

Helping Mother

Read in this issue: "Can We Reduce Taxes, Yet Insure Receipts?"—"Growers Should Get 50c per Pound for Wool" says McBride—"Properly Prepared Lambs Bring Top Prices"—"How Shall I-Apply Fertilizer to My Corn Crop to Increase the Yield?"

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Current Agricultural News

RIVALRY MUST STOP, LEADING CATTLE BREEDERS AGREE

T a meeting called in Washing-A ton, February 5, by the Chief of the Dairy Division, United States Department of Agriculture, representatives of five dairy cattle breeders associations agreed to make A special efforts to suppress destructive rivalry and to work together in every way possible to develop the dairy industry and particularly the purebred dairy cattle business. The breeds represented were the Ayrshire, Brown Swiss, Guernsey, Holstein— Friesian, and Jersey. More than 20 representatives were here from various parts of the country, including the presidents of four of the breed associations and the secretaries of all five.

Resolutions passed at the confer-ence called attention to the need for more widespread testing for produc-tion records among breeders of pure-bred cattle; means of causing a wider distribution of purebred cattle; the recognition in counties and states of superior sires; rules gov-erning sales of purebred cattle; means of lowering the cost of recording animals in herd books; supervis-ion of production records; means of making the showing of cattle at fairs more educational to farmers and other visitors; rules governing public sales; scope of the work of field rep-resentatives of brad concipations. resentatives of breed associations; and other subjects concerning the conduct of breed associations and the furthering of the interests of purebred dairy cattle. The need of more support for tuberculosis eradi-cation by the area method was also cation by the area method was also emphasized.

BEET GROWERS ASS'N DIRECT-ORS MEET

VERY important directors meet-A ing of the Michigan Sugar Beet Growers Association was held February 23rd in Owosso at the Hotel Wildurmuth. The meeting was called to order by President Tom C. Price of Saginaw. A sworn itimized financial report

was presented by General Manager C. E. Ackerman in which it was shown that \$2,992.90 came into his hands from the 113 local organizahands from the 113 local organiza-tions in the state. The balance, \$1,156.72 after all bills were paid. handled directly by him, was turned over to Sec'y-Treas. R. P. Reavey of Caro, Michigan. A great many loc-als sent their money direct to Sec'y-Treas. Reavey which is not included in the above figures. A complete rein the above figures. A complete re-port will be made in Saginaw to the Growers at their annual meeting which will be called by President Price in the very near future. The recorded membership of the organization is around 10,000 members. Membership fees were \$100.00 each one-half of which was to be paid the state organization. Many locals have not as yet remitted their share and on this account the organization is hampered somewhat.

The new 50-50 contract was in-dorsed unaminously by the directors of the organization and a resolution. was passed in which all growers of beets were urged to give the Owosso Sugar Company their acreage for beets on one of their contracts, for beets enough to give them a full ca-pacity run this year. Being the first to rer gnize the principal of the 50-50 contract and their willingness to meet with this organization and iron out the details of sugar beet contracts all efforts will be made by this organization to assist the agricultural department of this company and any and all other companies that recognize the principal of the 50-50 contract for beets as the Owosso

Sugar Company has done. Mr. C. D. Bell, Sec'y & Gen. Mgr. of the Owosso Sugar Company was present at the meeting and explained their position to the directors in every detail to the utmost satisfac-tion of the board.

The meeting adjourned amid much feeling of good will and all express-ed their desire to do everything possible to co-operate for the general good of the sugar beet industry and will ask all farm organizations and farm papers to also co-operate in making this important step a success and of financial gain to the farmer and all industry connected with the

beet industry. This organization will get out circular letters to every member ex-plaining the new 50-50 cor fact in a general way and showing its merits and the importance of this great step in Michigan agriculture.

All local beet growers organiza-tions will be asked to co-operate and call meetings at which the state or-ganization will furnish speakers if possible to explain to the growers all, the details and answer all questions pertaining to all three of the con-tracts now offered. Since all banks and all chamber of commerce boards are directly interested in the welfare of the farmer and his welfare they also are asked to co-operate with this organization in their efforts to place great Michigan industry on a little firmer basis.

Since the U.S. imports three-fourths of the sugar it is one of the crops that cannot be over producted easily so long as Europe, where half of this sugar was produced, must devote their acres to producing grain to feed their hungry millions who have not the money to buy our excess crops of wheat, rye, corn, pork and potatoes, at prices that we can afford to raise them. It seems a few acres of beets may be a good investment for the farmer for 1923 and a good cash crop to chance especially since the consumption of sugar is increas ing rapidly and also the price is ad-vancing rapidly.-C. E. Ackerman, Manager, Mich. Sugar Beet Growers Ass'n.

MEXICAN TARIFF FAVORS WHEAT IMPORTS

DEMAND for American wheat is

A looked for throughout the Sal-tillo and other Mexican districts following the recent increased duty on imported flour. Flour rills of Saltillo, in spite of the fact that they are located in the heart of Northern Maxico's richest social Mexico's richest section, have been closed for some time on account of depleted stocks of wheat, says Vice Consul Earl W. Eaton, Saltillo, in a report just received by the Depart-ment of Commerce. The mills have not been buying in the United States on account of the hope that the Mexican of four centavos per kilo might be removed, this duty making it impossible for the mills to compete with flour from the United States bearing a Mexican duty of but five centavos per kilo.

U. S. STOCKMEN FACING BIVALS MERICAN agricultural interests A and farmers can expect real competition from Argentina in the next few years, in the opinion of A. M. McKinstry, vice-president of the International Harvester Co., who has completed an extensive tour of this country and Brazil. He said he found an increasing de-

mand for North American agricultur-al machinery in Argentina and felt that, aside from the low ebb in the

that, aside from the low ebb in the livestock industry, the farmers here were in as good condition as those in the United States. "I never saw such splendid Short-horn cattle," said Mr. McKinstry, discussing his trips to the big Argen-tina ranches. "They mean that sock raisers in the United States have serious competition. The same is true of the grain that they raise here. The soil in the grain country is similiar to that of Iowa, and the crops are immense. Argentina is developing some splendid farmers. They are coming along rapidly in adopting the most up-to-date farming methods.

"The Argentina corn crop has been quite seriously hurt by the intense heat this summer, and the wheat crop will fall short of early predic-tions."

EXPORT MARKET FOR U. S. PRO-DUCTS

Secretary Hoover announced last week that under appropriation made recently by Congress, the Depart-ment of Commerce is at once underof all the facts bearing upon the present situation and the outlook of our export market in agricultural products with the cooperation of the Department of Agriculture.



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Can We Reduce Taxes, Yet Increase Receipts?

Business Farmer's Correspondents Suggest Many Novel Plans to Answer this Paradox which is Uppermost in Minds of Our Farmers. If You Do Not Agree, Let's Have Your Plan

TAXING FARMERS OR TAXING INCOMES

ICHIGAN farmers and wage MICHIGAN farmers and wage earners recently helped to de-feat an income tax. They are coming to see that they should not have defeated it; sometime they will correct their mistake, and Michigan will have an income tax that will ex-empt such incomes as those of wage earners and farmers earners and farmers.

A tax on gasoline is now proposed, and some farmers and some wage earners are supporting it. The pro-posal should be considered a bit carefully. To put a tax on gasoline might be making another mistake Taxing gasoline was a real issue in Nebraska lately. Farmers and wage earners there gave unusual attention to it, and they defeated the tax.

There are three chief sources of mechanical power: steam, electric-ity and gasoline. Steam and elecity and gasoline. Steam and elec-tricity give power for railroads, fac-tories and big business generally. Gasoline is the fuel of the farm engine, the tractor, the truck. Big business almost entirely escapes a gasoline tax. Michigan's power dams would escape it. Railroads would have no gasoline tax to pay. On the contrary the truck would be taxed, and the truck is the railroad's taxed, and the truck is the railroad's chief competitor, the railroads have good reason for supporting a gasoline tax: it would tend to free the railroads from taxation and to keep trucks from competing with The truck has been the farmthem. them. The track has been the farm-ers' reliance and hope in avoiding high freight rates; a gasoline tax would serve the railroads by handi-capping trucks, by helping to put

trucks out of business. More is said about the rich man's automobile than about the farmer's Ford, which also uses gasoline. An income tax would reach the big income and would not touch the farmer's income, but a gasoline tax would be a tax .on every trip the Ford makes to town with cream or eggs. Farmers have to go to town now and then, for marketing, for repairs to machinery, or to see a doctor. The car proves cheaper than horses for such trips, and commonly a farmer finds that he has to have a car. In general, the farmer who has no car general, the farmer who has no car is hoping to have one. Taxing gas-oline is not a help to the farmer; it is taxing his Ford, his tractor, his buzz-saw. To tax the men best able to pay, a gasoline tax is not necessary; an income tax will do the work.

Living far from town is a disadvantage. A gasoline tax makes the disadvantage greater; the farmer who has ten miles to go must pay five times the tax paid by the farm-er who has two miles to go. It is an unfair tax, not a tax proportioned to ability to pay.

gasoline tax is a sales tax, and A gasonic tax is wrong in principle; it is a tax on the consumer, the man least able to pay. Organized farmleast ers and organized labor have thought the subject through, and national organizations are positively on rec-ord against sales taxes. They have defeated sales tax proposals in Washington.

