog cholera among their hogs. His office is in the Bacon Block, Marquette.

1923 WOOL POOL PLANS.

N formulating plans for its 1923 pool the Michigan State Farm Bureau Wool Department has kept foremost in mind the necessity of reducing the overhead expense, or handling charge. As a step in this direction it has therefore been decided to have all wools graded at a central warehouse at Lansing instead of grading at local assembling stations, as was done last year. However, a sworn weighmaster will accept wools at the local assembling stations on di les to be announced later and will give on date of pooling a receipt entitling the grower to the usual cash advance.

Indications are that the 1923 pool will be considerably larger than the one in 1922. Preparations are being made to handle well over a million pounds. This being the case, there is every indication that the handling charges will be considerably reduced. Early returns were made in 1922 and indications are that those who stood by the pool during the past year profited thereby and will be loyal boosters this season.

Wool markets are in a very healthy condition at the present time and while considerable effort has been put forth to contract wool on the sheep's back, very few of the wool growers have consented to this. Western clips which, during the past year were sold at forty cents are being held as high as sixty cents this season.

Wool growers shearing early and desiring to place their wool in the pool will be furnished wool bags upon request to the Farm Bureau Wool Department and they can ship their wool direct to Lansing any time after March 1. Growers anticipating pooling at the local assembling stations and desiring to sack their wool at time of shearing will be furnished sacks upon request.

It is with no small satisfaction that those in charge of the 1923 pool announce that they have just closed a contract with Squire Robinson to have charge of all the grading. Mr. Robinson has held this position with all the previous pools and has won the confidence of the woolen mills. His grading is accepted without argument.

The cooperation of every wool grower in the state of Michigan is needed in order to make the 1923 pool one hundred per cent efficient and reduce the handling charge to the very minimum.-S. M. P.

DAMAGE BY SCRUB BULL.

If a neighbor's scrub bull breaks in with my valuable thoroughbred cattle and gets my heifers with calf, how can I come on him for damages?—J.

The owner is liable in an action on the case, for the damages to be assessed by a jury.-Rood.

MARCH 3, 1923.

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GRAIN QUOTATIONS Tuesday, February 27.

Wheat.

Detroit.—No. 2 red \$1.37; No. 2 mix-ed \$1.35; No. 2 white \$1.37. Chicago.—No. 2 red \$1.33@1.35; No. 2 hard \$1.15¹/₄; May \$1.18⁵/₈. Toledo.—Cash \$1.37@1.38. Corn. Detroit.—Cash No. 2, 79c; No. 3 wellow 770

yellow 77c. Chicago.—No. 2 yellow 73@73½c; No. 2 mixed 72¼@73c. Oats. Detroit.—Cash No. 2 white at 49½;

No. 3, 48c. Chicago.—No. 2 white at 4434@ 451/2c; No. 3 white 4234@44c. Beans.

Detroit.-Immediate and prompt

Detroit.—Immediate shipment \$7.70. Chicago.—Choice hand-picked Mich-igan beans \$8.25; red kidneys at \$8.50. Rye. Detroit.—Cash No. 2, 87½c. Chicago.—83¼c. Toledo.—Cash 91c. Seeds. Lipit.—Prime red clover cash at troit.—Prime red clover cash at

Seeds. Detroit.—Prime red clover cash at \$12.95; April \$12.25; alsike at \$10.40; timothy \$3.30. Toledo.—Prime red clover cash at \$12.95; alsike at \$10.45; timothy cash at \$3.30.

Hay, Detroit.—No. 1 timothy \$16@16.50; standard \$15.50@16; light mixed at \$15.50@16; No. 2 timothy at \$14@15; No. 1 clover \$13@14; rye straw \$11.50 @12; wheat and oat straw \$11@11.50 per ton in carlots.

Feeds. Bran \$37; standard middlings \$37; fine do \$38; cracked corn \$36; coarse cornmeal \$34; chop \$30 per ton in 100pound sacks.

Fruit. Apples.—Jonathans \$6.50 a bbl.; Kings \$6; Northern Spies \$5@6; Greenings \$5.75; Wageners \$4@4.50.