Sales taxes are no new thing. They were tried out in Egypt and Babylon and have been tried out very many times since. Regularly wherever they have been tried they have made It was sales taxes that trouble. It was sales taxes is started the American Revolution. A national sales tax would be a device to put the cost of the world war on men least able to pay it. A great American authority on taxation (Professor Seligman of Columbia University) says that it would make

THE State of Michigan could wipe out debts amounting to \$63,-500,000 within the next ten years if a four per cent income tax were adopted, as such a tax would yield a sufficient surplus over the amount needed to run the state to accomplish this task. If the income tax law were drawn in such a manner as to require the reporting of all incomes. large or small, the grand total report-ed under the law would not be far from two billion dollars in an average year. From this amount would be deducted the personal exemptions allowed. If such exemptions average \$1,000 for perfor persons reporting, they would amount to about \$1,400,000,000. The income subject to the four per cent tax rate in an average year would therefore be around \$600,000,000, and the tax thereon would amount to \$24,000,000.—David Friday, President of Mich. Agricultural College.

such trouble in this country as the country has never yet known. Ne-braska farmers chose to stop sales taxes befor; they started; and the gasoline tax proposal was an attempt to start them. Michigan farmers may yet decide that they want an in-

come tax and no sales taxes. Taxation should be according to ability to pay. A graduated income tax is a tax of exactly that kind. Small incomes are exempt because they are needed; they can not be taxed without lowering the standard of light of the termayors. Big inof living of the taxpayers. Big in-comes may be taxed without any harm; but men who have big in-comes are interested in advocating taxes of other kinds. The way to tax the rich man is to tax his income, not his gasoline.

A state income tax is not unfair even for meeting some local expenses, such as the expense of the country school. The incomes of millionaires are not derived from their own school districts; they are contributed by farmers and other producers who must pay for freights, gasoline and farm implements (in-cluding Ford cars). Some of the tribute that the people pay to the profit system should come back to them in support of local schools by a is giving a poor education to a child merely because the child's parents happen to live in a poor district; that unfairness may be seen in many places in Michigan. There is talk of discontinuing the help that the state now gives to rural schools; instead, that help should be ' reased. An income tax would su, ply the money to increase it.

Taxes on farm lands are clearly too high. They are among the reas-

for example.

prices.

pound.

of beans,

ons why Michigan no longer produces its own food and why the farm population of the United States was 1,700,000 less in 1920 than in 1910 while cities were growing rapidly. Unless some change is made in the system of taxation, Michigan farm lands are likely to have more to pay. There is now a project to prohibit. the sale of "lands absolutely unfit for agricultural purposes." Nobody will pay taxes on land that can never be sold. Sending lands back to the state would make heavier taxes to be paid by the rest of the land. That land also would tend to become "unfit for agricultural purposes" be-cause the taxes would be more than farmers could pay.

The project seems honest but a few years ago Kalamazoo celery land and other good Michigan lands were held worthless by everybody. In its time the whole state has been con-demned as worthless. We know that our plains are seldom "absolute ly unfit" to grow potatoes and ly unfit" to grow potatoes and cherries, for example. If farming were more profitable, more of Mich-igan's land could be farmed. Mich-igan land does not need investigation as much as the marketing system that makes cities pay ten cents apiece for such apples as Michigan farmers can not sell.

There is not need to tax farm land more heavily; there is no need for the state to tax it at all. There is no need to discourage the use of gasoline. The Wall Street Journal says that the profits of the Ford Motor Company in 1922 were over \$125,-000,000. This is one of the indica-tions that income taxes could easily pay the total expenses of state government in Michigan without hard-ship to anybody, without lowering

Growers Should Get 50c Pound for Wool

From the consensus of markets in HAVE had repeated requests for advice on wool markets and prices. I have several folios of London, Boston and feelers being tried out in the west, the figures reports, forecasts and subject matter quoted seem probable. Based on production costs, the price is also equitable. However if losses susrelating to foreign and domestic wool conditions. These can be reduced to advices on prices which 'is tained during the last three years are that the average Michigan wool clip should bring the grower 50c per considered the price is low. The general price level of wool on this Any forecast or price advice basis is according to the price index based on statistics may be negatived by a concerted effort to lower the 166 as compared to 100 in 1914. The general price level of all commodities market by buyers during the marketis 164. Iron 170. Lumber 193. Railroad rates 188. Cotton 209. Wool at 50c per pound is not out ing season, or by the timidity of the sellers failing to hold to a fair market value. There is little posline with other staple products. sibility of local dealers exerting marketing influences as in the case Michigan is second only to Ohio in the production of bright wools, pro-Many dealducing around ten million pounds, ers are "financed" or are simply comthis including pulled wools. Wool west of the Mississippi river is rated mission buyers for some wholesaler. Unfortunately there is no community lower than Ohio and Michigan. Ohio of advices in agriculture operating to and Michigan can make their prices advise sellers and acquaint them of to correspond to the cost of producas Master of the Mich. Stat: Grange A. B. Cook says, the "mark to shoot at." tion by consistantly holding for 50c per pound for average clips of wool. -Jas. N. McBride, Pres. Michigan Sheep Breeders Assn.

anybody's standard of living. In anybody's standard of hving. In comparison, a gasoline tax is too little a thing to talk about; but the little thing will do much harm if it keeps people from thinking about an income tax and getting it .--- C. F., Ansley, Mich.

TAXES \$120 IN 1905, JUMP TO \$602 IN 1921

HAVE just read the article by David Friday published in The Business Farmer of February seventeenth, which is interesting. Dr.

Friday states the farmers should not expect prices of farm produce to go higher, and I believe Dr. Friday is right. I read an item in the "Grand Rapids Press," written by Ed. Kis-senger, of Ashton, who owns one of the best farms in Osceola county. Mr. Kissenger says "tax farms according to their producing value, and tax gasoline 4c per gal., tax cars by their weight, have every one pay a poll tax of \$5. In fact try and get every one to bear their share of the tax burden," and Mr. Kissenger is right. Everyone says something must be done for the farmers or our country will go to ruin, and everyone is right, but what must be done?

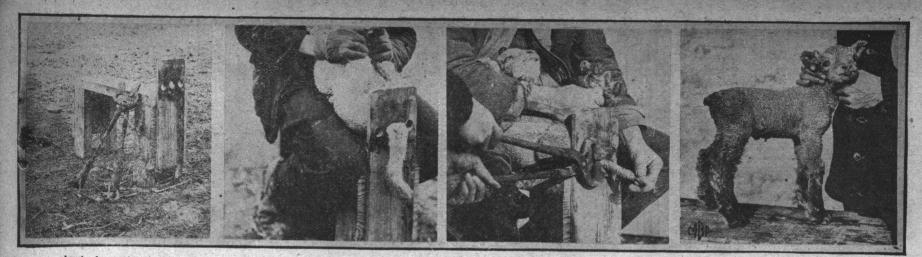
At our first good roads meeting held in LeRoy, in 1913, one of our progressive farmers (John A. Nelson) stated it was not our work to build the public roads, it was the Federal G vernment's job, the same as was done in the country he came from, and many other countrys, and Mr. Nelson is right, but when will it be done?

With the present auto traffic the government should build and main-tain all Trunk Line and mail routes, it is the only perminent cure for our present condition. Any other sys-tem must be inferior, and a make shift, owing to the present distribution of our wealth. Our law mak-ers in Washington are wasting a lot of wind and have been for several years but have done very little to benefit our hundred million people. One bunch wants to cover the ocean with U. S. Ships to compete with foreign countries, another bunch wants to build another Panama canal, another bunch wants to increase the farm loan from \$10,000 to \$50,000. All this is rot and a damage to our country. Any farmer who demands more than \$10,000 is a capitalist, and should be able to farm without suffering.

What do we want with another Panama canal, or why build more ships while our harbors are full of them rotting. Our country cannot compete in ocean freight rates with countries where wages are so much lower, and we must have lower rates if we sell our produce. With the great auto factories turning out thousands of cars every day, and the public calling for more roads and better roads, and our state school department demanding of our rural expensive equipment and continually raising the amount of tuition they must pay the graded schools, and the higher wages for teachers added to our regular township, county and state tax, has raised the taxes to about six times what they were in 1905. I have just looked up my tax receipts for 1905, and I paid on a certain lot of property, \$120.69, and on the same property without any improvements made since 1905 the tax for 1921 was \$602.82 and the prices on farm products are not much different. Many farmers are leaving their farms and taxes unpaid, this will bring bad results, some of our statesmen are trying to find a remedy, but have met (Continued on Page 15.)

THE MICHIGAN BUSINESS FARMER

March 17, 1923



Lambs for market should be docked as they are more attractive to the buyers. Docking makes the hind-quarters appear more blocky and it also adds to the cleanliness of the animal.

Properly Prepared Lambs Bring Top Price Market Value of Lambs Greatly Increased Through Docking and Castration

OCKING and castration of lanbs D destined for the market mater-ially increases their market value because of improvement in quality, according to the United States Department of Agriculture.

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There are several reasons for this. Docking makes the hind-quarters of lambs appear more blocky and deep and it also adds much to the cleanli-ness of the animals. Thus they ap-pear more attractive to the buyer when they reach the market. Ewes which are to be kept in the breeding flock should also be docked as a large portion of the undocked ewes will fail to breed.

Ram lambs over three months of age tend to grow thin and develop coarse shoulders and neck. Thinfleshed, coarse, open-shouldered lambs are not of a desirable quality open-shouldered and when they reach the market they are discriminated against by the buyers because of these features. If the lambs are castrated and docked when they are a few days old their growth will not be retarded. On the other hand they will present a better appearance and if they have been properly fed will have a smooth, desirable finish at four months of age. Lambs of good quality in this condi-tion command a premium over bucky and undocked lambs at the markets. and undocked lambs at the markets. Oftentimes during the period when the Jersey City market is receiving large numbers of lambs from the Eastern states, lamb prices at that market fluctuate sharply because of the high percentage of undocked and

bucky lambs which are discriminated against by buyers seeking a highquality priduct. Improving the quality of the lambs intended for that market will help to stabilize prices, according to members of the trade represented there. Wether lambs are quiet and easily handled. They feed well and make

Wether lambs are quiet and easily handled. They feed well and make good gains in flesh, particularly in the hind-quarters, the region of the high-priced cuts. Thus a better quality of carcass is secured together with higher market prices for weth-er lambs. Meat of this quality when sold by the retailer will result in a well satisfied customer and a future demand for more meat of the same quality. It is often stated that lambs which are to be shipped to the market before they are four months old need not be castrated. This is a

mistake as some of the ram lambs mistake as some of the ram lambs will begin to worry the rest of the flock and to lose flesh before this time. Furthermore, the market may not be strong at the time the lambs reach this age and they may be held back by the owner for several works for bigher prices During weeks for higher prices. During this time the ram lambs will not only rapidly lose in weight but if kept During with the rest of the flock they wll also cause the ewes and ewe lambs to lose flesh.

Neither docking nor castrating are dangerous operations if properly per-formed. Lambs should be docked and castrated when they are from seven to fourteen days of age, as there is practically no retarding of growth and less pain than is the case when they are older. Lambs may be both docked and castrated at the

More and Better Potatoes to the Acre

MY certified seed was grown on five acres of well five acres of well manured clover-sod ground. On four acres I used two tons of commercial fertilizer but did not use any on the other. On the four acres I planted certified seed; on the other mixed seed, mostly Russets. The unfertilized seed yielded 252 bushels; the other four acres 419 bu. In experimenting with the fertilizer I used one ton on the first acre and one third of a ton each on the other three. The one acre yielded 504 1-2 bushels, the other three averaged 390 1-3 bushels. The

potato rows were thirty inches apart each way, with an 85 percent stand. I am a firm believer in more and better potatoes to the acre rather than more acres.

My certified seed won first prize at the Michigan potato show in Grand Rapids in December. I also won four other prizes at the exhibit.

I hill-select my seed to plant, taking hills with vines free from disease and with from nine to nineteen per-fect potatoes in each.—By E. Sutton, First Prize Winner at Michigan Potato Show, 1922. same time, thus avoiding the neces-sity of handling them twice. The operations should be performed on a clear, cool morning and care should be taken that the animals are not ex-cited on operated other before opcited or overheated either before or after the work is done. A sharp knife or some type of

docking irons may be used to do the docking. In either case the tail should be cut at the first joint which occurs about one inch from the body. If a knife is used the lamb should be held with the feet up, the rump resting on the top of the fence or upon the knee of the person assisting in the work. There is less pain when the knife is used but there is more loss of blood and it is sometimes necessary to tie a string around the stump to prevent the lamb from los-ing a large amount of blood. This string must be removed a few hours later. When hot irons are used it is precessary to rest the lamb or is necessary to rest the lamb on 'a board. The irons sear the stump as the cut is made and this prevents the loss of blood. The wound will heal more slowly, however, than when a knife is used.

In castrating, the lamb should be In castrating, the lamb should be held in the same position as for dock-ing. The lower third of the schotum should be cut off and the testicles pulled straight out. It is highly im-portant that the wound be washed with an anticeptic solution and that the hands and knife be disinfected for each operation. It is less for each operation. It is also neces-sary to furnish clean quarters for the lambs in order to prevent infection of the wounds.

"How Shall I Apply Fertilizer to My Corn Crop to Increase the Yield?"

THIS is a question of interest to many corn growers in Michigan

and one on which there is not a little difference of opinion among farmers and students of soil fertility as well. The best method, undoubt-s edly, will vary somewhat in accordance with soil and climatic conditions and with soil and climatic conditions and with farm practice. Sandy soil, low in organic matter, and heavy' clay soil rich in organic matter re-spond very differently to fertilizers. Rainfall during the growing season is also an important factor in determ-ining the results to be obtained from an application of fertilizer an application of fertilizer.

Some farmers prefer to apply the corn fertilizer in the hill or row, while others are convinced that it should be drilled solid or broadcast-ed. The arguments for and against the two methods can be stated briefly.

Fertilizer is applied in the hill so as to be near the seed and give the young corn a "running" start. The corn gets ahead of the weeds and can be cultivated several days ahead of corn that has been fertilized broadcast. The increased yield is broadcast. The increased yield is usually larger in proportion to the amount of fertilizer used in the case of hill or row application. The claim is made, however, that when only 75 to 125 pounds of fertilizer are applied in the hill or row, it is all used up by the corn crop or if there is a residual effect on the next crop it is only in the old hills or

By Special Correspondent

rows and not of much value. It is also claimed by some that small ap-plications of fertilizer cause the crop to draw more heavily on the supply of plantfood in the soil. But so does anything else that is done to increase anything else that is done to increase the yield, such as the use of good seed or careful cultivation. The old adage, "You can't eat your cake and have it," applies very well in this instance. Every bushel of corn takes its toll of plantfood and the only question is, how can this plant-food be supplied most economically?

There is a common impression that fertilizer in the hill cause. "bunch-ing" of the roots and that as a result corn fertilized in this way is more likely to be injured by summer drouth. The Michigan Experiment Station has carried on a careful instation has carried on a careful in-vestigation and has concluded that there is no "bunching" of roots nor injury from drouth that can be trac-ed to hill application. The Wis-consin Experiment Station has ob-tained similar results and it would therefore seem that this objection to



as to where fertilizer was applied in this field and where it was not-results speak for themselves.

hill application of fertilizer may not be so important as was formerly thought to be the case.

Fertilizer attachments for corn planters are, in many cases, poorly constructed. They too often drop the fertilizer in a "bunch" and do not mix it with the soil. Some of them even deposit the fertilizer in direct contact with the seed and this is very likely to delay or even to pre-vent the germination of the seed. There is little if any danger in the hill fertilization of corn if the ferti-lizer is distributed so that it is mix-ed with the soil near the seed but not in direct contact with the seed. It is pretty generally agreed that Fertilizer attachments for corn

It is pretty generally agreed that the bulk of the fertilizer used in a general rotation should be applied broadcast. Corn fortilized in this Corn fertilized in this way, however, starts slowly and is not benefited materially by the fertilizer until several weeks after planting. There is, of course, a large residual effect from a broadcast ap-plication of 200 to 300 pounds of fertilizer on corn. All things considered, the best re-

sults will be obtained if a small amount of fertilizer, say 75 to 125 amount of fertilizer, say 75 to 125 pounds, is applied in the hill or row and the rest of it applied broadcast. In this way the advantages of both methods of application can be obtain-ed. The corn will be given a quick start, the demand of a larger crop for plantfood will be met, and the residual effect on the following crop will be worth while.



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FREE MEAT CURING BOOK

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Please inform us the terms work-ing on a farm for a third.---Mrs. C. E. G., Concord, Michigan.

-Under the one-third stock lease the and lord furnishes farm machinery and all stock and tenant furnishes the labor and gets one-third of the proceeds. Such expenses as thresh bill, seeds, etc., are divided in same proportions as proceeds. If the landlord furnishes nothing

but the farm and the tenant furnishes horses, machinery and labor, he is entitled to one-third of the small grains as the proceeds and the tenant pays for the seed and thresh bill.

The hay is usually divided equally and if baled the landlord pays half. Such crops as hay the landlord furn-ishes the seed.—F. T. Russell, Prof. of Farm Management, M. A. C.

ENTITLED TO HALF OF STRAW I have been working on a farm on shares beside of my own farm. The man that is agent of the farm reserves the house and I am working the fields. We do not keep any stock on the farm, raising mostly grain. The agent of the farm sold the straw and refuses to pay me half. The contract doesn't say anything about the straw but it does say: "Each to get one-half the proceeds derived from the the sale of all grains, pro-duce, etc., taken off said farm." Am I entitled to one-half the money from the straw? This straw amounts to about \$70.00. I raised the straw and consider I ought to have half of it Will the form half of it. Will the farm hold the straw in such a case.—P., Concord, Mich.

-The clause in the contract providing that each shall receive one-half the proceeds derived from the sale of grain, produce, etc., taken from the farm would include proceeds derived from the sale of the straw, and in the absence of a stipulation rela-tive to the straw, each would be en-titled to one-half the proceeds from its sale. Some settlement might have to be made to cover the cost of marketing of the straw .--- Asst. Legal Editor.

APPLICATION FOR DRAIN

I am working a farm which is own-ed and occupied by my father and mother. My father ditched the farm several years ago but made no out-lets and we have no co.nty ditches in our neighborhood and father's ditches are not large enough to take the water away. What must I do in order to have the drain commissioner establish a drain as such a drain is badly needed and would be a great benefit to the neighborhood? Would I have the right to get out an appli-cation the same as if I owned the land and would I have the right to sign an application were one made out and how many signers would it have to have in order to secure the drain?—Subscriber. Vassar, Mich.

-If you have the power of attorney from your father and mother, giving you general powers to deal with their property you would thereby be au-thorized to sign an application for the construction of a drain. Section 1 of Chapter 3 of the Drain

law provides that a commissioner will have authority to act upon receipt of an application signed by not less than one-half of the free holders whose lands are traversed by the drain. You should therefore obtain an application from the Drain Commissioner of your county and procure the signatures of not less than half of the property owners whose lands would be traversed by the drain to be applied for .--- H. H. Partlow, State Highway Dept.

QUESTION OF NEGLIGENCE

Two of my horses got out in the ad. I went after them, while drivroad. ing them home I met a car. It was just getting dark. A few rode in front of the car the horse walked up into the road. The car struck it and broke its leg. I called a veterinary and he advised me to kill the horse. The driver claims he did not see the horse although he had the lights lit. He was driving at the rate of about fifteen miles per hour. His car was

slightly damaged and he told me that he would expect me to settle his bill, on the ground that I was not carrying any light. Can I get pay for my horse?—C. C., Lake Odessa, Mich.