WHEAT

The wheat market remains a puz-zling affair owing to the predomin-ance of speculative operations over normal influences. Since these operations have been mostly on the buying side they probably maintained a high er level of values in the last two months than would have been the case otherwise, but they make the future course of prices highly uncertain as there is no telling what speculative cliques will do or when their tactics

cliques will do or when their tactics will change. Taken the world over, the wheat market has a rather bearish tinge and has had for the last eight or ten weeks. The world's available supply in commercial channels is much larger than last year and is of near record size for the corresponding peri-od. In the United States there is more or less congestion at eastern lake ports including some Canadian wheat because of the slack demand for export. With no sign of scarcity anywhere and their finances crippled, European countries are buying only for immediate needs.

CORN

CORRN The falling off in Argentine exports of corn and the resumption of buying in the United States were reflected in the largest clearances from Atlantic and Gulf ports last week since the middle of November. The Argentine crop has been helped by rains recent-ly but Argentine prices remain higher abroad than for American corn. Do-mestic demand is fairly good with feeders and industries out-bidding terminals in some sections. Primary receipts have deeclined and the heavy winter movement is believed to be over although a moderate increase is expected in the next two weeks. expected in the next two weeks.

OATS

The oats market is holding fairly well as the price is low compared with corn and receipts at primary markets have dropped to the smallest figure since last July.

SEEDS

Clover seed prices are fluctuating over a narrow range with a prospect of a modest advance in the next month when the spring demand de-velops. While the last crop was a generous one, the seed trade expects that there will be no unusual carryover.

FEEDS

Linseed meal and hominy feed are slightly lower but bran and middlings are the highest of the season with demand mostly for prompt shipment. Wheat feeds for future shipment are quoted at sharp discounts probably be cause of the approaching rise of grass.

HAY

Continued light receipts and active demand are holding hay brices firm with slight advances at a few points. Low grades especially are moving more freely. Bad roads are keeping down country loadings. Receipts of alfalfa have increased in the south-west and prices have weakened.

BUTTER

Butter prices retained the recent ad-vance throughout the past week. Pro-duction has been curtailed by severe weather as shown by reports from creameries and some of the butter shipped has been delayed in transit. The effect was not as large as ex-posted however and sumplies on all pected, however, and supplies on all pected, however, and supplies on all markets were ample to take care of the demand. An "oversold" market for February delivery has been re-sponsible for high prices upon central-ized carlots at Chicago putting that market out of line with eastern points. Dealers who sold "short" have been unable to obtain enough butter to fill unable to obtain enough butter to fill contracts owing to reduced production and smaller receipts. This influence will pass at the end of the month. Prices on 92 score fresh butter were: Chicago, 52½c; New York, 52½c. In Detroit fresh creamery in tubs

sells for 50@51c.

POULTRY AND EGGS

The advance in egg prices as a re-sult of cold weather since February 5 has been well maintained although receipts for the month have been than two weeks ago and are but lit-

heavier than in February last year. Storage eggs have passed into history. Prices are apt to hold fairly well until production increases again as a result of warmer weather but they are pro-bably 8 to 10 cents above a basis that will attract extensive storage buying. Receipts of dressed poultry in Feb-ruary at the four markets were about

50 per cent heavier than in that month last year so that but little reduction has been made in storage stocks whereas last year they declined about 11 per cent.

Chicago—Eggs: miscellaneous, 34@ 34¹/₂c; dirties, 28@30c; checks, 27@ 28c; fresh firsts, 35c; ordinary firsts,

28c; fresh firsts, 35c; ordinary firsts, 32@33c. Live poultry: Hens, 23c; springers, 24'½c; roosters, 17c; ducks, 23c; geese, 16c; turkeys, 25c. Detroit.—Eggs: Fresh candled and graded, 37½@38c. Live poultry: Heavy springers, 27c; light springers, 22c; heavy hens, 27@28c; light hens, 24c; roosters, 17c; geese, 20c; ducks, 29c 28c.

POTATOES

Much lighter shipments from pro-ducing sections in the last ten days as a result of cold weather have peras a result of cold weather have per-mitted potato prices to advance. Lead-ing city markets have gained 5 to 15 cents but prices still are abnormally low. Northern sacked round whites are quoted at 90 cents to \$1.25 per 100 pounds in midwestern markets and 60 to 75 cents f. o. b. shipping points. Eastern cities and eastern producing points quote much higher prices than in the middlewest where the exces-sive storage stocks are mostly located. The early potato acreage in the south-ern states is 25 to 30 per cent under last year. last year.