-Your recovery in this case would depend upon the question of negli-gence. In a recent case, the Mich-igan Supreme Court held that it is negligence for the driver of a to drive at such a rate of speed that he is unable to stop within the distance covered by the range of his lights. If your horse had been stand-ing still in the road, it would be neg-ligence on the part of the driver to fail to see it in time to stop. However, if the horse ran into the road in front of the car so as to take the driver by surprise, his failure to stop his car in time would not be negli-gence. The only way you can re-cover is by showing that the driver was negligent and that you were not negligent.—Asst. Legal Editor.

NATURAL GAS

I know where there is a place that if you light a match and pass it over it burns like gas. No snow lies on it in winter and it burns till s nouthered and there is no smell of gas .--- H. L., Gladwin, Mich.

-I would advise that very probably the inflamable gas is actually natural gas. It may have a slightly different composition than ordinary natural gas which will account for the lack of smell. I suspect that you have found one of the numerous gas seepages which occur in a number of areas in this State.

southwestern Macomb and In southeastern Oakland counties the farmers use some of the surface gas, which is struck in wells, for heating and lighting their homes. A gas spring in Montmorency county is so large that probably if the flow could be successfully trapped it would be sufficient for lighting a group of houses. Gas wells of considerable size have been struck in Manistee county around Portage Lake. Such signs are not significant since they are in areas of leakage and not of ac umulation. The pool, if the gas is derived from one, in most cases is distant from the seepage. Drilling in the vicinity of such signs therefore would be of little use in most in-stances. Many wells have been drilled on the basis of these signs and nothing, worthy of mention has been found.—R. A. Smith, State Geologist.

REFUSES TO PAY DEBTS

Your Service Bureau seems to an-swer all questions I would like a reply to this one. A signs notes with B to the extent of \$2,000.00 and se-cures no mortgage. B in about two years refuses to either pay interest or notes or to even renew them. A gets a judgement on stock and machinery being forced to hold a sheriff's sale, and secured about \$300 that way. B and his wife own 90 acres in joint deed and A has been told that there is no way to secure a hold on this farm as it is held in a joint deed. If this is a law in Michigan, why couldn't any man that holds a joint deed with his wife on property, refuse to pay his honest debts?-G. G., Breckenridge, Mich.

-The property could not be reached for the satisfaction of the debt. However, if the husband purchased the property after the debt accrued, taking a joint deed with his wife, his undivided half interest could be levi-ed upon for the debt.

Before any person extends credit to another or takes his note without security, he should be sure that the debtor is financially responsible, and if he is depending on certain proper-ty out of which to satisfy the debt,

he should ascertain whether that property can be reached by creditors. The law always looks to the securing to every man of his rights and aims to protect him in those rights from unscrupulous practices by others. However, it expects in return that every man will exercise reasonable prudence in his business dealings, and it cannot always furnish a remedy when the injured party has not taken proper precaution in pro-tecting his own interests.-Asst. Legal Editor.

JOINT STOCK LAND BANK

Could you explain the joint stock land bank and how loans are obtain-ed from them, and the difference be-tween is and the federal farm loan. —J. N., Sanilac County, Mich.

—The Federal Farm Loan Act pro-vides for a dual system of banking, consisting of Federal Land Banks and Joint Stock Land Banks. Both are under the same supervision. Federal Land Banks loan their funds Federal Land Banks loan their funds through National Farm Loan Assoc-iations, and each borrower must take 5 per cent of his borrowings in stock with a double liability on that stock, and must help maintain th associa-tion while he is a member. These associations are limited to loans of \$10,000.00 and to men who are act-ually living on the farm. This bank is limited to loans not to exceed \$37,-500.00 to one individual, but is not 500.00 to one individual, but is not limited to men who actually live on the farm, just so they use the funds

the farm, just so they use the funds for agricultural purposes. The purpose of these two types of banks was to give the farmer the choice of joining a co-operative insti-tution or making a loan direct through a Joint Stock Land Bank without any further liability. This without any further liability. This is the reason why there has always been a difference of one-half of one per cent between the interest rate charged by the Federal Land Banks and by the Joint Stock Land Banks. The actual cost of the money to the Borrower is the same.

There is no commission charge in our loans. The total charge we make is a flat charge of \$5.00 per thousand to cover the services of the Federal Appraiser and the Title Ex-aminer. We require that every ap-plication coming to us be accompan-ied by an application fee of \$12.50, which is credited to the \$5.00 per thousand charge when the loan is closed. Our Mortgages are exempt from the Mortgage Registration Tax in the State of Michigan

in the State of Michigan. On account of the limited profits, however, to Joint Stock Land Banks in this business, it is necessary that we receive a number of applications at one time in order to enable us to make all inspections at a reasonable cost, unless an application is for a large amount.

If any of your neighbors or friends whom you feel would be desirable moral risks, and who own well managed farms, wish to avail themselves of this type of financing, we will gladly write them at your or their request.—John H. Kraft, Vice-Pres., First Joint Stock Land Bank, Cleve-land, O.

HUNTING WITH FERRET ON OWN

FARM I would like to find out if a person is allowed to hunt with a ferret on their own farm, and do they have to get a permit to have one in posses-sion?—W. K., St. Charles, Mich.

-The law provides for the issuing of permits to farmers and fruit growers only, to use . ferret in hunting rab-bits on their own lands. The per-mits are issued at the discretion of the Director of Conservation.—Dept. of Conservation. of Conservation.

LOGS FOR BARN FLOOR

Would poplar logs eight inches through at small end flattened on one side be strong enough for barn floor side be strong enough for barn floor with three lengths for barn 36 feet wide? That is with 12 feet between supports in basement. 16 feet to eaves of barn. How close would they need to be spaced? Would peeling them when green help the strength of them?—R. R., Farwell, Mich Mich.

---Poplar logs 8 inches through at small end placed 18 inches apart would give sufficient strength. Peelthem would lessen the likelihood of their decaying and would be ad-visable.—F. E. Fogle, Asst. Professor of Farm Mechanics, M. A. C.

HOW TO PROCEED TO COLLECT NOTE

On Dec. 12, 1921, our rural car-rier borrowed \$25 from me. He said some of his checks were lost in the some of his checks were lost in the mail and he needed the money. I gave him a check for \$25 and he gave me a note for \$30 due in six months.' When the note was due in June I asked for the money. He said he could not pay until July. In July he put me off until August and in August he said he would pay it in the fall. In December, 1922, I left the note at the bank for collection. The cashier of the bank sent him

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notice to which he paid no attention. This man has no one to care for but himself. Would you please let me know how to collect this money. Any information you can give will be greatly appreciated.—F. O., Minden City, Mich.

-If there were any indorsers on the note, you could proceed against them, after making proper presentation to the maker for payment, and after giving notice to the indorsers, your only recourse would be to sue on the note.-Asst. Legal Editor.

SMALL WHITE BUG AROUND LILY ROOOTS

I have a fily and there are small white bugs in the ground around it. When I put water on the lily they come to the top and float on the watconsists of the top water settles down they go back in the ground again. What can I put on to kill them? The lily is doing fine. The bug has been in the ground about one year.—A. W. H., Fairgrove, Mich.

if this is used several times in water ing the plant I have no doubt that the insects will be destroyed without injury to the plant.—R. H. Pettit, Professor of Entomology, M. A. C.

ENTITLED TO DOWER INTEREST

I am writing for information. Can an old lady, marrying an old man, collect anything from the estate on the death of man, the woman not helping accumulate any of the property but merely taking care of man? -H. D., Big Rapids, Mich.

----Upon the death of the husband without having made a will, the widow would be entitled to her dower widow would be entitled to her dower right interest, that is, the use during her natural life of one third of the lands which her husband owned while they lived together. Or she may choose instead of dower, her interest as an heir of her husband. In the latter case, if the husband had two or more children, the widow would receive one-third and the children two-thirds of the estate. If there were only one child, the widow would receive one-half and the child would receive one-half and the child one-half. If there were no children, nor heirs of a deceased child, the widow would receive one-half and the husband's father, mother, broth-ers, sisters, nephews or neices one-half. If there were neither of the half. If there were neither of the above named relatives living, then the widow would receive the entire estate.—Asst. Legal Editor.

HIRING SCHOOL TEACHER

Can a director alone or the three officers of a school district alone hire a teacher at the time of the Xmas vacation or first of January? Has the law changed in the last few years when they used to take a vote of all the one at the school meeting in July? A few years ago no teachers July? A few years ago no teachers were hired until the night of the school meeting in July. Last Xmas our director hired the teacher again for another year.—E. M., Clifford, Mich Mich.

-The board of education is the au-thority for the employment of teachthority for the employment of teach-ers and they may do so at any time during the school year. The direct-or alone cannot legally hire a teach-er. The legal voters have not had the right to direct the employment of the teacher in over forty years at least. Section 13 of Chapter 3 of Act 164 of the Public Acts of 1881 provides that the heard is the authorprovides that the board is the author ity for employing the teacher and such has been the law ever since.---L. Coffey, Dept. of Public Ins tion.

CAN MOVE OR SELL

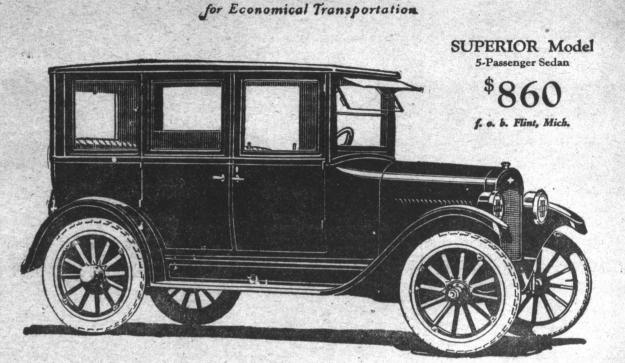
A rents a house and barn from B for cash rent, no land included. A buys feed for all his stock, draws it there and feeds it. Is B entitled to the manure because it is not on beards or can A move or sell it if he wishes?-L. B., LeRoy, Mich.

-Under the circumstances you mention, the manure would be personal property, and A could remove it. The fact that it is not on boards makes no difference except that it is more difficult to ascertain the amount A is entitled to .--- Asst. Legal Editor.

Keep the Business Farmer Coming See page 13.

The Eyes of The World Are On





Holds First Place Among All Show Cars in Number of 1922 Sales

During 1922 the public bought more than 50%more Chevrolets than of any other fully equipped car, giving Chevrolet first place in number of cars sold among all cars exhibited at the 1923 N. A. C. C. Shows.

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SUPERIOR Five Pa	ssenger Sedan				860	
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Chevrolet Motor Company, Detroit, Mich. Division of General Motors Corporation

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THE MICHIGAN BUSINESS FARMER

By Sarah T.





The Truth About Henry Ford Bushnell

Mr. Ford and Religion-His Wife and His Home

(Continued from March 3rd Issue)

The Ford residence is of gray native stone and built along the Gothic lines. His study is in the round tower. Long bookcases shelter his books, the technical ones among them showing plainly their constant use, and a large window looks to-ward the bungalow which Mr. Ford built in the first days of his prosperity as a resting place where he would be safe from intrusion. Its broad veranda and great fireplace sur-rounded with easy chairs make it comfortable in summer or winter. The study windows overlook what at first glance seems an Indian mound, but which is the natural shelter for the electric boat which Mrs. Ford drives up and down the river. All the windows give a view of the River Rouge, which has been compared to the James in Virginia.

Within a short distance of the residence is the gray stone garage in which are Mr. Ford's laboratory and experiment rooms, and where he perfected the tractor on which he worked harder than on any other of his inventions. In reality this garage building is a modern power plant with exceptionally heavy walls to shut in all noise. Here the inventor often labors until late in the night, just as he did in the red brick barn in Bagley street. Detroit, where he made his first car.

About ten years ago a certain, lergyman in Detroit, who was ambitious to build a costly church, went to Mr. Ford for a contribution, hop-

ing to get a large sum. "No," replied the millionaire, "I don't believe in expensive churches." "Then," said the clergyman, "will you come to my next service and let me preach a sermon especially for you? I hope to convince you that you are wrong."

The following Sunday the minister cast a searching eye over his con-gregation; then he announced his It was from I Chronicles, 17 text. chapter and first verse; "And it came to pass, when David dwelt in his house that David said to Nathan, the prophet: 'Lo, I dwell in a house of cedar, but the ark of the covenant of the Lord dwelleth under curtains. The minister raised his eyes from his Bible and exclained: "The word curtains used here means tents." He followed the text by reading the verses one, two, four, five and nine with especial emphasis on the fourth, fifth and ninth. Then he turned the pages to II Samuel, 7 chapter, and read:

"And Nathan said to the King, 'Go, do all that is in thine heart;

for the Lord is with thee.' "And it came to pass the same night, that the word of the Lord came unto Nathan, saying: "'Go and tell my servant David, "Thus saith the Lord, Shalt thou build me an house for me to dwell in.

'I have been with thee whither-

soever thou wentest and have cut off thine enemies from before thee and I will make thee a great name, like unto the name of the great ones that are on the earth."

The Clergyman launched into his sermon. After he was well started he fixed his eye on Henry Ford and said: "The church is the dynamo of the Lord's business. It is right and proper that churches should be beautiful and should be as lovely as it is possible to make them. should we live in fine houses, houses of cedar, and worship the Lord in tents? There is a rich man in this city, a very rich man, who considers that his engine is the dynamo of his factory. It has always been the custom to place such engines near the rear, in an ugly section of a factory, facing an alley. This rich man had put his engine in the front part of his factory, it is in a beautiful room with pure white tiling. He keeps men constantly polishing and cleaning it; he has surrounded it with handsome plate glass windows. The engine faces the most expensive thoroughfare in our city. Sightseers stop to admire its immaculate beauty. The very rich man loves

(Copyright by Reilly & Lee Co.)

this engine; he surrounds it with the best that money can buy. He con-siders it the dynamo of his business. siders it the dynamo of his business. This is true with churches. They are the dynamo of the Lord's business. They should have in and around them everything that is lovely and beautiful. No expense should be spared in the construction of `a church nor its location."

The minister went on and on with his argument. The following week he went to see his richest parishion-No mention was made of the

er. No mention was indee the sermon until he was leaving. "I haven't changed my mind," said Mr. Ford then. "I feel just said Mr. Ford then. "I feel just as I did. I don't believe in expensive churches. But I do think that a minister should be paid a salary that will enable him to live in comfort, and lay by something, so that he can buy a home or a farm or a little place in the country where he little place in the country where he can round out his last days. I'm going to disappoint you; I'm not going to give you anything for your new church." He handed the min-ister an envelope. "Please give that to your wife when you get home, just a little token of my regard for you both"

you both." When the rector returned home he told his wife of the disappointing visit and handed her the envelope. In it were twenty one-hundred dollar bills.

The rector later built his big nurch. He succeeded in his ambi-ons. He was taken abroad, and church. tions. sent to various parts of the country by the millionaire; eventually he received a large salary.

Eventually the minister and his wife drove into the country; they found a little fruit place, with a tiny house on it, something to tie to in case of old age or misfortune.

It is characteristic of Henry Ford that he took no offense to the frankness of the sermon, but did not change his mind.

In order to keep his factory running full blast through December, 1920, Mr. Ford took a loss of fifteen millions. Against the advice of his business associates he kept produc-tion going until after Christmas Day. When New York reporters telephoned his office he refused to give his reasons for the shut down, his idea being that a statement regarding his retrenchments and the re-organization of his business might depress the market. Immediately there arose wild rumers that he was in financial difficulties. Happily, these were un-true. His aversion for borrowing has placed his gigantic undertakings nas placed his gigantic undertakings on a safe financial footing. Detroit is not New York; Griswold is not Wall Street, but a prominent Detroit banker has said: "If Henry Ford should need large sums of monéy, Detroit will secure it for him."

However, it was the serious illness of his son, who went through an ap-pendicitis operation, which caused Mr .Ford grave concern during the winter of 1920-21, and not financial. difficulties.

A joy he is getting from his money is refurnishing his mother's old home, which he bought from his brother, John. As stated before, the town line when finally surveyed ran through this house. The county com-missioners ordered the house mov-ed so that a road called "Townline" could be built. Accordingly, the dwelling was thrust back to make way for progress, and the forest trees in the yard were hewn down because they interfered with the grading. Mr. Ford is having similar trees placed around the old home. He has gone into the attics and barns of his brothers' houses and has found discarded furniture which he associates with his mother's memory and he has said to the rest of the family: Be-fore many years rell by we will be-gin to grew old. We will fix the home place like mother and father had it. We were so happy when we were children there together."

More than his vast wealth, Mr. Ford's real riches consist of a wife, whose constant thought is his health and well being; a loving son and two small grandsons, who are his pride and joy.

CHAPTER'X His Wife and His Home

No one could hope to write an adequate review of the development of Henry Ford's life and character without including some account of the wife who has meant so much to him in so many ways from the day he devised the watch with four hands, through all his struggles, disappointments and successes, down to the present time. During all these years the home life of Mr. and Mrs. Ford has been ideal.

One must know Mrs. Ford intimately to understand fully her part in the Ford achievements. She is theroughly home-loving, capable and charming. So considerate is she, so unpretentious and gracious, that visitors to the Ford home forget that their hostess is one of the richest women in the world, owning in her own right a one-third interest in the corporation that is reported to pay an annual tax of eighty millions.

Mrs. Ford dresses in shades of brown or blue, and mink and sable are her favorite furs. She is small of figure, youthful in appearance, of figure, youthul in appearance, with chestnut eyes. Her voice is low and musical. We sat one winter af-ternoon in the sun parlor of her home watching the birds about the weather-worn stump on which each winter day she places fresh grain for her feathered friends. Beyond, the River Rouge wound in and out among tall forest trees, snow cov-ered the ground and the frozen water was a sheet of gray ice. Behind us in the drawing room, which is paneled in French-bleached American walnut and furnished with cozy chairs and heavy velvet draperies of multberry color, long hickory logs were crackling cheerfully in the carved white marble fireplace. The conversation drifted to the part that woman must take in present day aftairs.