Live Stock Market Service

Wednesday, February 28.

DETROIT

Receipts 360. Market slow and 50c lower than last week's close. Best steers\$ 8.25@ 8.50

 Light butchers
 5.00(@) 5.50

 Best cows
 5.25(@) 5.75

 Butcher cows
 4.25(@) 4.50

 Common cows
 3.00(@) 3.50

 Canners
 2.50(@) 3.00

 Choice bulls
 5.50(@) 5.75

 Bologna bulls
 5.50(@) 5.75

 Stock bulls
 3.75(@) 4.25

 Feeders
 6.00(@) 6.50

 Stockers
 4.75(@) 6.00

 Mikers and springers
 \$40.00(@) 70.00

 Vaal Calves
 40.00(@) 70.00

5.25@ 5.75 4.25@ 4.50

Veal Calves. Receipts 575. Market slow, closing weak to 50c lower. Tuesday's decline \$3@3.50 lower than last week's close. Best\$13.00@13.50 Others 5.00@12.00

Sheep and Lambs.

Receipts 740. Market	steady.
Best lambs	.\$14.25@15.00
Fair lambs	
Fair to good sheep	. 6.50@ 8.00
Light to common	. 9.00@12.00
Culls and common	. 2.00@ 4.00
Hogs.	1 2 4 2 4 2 2 2

Receipts 2,780. Market 10c	lower.
Mixed hogs	8.50
Yorkers	8.50
Heavies 7.	75@ 8.00
Stags 4.	00@ 5.00
Pigs	75@ 8.00
A STATE OF A DESCRIPTION OF A DESCRIPTIO	States and the

CHICAGO Hogs.

Estimated receipts today are 23,000; Estimated receipts today are 23,000; holdover 10,918. Market is slow—5c-10c lower. Bulk of sales $$7.70 \oplus 8.25$; tops \$8.35; heavy 250 lbs up $$7.85 \oplus$ 8.05; medium 200 to 250 lbs $$7.95 \oplus$ 8.15; light 150 to 200 lbs. $$8.10 \oplus 8.35$; light lights 130 to 150 lbs. $$8.00 \oplus 8.30$; heavy packing sows 250 lbs up $$7.00 \oplus$ 7.40; packing sows 200 lbs up $$6.75 \oplus 8.00$;. Cattle. Cattle. Estimated receipts today

11,000.

Market generally steady. Veal calves 25c lower. Beef steers, medium and heavy weight 1100 lbs up \$10.25@11.25; heavy weight 1100 lbs up \$10.25(@11.25); medium and good \$8.40(@10.25); com-mon \$6.75(@8.40); light weight 1100 lbs down \$9.75(@11.00); common and me-dium \$6.40(@7.75); butcher cattle, heif-ers \$5.50(@10.00); cows \$4.40(@7.75); bulls, bologna and beef \$4.50(@6.75); commons and utters gover and bolfers canners and cutters, cows and heifers, \$3.15@4.40; canner steers \$3.75@7.90; veal calves. light and handyweight \$7.75@11.75; feeder steers \$6.00@8.25; stocker steers \$4.50@8.00; stocker cows and heifers \$3.25@5.50.

Sheep and Lambs. Sheep and Lambs. Estimated receipts today 1500. Mar-ket steady. Lambs 84 lbs down \$13.50 (a)15.40; culls and common \$10.00(a) 13.50; spring lambs \$9.75(a)13.75; ewes \$6.50(a)8.75; ewes cull and common \$3.75(a)6.75; yearling wethers \$13.50(a) 15.40 15.40.

BUFFALO Cattle.