"There are so many demands for help that it would be unfair to take them lightly or to consider them in a haphazard, happy-go-lucky fash-ion," she said softly. "If they are handled carefully and systematically women can uplift, not pauperize, those they seek to help. Every village, city and state has its problems to solve. It seems to me that every homeloving woman should use her personal influence to cope with all the issues that directly and indirect-ly touch her home. If she does this," she added with a smile, "she will be compelled to take an active interest in politics. She may have to get out her school books and brush up on community civics and the science of government, for woe be unto her if she fails to understand exactly what. she is undertaking. Of course," she added whimsically, "it would be easier and pleasanter to sit at home by the fire and knit, or chat idly over our teacups; but those times are slipping from us." Mrs. Ford seldom has an ilde

moment. Large wealth has brought her pleasures and privileges; it has her pleasures and privileges; it has also brought heavy responsibilities. Each day she receives volumes of mail. Her desk overflows with ap-peals for help; to answer them per-sonally would be an endless task. Her name and essistance one provide Her name and assistance are sought by local, state, national and inter-national welfare workers. Personally she visits the detention homes; she lunches at the House of Correction; she consults with the women's police board officials. Each case she seeks to help is first investigated by experts through authorative channels. Some of us know of thousands of families she helped while the factories were closed; many of those she visited; to others she sent her agents. She works constantly for the Girls' Pro-tective League and other active organizations. For many years she has been treasurer of the Priscilla Inn, a home in Detroit, where girls can lead carefully chaperoned lives and enjoy comforts not easily obtained in an overcrowded manufacturing city like Detroit. Three miles beyond the Ford's

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Dearborn estate, and half-way between Detroit and the University of Michigan at Ann Arbor, is a square red brick home, "Valley Farm." Passers-by, in automobiles, gaze at it with frank curiosity. It is understood that Mrs. Ford is deeply interested in social welfare problems and that this Valley Farm belongs to her. If the inventions and vast wealth of Henry Ford have made him a world figure, they have made the activities of his wife of interest wherever their name is known. The general public knows little of the work accomplished at Valley Farm; except that it is some sort of rescue work. The old house is bravely facing new conditions. It is doing ultra-modern work; developed scientifically, by professionally trained workers, for the benefit of posterity. This is possibly the strongest link in the chain of work of the Dunbar Memorial Woman's Hospital, and the most farreaching of all the great and good achievements of Detroit women. The farm, thirteen miles out in the country, has proved a boon to the hospital in Detroit, which is located on the busy, noisy corner of Frederick and St. Antoine.

Through Mrs. Ford's courage and thoughtfulness in sponsoring this work, its results will be felt to many generations. It has meant the salvation of thousands, whose successful reclamation has blezed the trail for welfare workers.

for welfare workers. What has actually been accomplished is of more importance than any general theorizing. Mrs. Ford has been affectionately called "the erring girl's friend." She says, "Men are willing to help boys and pulsiveness have brought trouble and distress to many girls and to their families. It is wonderful what has been done for them by those in charge at Valley Farm. They do it beautifully and sympathetically. They reach the girls when they are friendless, depressed and often bitterly antagonistic to the world. The quiet activities include two months' training and hygiene, household arts and parental duties. The kindly, far-sighted board of trustees and the tireless, unselfish trained nurses assist each one to secure work and establish a clean, wholesome home."

Mrs. Ford has opened the door of opportunity for many ambitious people, and has put success within the grasp of others. She is constantly lending a helping hand to those who need it most. Each day she is confronted with a round of duties, for she is the energetic, capable type of American womanhood which is playing a tremendous part in world affairs today. Her creed is that "Money should be used to make the world better, not to create envy and breed selfishness."

Being a musician, Mrs. Ford has a concert piano in her family living room; a pipe organ in the walls of her drawing room; in her library, which is lined from floor to ceiling with much-read books, is a Victrola; in her sun-parlor an Edison. "Music is refreshing," she says. She organized the Dearborn Garden Club, of which she has long been president, and through her influence the members acmbing media

She organized the Dearborn Garden Club, of which she has long been president, and through her influence the members combine wellfare work with nature study. This club holds two annual flower shows. Blue Ridge Mountain rhododendron, which in June is laden with gorgeous pink blossoms, flanks the Ford doorway and the lovely graystone mansion is very comfortable, very homelike.

Seven thousand acres are in the estate. The land stretches back to the city limits and in the opposite direction toward the tractor plant a River Rouge. The first home built by Mr. Ford still stands in the grounds. It is an attractive, frame farm house, with awide veranda and green roof, and is furnished as it was during their early housekeeping days. Near it is a rustic bungalow, where guests are sometimes entertained.

In spring and summer a rush of lilac and heliotrope fragrance surges through the open windows of Mrs. Ford's rooms. These purple flowers are banked around the gray-stone walls, border the flagstone walk and cluster under the big trees. The heliotrope trees she propagated are from slips which the mistress of the house raised with infinite care. In autumn they are taken into the connervatory; the following spring they

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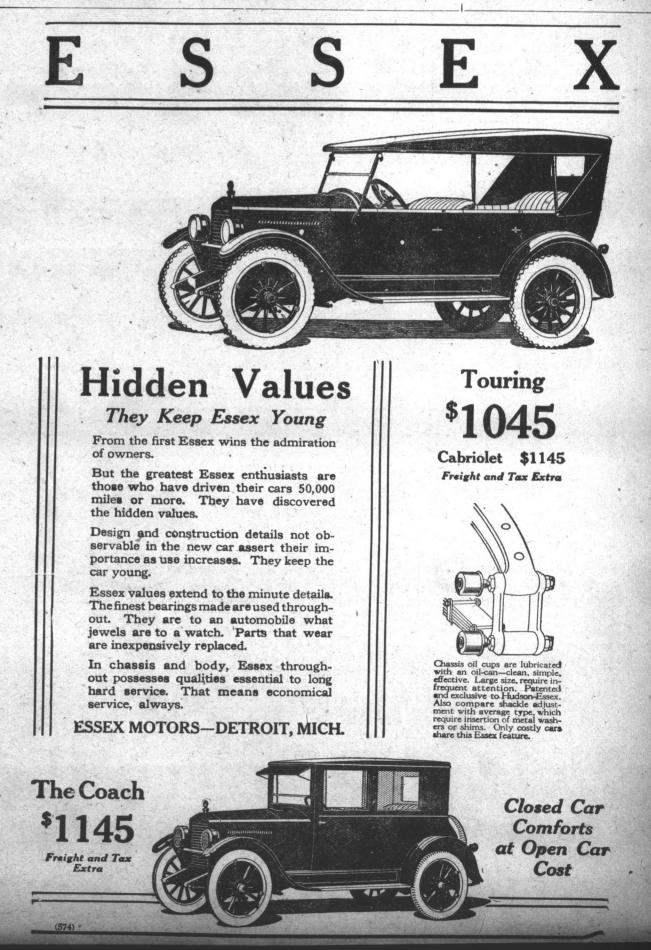
are re-set outdoors. This cycle, followed year by year, has produced specimens five feet in height, with trunks four inches in circumference. Some of her other flowers are blue larkspur, yellow gaillardias, bronze salpigolossis, blue seabosa, sweet peas, asters, shirley poppies, marigold and gourds which she raises to please her grandchildren. The rose garden is the only bit of formal landscape. She said one day while talking about her flowers: "I cannot buy everything I crave. Like my mother I love old-fashioned pinks. I haunted florists' shops, old homes and cemeteries in search of these tiny, red-flecked, spicily scented plants. It was my dress-makers sister who, generously, sent the basket of roots to form the nucleus of my large beds."

ed plants. It was my dress-makers sister who, generously, sent the basket of roots to form the nucleus of my large beds." Two miles from the estate can be seen the twinkling lights of the little village of Dearborn. To it she has given a library site, and has built and given to the Episcopal church a large brick rectory; she is a member of the social service committee of her church. Greenfield, where she was born and reared, is five miles from Dearborn. In the summer Mrs. Ford takes a family party for a cruise on their yacht. She has traveled the world over, but, with the exception of a small place at Fort Myers, Florida, which Thomas Edison persuaded them to purchase next to his winter cottage, the Fords have never owned a home outside of Detroit or Wayne County, "We have lived here always," she say, "and here we love to stay."

Persistent sightseers have made it necessary to keep the gates of the estate locked and guarded. All the servants, both in and outside the mansion, have held their positions many years. They have an air of courteous consideration and softness of voice which they seemed to have caught from the owners of the home.

The country and the wide outdoors hold for Mrs. Ford more attractions than the social life of any city, yet in her home she has entertained inventors, statesmen, capitalists and titled visitors. John Burroughs was a frequent guest. He enjoyed the birds, flowers and native trees which are under the care of Longfeather, a southern Indian. In the library is an autographed set of Burroughs' books; in a secluded part of the grounds is a rough bronze statue of him, and on the drawing-room table an exquisite miniature of the great naturalis.t John Burroughs once sent to Mrand Mrs. Ford a carload of red sandstone from the Catskill mountains of his beloved native state, New York. These stones were worked into a sort of shelter for the bronze figure and for the bird pool near it. This spot the Fords called their "Burroughs Nook." Many rare birds, including Kirkland's Warbler and other unusual members of the feathered family, tarry at this quiet retreat, and here Burroughs, himself, discovered several northern birds, including the Bohemian waxwing, which he had long hoped to see, but had never been able to find elsewhere.

elsewhere. Since his death Mrs. Ford and Mrs. Edison have been made members of the executive board of the Burroughs Memorial association. They attended his funeral and went to New York two weeks later to formulate plans for preserving Woodchuck Lodge, Slab Sides (where Burroughs had his study and where he used to write his books) and Riverby, which was a more pretentious home near Poughkeepsie, just outside of the small town of West Park, New York. (Continued on Page 19.)



10 (386)

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20 APPLE TREES FOR \$1 postage paid. Start then from my perfected grafta. Jonathan, Delicious, Yerk Imperial, Spies, Live-land Raspherry, Yellow Transparent, Duchess, Wealthy, Rome Beauty, Steel Red, and many other good ones. Lucretia Dewberry, 1 doz., \$1.00, postage paid. Grape Vines, 156 each. MARSHALL VINEYARD, Ben L. Marshall, Paw Paw, Mich.