Receipts 8 cars; market steady; choice to prime shipping steers, 1,400 choice to prime shipping steers, 1,400 lbs. and up, \$9.50@9.75; good to choice shipping steers \$9@9.25; heavy fat, medium quality \$8@8.50; medium to good \$7.50@8; light native yearlings, fancy quality \$9.50@10; medium to good \$8.@8.50; best handy steers \$8.25@8.50; plain \$7@7.25; handy steers and heifers \$7.25@7.50; western heif-ers \$7@7.25; light Michigan butcher-ing heifers \$6.75@7.25; best fat cows \$6@6.25; medium to good \$4.50@5; cutters \$3.50@4.25; canners, good ing nenters \$6.75%, dest fat cows \$6@6.25; medium to good \$4.50@5; cutters \$3.50@4.25; canners, good weight \$2.25@2.50; common and old rims \$1@1.50; light fat bulls \$6.50@ 7; best heavy bulls \$5.25@5.50; heavy bologna bulls \$4.50@5; common bulls \$3.50@4; best feeders, 700 to 800 lbs., \$6.50@7.25; medium feeders \$6@6.50; stockers, good \$5.50@66 stockers, good \$5.50@6. Calves, \$14.00.

Hogs.

Hogs. Receipts, 50 cars; steady; heavy \$8.50; mixed \$8.65@8.75; yorkers \$8.75@8.85; pigs \$8.25@8.50. Sheep and Lambs. Receipts, 5 cars; strong; top lambs \$15.50, yearlings \$12@13.75; wethers \$8.50@9; ewes \$7@8.

tle above normal for this time of year. Prices are slightly higher than a week ago. Baldwins A $2\frac{1}{2}$ are quoted at \$5.25 to \$5.50 a barrel at Chicago \$4.75 to \$5.25 per barrel in most other city markets and \$4.25 to \$4.50 f.o.b. New York shipping points.

WOOL

WUOL The Department of Commerce re-ports a slight increase in the number of active spindle hours in woolen mills during January as compared with De-cember but a slight decrease in active worsted spindle hours. The goods market continues healthy and the American Woolen Company reports that all but two of its departments are sold to the limit and lines have been withdrawn. Such a situation suggests that heavy consumption will continue active right along.

DETROIT CITY MARKET

The weather has kept much produce off of the market. Apples, poultry and veal have been scarce. But eggs, on-ions and hogs seem to be in slow de-mand. Potatoes were in a little bet-ter demand and brought slightly bet-ter prices. Apples were bringing \$1@ \$3.00 per bu: celery, 15@50c per doz.; cabbage, \$1@2.50; carrots, 60c@1.50; eggs, 45@50c per doz.; dry onions, \$1.25@1.50; potatoes, 55@75c; live poultry, 26@30c per lb.; veal 21@22c per lb.; hogs, 12@15c per lb.

GRAND RAPIDS

GRAND KAPIDS The bean market was unsettled in Grand Rapids and western Michigan early this week as a result of the re-stricted demand from wholesale gro-cery and cannery sources. Bids to producers ranged from \$7.25 to \$7.50 cwt, as compared with \$7.75@\$8 a week ago. There is a feeling that jobbers are maneuvering to get con-trol of the crop now in the hands of growers as the statistical position of the market hardly warrants a break at this time. The market on eggs also was slightly unsettled due to mild weather but supplies from local sources were only sufficient to meet mild weather but supplies from local sources were only sufficient to meet the demand. Hatcheries are cutting heavily into the western Michigan pro-duction. Produce dealers here have revised their opinions about spring egg prices and instead of April and May eggs selling at 15 cents a dozen as they predicted earlier in the year, they now say they would not be sur-prised to see them around 20@22c. Packers may put away 12,000,000 cases this year as compared with 10,000,000 last year. last year.

DECLINE IN HOGS TO COME

Although the country still has many hogs, the spring decline in receipts is quite certain to occur in the next six weeks and bring higher prices with it. Domestic demand is not likely to con-tract and clearances for export con-tinue to exceed those of last year. The reported dullness in foreign trade seems to be giving way to more active buying especially of lard.

COMING LIVE STOCK SALES.

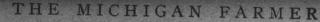
Aberdeen-Angus.

March 21.-Russell Bros., Merrill. March 8.-Alexander & Bodimer, Vassar.

Brown Sviiss Cattle. March 9-Elmer B. Hale & Son, Cale-

arch 9-Enn. donia, Mich. Holsteins. Evans

- March 6.—H. W. Evans and D. W. Fisher, Eau Claire . March 10—Musolff Bros., South Lyon. South Lyon. BLO
- March 13-H. F. Lewis, Elsie.
- March 16-Wm. H. Higgins, Vassar, Mich. See ad in next week's issue. Shorthorns.
- March 6-Everett Lyon, Ann Arbor. March 7-C. M. Bilhimer, Corunna.
- March 13-F. G. Pollock, Decatur,
- O. I. C.'s and Chester Whites. March 6-Everett Lyon, Ann Arbor. March 8-Alexander & Bodimer, Vas-
- sar.
- Poland Chinas. March 13—F. G. Pollock, Decatur, March 22.—Sonley Bros., St. Louis.