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Chesaning, Michigan. CHOIGE STRAWBERRY PLANTS. \$2.75 Per 1,000 All standard varieties at \$3.75. Gearan-teed first class or money refunded. Outside. MRS. FileNA WOOLF. ALLEGAN. MICH. STRAWBERRY PLANTS \$3.00 per 1000, Instructed book free, You will serve Address MAYER'S PLANT NURSERY, Marrill, Mich. SENATOR DUNLAP, DR, BURL strawberry plants all \$3.00 per M. GIBSON

THE MICHIGAN BUSINESS FARMER

FARM MECHANICS

SAFE AND EFFICIENT TOOLS FOR THE USE OF EXPLOSIVES SAFE 10 ase high explosives with the

maximum of safe+; and efficiency, various tools and accessories are necessary or desirable. Of course the character of the work governs to a great extent the kind of tools required and to certain extent the blasting accessories also.

A four-pound hammar and a drill are necessary tools for shooting boulders that can not be blasted in any other way. A round soil punch bar pointed at one end and with an expandel head on the other, with a heavy sledge hammer or maul is necessary for quick work in shooting stumps or tree pla, ting or subsolling in hardpan or dry clay. A punch bar of different type is useful in moist ground, muck and swampy land. This consists of a length of two inch galvanized iron pipe about five feet long, pionted at one end and threaded to receive a "T" at the other. Two shorter pieces of pipe about a foot long each threaded into this "T" which forms a handle. This make a convenient punch for one or two men to operate where the soil permits but it is not adapted to being driven down by a hammer. An axe or mattock are convenient tools for clearing brush around stumps and boulders and a sawed off broom stick or rake handle makes a very efficient tamping stick. A shovel handle with the rounded end sawed off square, leaving the offset end to hold by, makes a convenient tamp-ing stick in some kinds of work. The tamping stick is used for pressing the charges of dynamice into the bore hole and for pressing in the tamping such as earth, clay or sand to confine the charge. It is not safe to ham-mer this at any time; in fact, it is extremely dangerous. The charges are pressed in firmly but not pounded.

Various types of soil augers are used, but an ordinary two inch wood auger with an extension welded on auger with an extension weided on the shaft which ends in a ring through which a wagon spoke can be used as a handle, answers the pur-pose very well. Do not make the mistake of using too small an auger. Two inches in diameter is about the minimum. A straight steel bar sharp pointed at one end and chiselpointed at the other, about seven feet long, made out of one-inch or one and one-quarter inch drill steel

MAKING UNPROFITABLE ORCH-

ARDS PAY

large number of these un rofitable orchards can be made to yield good crops of high-quality fruit by special

crops of high-quality fruit by special treatment, the United States Depart-ment of Agriculture has prepared Farmers' Bulletin 1284, Apple-Orch-ard Renovation, by H. P. Gould, which discusses the principal pract-ices found useful in bringing neglect-ices found useful in bringing neglect

ed trees back into profit-producing

found not only in sections where the home orchard or fruit garden is the prevailing type of fruit growing, and in regions where orchards of consid-in regions where orchards of consid-

erable size occur only occasionally, but also in the recognized commerc-

orchards are not worth the time and

expense necessary to renovate them. In deciding what is to be done the

following factors need to be consid-ered: The orchard must be on a good site with no rock ledges or

hardpan near the surface, well drain-

ed and without unusual danger from frosts; the trees must have good vi-

tality, without decayed trunks, cank-ers that girdle the limbs, or weakness

that would make good growth impos-sible; finally, the varieties must be good unless it is practicable to top-

A neglected orchard is always a menace to other orchards in the neighborhood and in sections where

graft the trees.

apple-growing districts.

Orchards in need of renovation are

condition.

EASURED by the abundance and regularity of the crops of high-

grade fruit produced, there are many apple orchards of bearing age that are not successful. Because a

RUIT AND ORCHAR

Edited by FRANK D. WELLS

Some

makes a very handy tool for making holes under stumps and boulders, getting between roots which the aug-er becomes tangled with, and for cuter becomes tangled with, and for cut-ting off rootlets with the chisel end. In the blasting ac origination vou will require besides the dynamite, some blasting caps and "i se or elec-tric llasting caps, leading wire and a blasting machine. The electrical method is much safer than the can and fuse method but the initial cost is somewhat greater as you have to buy a "asting machine and leading is somewhat greater as you have to buy a 'asting machine and leading wire. The electric blasting caps however do not cost much m(') than blasting als with the required amount of fuse. Cap crimpers are a desirable and necessary part of your equipment if you use the cap and fuse method and are convenient and fuse method, and are convenient even with the electrical method, as one leg of the crimper is pointed for the purpose of punching a hole in the dynamite cartridge in which the electric blasting cap is inserted. The most convenient leading wire is call-ed duplex wire because it has two wires laid parallel to each other and wires laid parallel to each other and insulated from each other and from the ground. This is generally sold in lengths of 250 feet. A shorter amount than this is not particularly safe for shooting large size stumps in the open. The No. 2 blasting mach-ine is the best all round arrangement for generating current for electric ine is the best all round arrangement for generating current for electric blasting as the terminals are dead ex-cept at the moment the machine is operated. Many accidents have oc-curred when dry cells or storage bat-teries are used, due to the fact that their terminals are always alive un-til the battery runs down

their terminals are always alive un-til the battery runs down. A necessary rule in all kinds of electrical blasting which is put with all possible emphasis is this: Dis-connect the leading wire from the battery immediately after firing a shot of attempting to fire one. In looking for a broken wire anywhere in your circuit first make sure that in your circuit, first make sure that the battery is disconnected, otherwise there may be an accident

A galvanometer for testing the continuity of the circuit is desirable continuity of the circuit is desirable but not absolutely necessary, for the general run of agricultural blasting unless you expect to go into the busi-ness. The same may be said of the rheostat which is an instrument for testing the blasting machine to see that it is in working order.—Arthur LaMotte, Mgr. Technical section, Ex-plosives Dept., E. I. du Pont de Ne-mours & Co. mours & Co.

property until paid.

whether or not a certain orchard

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culture, Washington, D. C.

Your Tractor

For threshing, plowing, road grading, or any other kind of *heavy* work you want a Tractor that will deliver ample power easily—surely—steadily—and continu-ously day after day and week after week until the job is done. Then it must be ready for the next job.

In addition you want a tractor that is so strongly and well built that it will stand up under this heavy work for a long period of time, with a low up keep cost. Ability to do the required work for a long period of years and at low operat-ing and upkeep costs makes a heavy duty tractor profitable. All these requirements are met in the

All these requirements are met in the NICHOLS-SHEPARD

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is a giant for work. The Nichols-Shepard Oil-Gas Tractor

drives a thresher with just as steady, even motion as a steam engine. Is is THE Tractor for heavy duty.

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Battle Creek, Michigan



March 17, 1923

lowed to fill out solidly from row to row there will still remain plenty of plants. The fresh earth that is dragged around the plants will be of benefit, while the teeth of the har-row will loosen the crust. After ground has produced two or three crops of berries it is 1stely to need fertilizer and this may be scattered fertilizer, and this may le scattered along the plowed strip between the new rows. The strip that has been new rows. The strip that has been plowed up should be stirred frequentplowed up should be stirred trequent-ly through the summer, and as much fresh soil as possible pushed in be-tween the plants. If the plants should be very thick, a strip even less than a foot in width will be suf-ficient for the new row. Stable ma-nure should be used only when the ground may be cultivated to destroy weeds and grass.—H. F. Grimstead.

PRUNING AND PROPAGATING BOX

BOX Is it possible to root boxwood from cuttings? The kind I have is the tall-growing variety; n the low bushes, usually found in old gardens along the path. Is this the proper time to trim the erooted from cut-tings made of young shoots, 4 or 5 in. long, either in the spring or fall. Some growers are quite successful in in. long, either in the spring or fall. Some growers are quite successful in rooting them plante. in sandy soil in early spring, but the surest and most successful method is to handle them under glass, either in the green house or cold frame. In either case they should be planted in good propagat-ing sand, and the glass shaded with whitewash to keep the temperature down on bright days. Boxwood, like mostly all other evergreens, may be pruned any time that the wood is not frozen. frozen.

PRUNING CHERRY TREES

I have some cherry trees, planted last year and year before, and ask just where they should be pruned.—

V. W. B. —When planting is done in the fall there should be no pruning until spring. If one-year-old trees are planted, they should not be touched except to be headed off at the proper height in case they would otherwise make too high a head. If older trees are planted, all branche: not needed for the framework of the tree should be removed, and the remaining branches should not be pruned. The newly planted tree should have plenty of foliage, and as soon as pos-sible. The last year's growth which is left for the framework will give more foliage if left entire, since the large perfectly developed buds at the except to be headed off at the proper large perfectly developed buds at the ends of the branches, which would be removed if pruned, are the buds be removed if pruled, are the buds which give the most luxuriant foliage in the shortest time. Further than this it is not good practice to prune cherry trees at all, except to remove dead and broken branches incident to picking, and to remove entire such other limbs as are not desired.