CONDUCTED BY DR. W. C. FAIR.

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

Mange.—I think my cows are both-ered with mange. Have applied kero-sene, but it fails to help them. M. D. G., Wayne County, Mich.—Apply one part sulphur, half a part of carbonate of notash four parts fresh lard to disof potash, four parts fresh lard to dis-eased parts three times a week. Give

eased parts three times a week. Give your horse acetate of potash. Periodic Ophthalmia—Loss of Vis-ion.—Following one attack after anoth-er of sore eyes for a period of two years my horse went blind. A film covers the eyeball. I have another horse showing parallel symptoms and I fear he may yet go blind, as a scum is forming on eyeball. J. J. S., Holly, Mich.—Blowing equal parts of calomel and boric acid into eye three times a week might help clear the eye. Brood Mares Perspire in Stable.— I have a team of mares with foal that sweat in the here. The stable is more

but well ventilated. I feed mixed hay, sixteen ears of corn daily, also some potatoes. W. M. R., Mt. Pleasant, Mich.—Your mares may have a heavy coat of bair and rau may have a coat of hair, and you may not let in sufficient fresh air into stable. Give each mare a teaspoonful of acetate of potash in feed or in drinking water

each mare a teaspoonful of acetate of potash in feed or in drinking water twice a day. Infected Udders.—Seven of my 11 cows have swollen udders, but only one quarter is very bad. I feed corn-cob meal, ensilage, bran, alfalfa and shredded fodder. F. B., Ypsilanti, Mich.—Rub the udder with camphor-ated oil. It is now too late to clear the quarters. If you ever have another cow that has udder trouble, don't for-get to milk her last, also remember she may have an infective ailment. Much more easy to prevent such ail-ments than to cure them. Abnormal Appetite.—For choice two of my cows will chew chunks of dirty wood, although they are fed plenty of silage, bean fodder, clover hay, corn fodder, ground oats, barley and bran. W. R., Almont, Mich.—Mix equal parts of powdered gentian, ginger, salt, and wood charcoal together, give each cow two or three tablespoons at a dose in ground grain three times a day

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two or three tablespoons at a dose in ground grain three times a day.



WHY RENT When you can buy a farm in the famous Milk River Valley on casy terms? This Valley was once the bottom of the Big Missouri River. Most productive soll in the world. If farmed well two crops pays for the land. Write for FREE illustrated booklet and latest price list. rice list. FABMERS' LAND EXCHANGE. Saco. Mont

MUST SELL to settle an estate 240 acre farm about 14 under cultivation. Bal-basement barn, shop, granary, hog and poultry house, med water, some fruit. Close to school and market 25.00 per acre for quick sale. GEO. MUNN, Executor, Blanchard, Mich.

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If You Want To Sell Your Farm Write. JEROME PROBST. Ann Arbor. Mich. Listen 40 A. imp. farm \$1200. Good terms. Other farms. McGrath. Mountain View. Mo. Farm Wanted Give description. cash price. R. E.

WHITE LEGHORNS-Tancred males 330-\$500 Pedigrees. Orpingtons. Guineas. Fenner Bailey. Montgomery, Mich.

S. C. BLACK MINORCA COCKERELS, Northrup strain, \$3 and \$4. Eggs for hatching and Baby Chicks. C. J. Deedrick, Vassar, Mich.

WHITE LEGHORN BABY CHICKS for delivery each Monday after March 1st. 100% live delivery guaran-teed. The Byron Hatchery, Byron, Mich., David Chaffee, Prop.

RICHARDSONS ROCKY RIDGE pure Park strain Barred Rock Baby Chicks, \$16 per 100. Hatching eggs \$2.00 per setting. Hanover, Mich.

DOGS Fox Hounds, Rabbit and Skunk dogs. All ages Coon Hound Pups. W. E. LECKY. Holmesville, Ohio



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