SAVING THE HAY THROUGH RADIO

AST June and July were two of L the wettest months so far as rainfall is concerned that New Jersey has ever seen. Farmers all over the state lost thousands of tons over the state lost thousands of tons of hay because the heavens wept so continuously that it was impossible to get hay sufficiently dry and well enough cured to put in the barns be-fore it had turned black with rot and spoiled. If a farmer could always know exactly when the rain was com-ing he could beat the 'game by not mowing down his hay until old Sol, the sun and boss of all hay makers was going to show his face. E. Smith Hoover, Manager of the

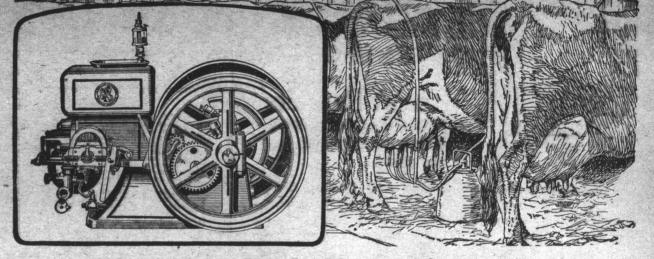
E. Smith Hoover, Manager of the State Farm of Annandale obtained this information over the radio and as a result has his barns full of an one-hundred percent crop of fine al-faifa and clover hay. He never lost

falfa and clover hay. He never lost a load all summer. During haying season every morn-ing at eleven either Mr. Hoover or his wife tuned up their set and listened for WJZ, the Newark Broadcasting Station of the Westinghouse Comp-any, which gives out the U. S. Weath-er Bureau forecast. As soon as the news came Mr. Hoover knew wether to tell his boys to mow down more hay for the morrow or to stop cut hay for the morrow or to stop cut-ting and hustle that which was curing in the mow.

A REAL "BROTHER" Dear Mr. Editor: Enclosed please find one dollar for which enter my brother's name on your list for one year along with my renewal for one year. I think it is a worthy little paper to be in the house as it gives good reading for all in the house and I know my brother will appreciate it very much.-C. C. McC., Petersburg. Mich.

THE MICHIGAN DUSINESS FARMER

T P IEN MIL



"Seven and a half years' service -and still going strong"

N Rummerfield, Pennsylvania, Mrs. Boyle runs a dairy farm with the help of one steady man and a Hercules Engine. The herd consists of from twenty-five to thirty cows and she says that one man can do the milking in two hours. Here is an extract from her letter:

"Our 1½ H. P. Hercules Engine has spent seven and one-half years running a five-single-unit milker. . I could not speak too highly of the engine, as it has been run by all sorts of help. The cost of operating and repairs has been a very small item. 5000 hours would not cover the run-ning time of this little servant."

Mrs. Boyle's farm is one of more than three hundred and fifty thousand where the Hercules is bearing the brunt of the hard work-doing the milking, running the dairy, grinding feed, running the washing-machine, the workshop, the water-pump, the grindstone-doing the thousand and one things that must be done and that are downright hard work.

(387)

11

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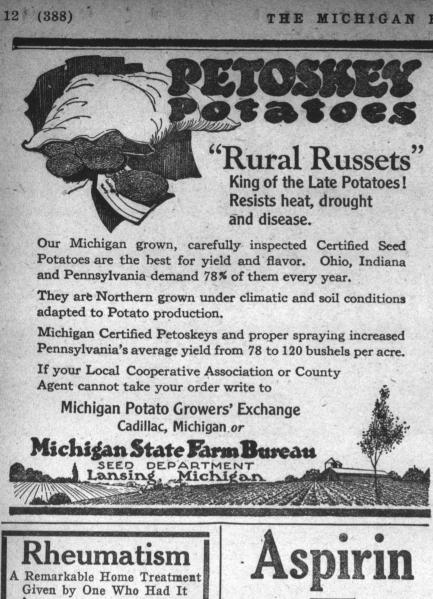
There should be a Hercules dealer near you. If there isn't, drop us a postal. Let us show you how you can lighten the burden of work on your farm. An inquiry puts you under no obligation.

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Given by One Who Had It Given by One Who Had It The the year 1893 I was attacked by Mus-show the set of the attacked by Mus-ter of the set of the attacked by Mus-show the set of the attacked by Mus-show the set of the attacked by Mus-set of the set of the set of the set of the here of the set of the set of the set of the here of the set of the set of the set of the here attacked by Mus-ter of the set of the set of the set of the here attacked by Mus-ter of the set of the set of the set of the here attacked by Mus-ter of the set of the set of the set of the here attacked by Mus-ter of the set of the set of the set of the here attacked by Mus-ter of the set of the set of the set of the here attacked by Mus-ter of the set of the set of the set of the here attacked by Mus-here attacked by Mus-ter of the set of the set of the set of the here attacked by Mus-here attacked by Mus-here set of the set of the set of the set of the here attacked by Mus-here attacked by Mus-here attacked by Mus-Mark H. JACKSON 2651 Onvertor Bid MARK H. JACKSON

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The Hunted Woman By James Oliver Curwood

Michigan's Own and America's Formost Author of the Great Northwest

(Copyright by James Oliver Curwood

SYNOPSIS John Stand Sta SYNOPSIS

(Continued from March 3 Issue) FOR a moment Joanne stood facing

L the little lake, and when she spoke again there was a note of thankfulness, of subdued joy and

triumpt in her voice. "Before that day had ended I had displeased Mortimer FitzHugh," she displeased Mortimer FitzHugh," she said, and Aldous saw the fingers of her hands close tightly. "I told him that until a month had passed I would not live with him as a wife lives with her husband. And he was displeased. And my father was not yet buried! I was shocked. My soul revolted. "We went to London and I was

"We went to London and I was made welcome in the older Fitz-Hugh's wifeless home, and the papers told of our wedding. And the papers told of our wedding. And two days later there came from Devonshire a woman a sweet-faced little woman with sick, haunted eyes; in her arms she brought a baby; and that baby was Mortimer FitzHugh's!

"We confronted him—the mother, the baby, and I; and then I knew that he was a fiend. And his father was a fiend. They offered to buy the woman off, to support her and the child, They told me that many English gentlemen had made mistakes like this, and that it was nothing— that is was quite common. Mortimer FitzHugh had never touched me with his lips, and now, when he came to touch me with his hands, I struck It was a serpent's house, and him.

I left it. "My father had left me a com-fortable fortune, and I went into a house of my own. Day after day they came to me, and I knew that they feared I was going to secure a divorce. During the six months that followed I learned other things about the man who was legally my husband. He was everything that was vile. Brazenly he went into public places with women of dishon-our, and I hid my face in shame.

our, and I hid my face in shame. "His father died, and for a time Mortimer FitzHugh became one of the talked-about spendthrifts of Lon-don. Swiftly he gambled and dis-sipated himself into comparative pov-erty. And now, learning that I would not get a divorce, he began to regard me as a slave in chains. I remembered, one time, that he suc-ceeded in laying his hands on me, and they were like the touch of things that were slimy and poison-ous. He laughed at my revulsion. He demanded money of me, and to keep him away from me I gave it keep him away from me I gave it to him. Again and again he came for money; I suffered as I cannot tell you, but never once in my misery did I weaken in my promise to my father and to myself. But-at last

father and to L —I ran away. "I went to Egypt, and then to India. A year later I learned that Mortimer FitzHugh had gone to I returned to London. America, and I returned to London. For two years I heard nothing of him; but day and night I lived in fear and dread. And then came the news that he had died, as you read in the newspaper clipping. I was free! For a year I believed that; and then, like a shock that had come to destroy me, I was told that he was not dead but that he was alive, and in a place called Tete Jaune Cache, in British Columbia. I could not live in the terrible suspense that followed. I determined to find out for myself if he was alive or dead. He is down there—dead. And I am glad that he is dead!" "And if he was not dead," said

Aldous quietly, "I would kill him!" He could find nothing more to say than that. He dared trust himself no further, and in silence he held out his hands, and for a moment Joanne gave him her own. Then she with-drew them, and with a little gesture, and the smile which he loved to see trembling about her mouth, she said: dus. We must go back and apolo-gize!" "Donald will think this is scandal-

She led him down the slope, and her face filled with the pink flush of a wild rose when she ran up to Donald, and asked him to help her into her saddle. John Aldous rode likeone in a dream as they went back into the valley, for with each minute that passed Joanne seemed more and more to him like a beautiful bird that had escaped from its prison-cage, and in him mind and soul were absorbed in the wonder of it and in his own rejoicing. She was free, and in her freedom she was happy!

Free! It was that thought that pounded steadily in his brain. He forgot Quade, and Culver Rann, and the gold: he forgot his own danger, the gold: he forgot his own danger, his own work, almost his own exist-ence. Of a sudden the world had become infinitesimally small for him, and all he could see was the soft shimmer of Joanne's hair in the sun, the wonder of her face, the marvell-ous blue of her eyes—and all he could hear was the sweet thrill of her voice when she spoke to him or old voice when she spoke to him or old Donald, and when, now and then, soft laughter trembled on her lips in her sheer joy of the life that had dawned anew for her this day. They stopped for dinner, and then went on over the range and down

went on over the range and down into the valley where lay Tete Jaune. And all this time he fought to keep from flaming in his own face the de-sire that was like a hot fire within him—the desire to go to Joanne and tell her that he loved her as he had never dreamed it possible for love to exist in the whole wide world. He knew that to surrender to that desire in this hour would be some-thing of a sacrilege. He did not guess that Joanne saw his struggle, that evan old MacDonald mumbled low words in his beard. When they came at last to Blackton's bungalow he thought that he had kept this thing from her, and he did not seeand would not have understood if he had seen-the wonderful and mys-terious glow in Joanne's eyes when

terious glow in Joanne's eyes when she kissed Peggy Blackton. Blackton had come in from the work-end, dust-covered and jubilant. "I'm glad you folks have re-turned," he cried, beaming with en-thustasm as he gripped Aldous by the hand. "The last rock is packed, and tonight we're going to shake the earth. We're going to blow up Coy-ote Number Twenty-seven, and you earth. We's ote Number won't forget the sight as long as you live!"

Not until Joanne had disappeared into the house with Peggy Blackton did Aldous feel that he had descend-ed firmly upon his feet once more into a matter-of-fact world. Mac-Donald was waiting for the horses, and Blackton was pointing over to-ward the steel workers; and saying something about ten thousand pounds of black powder and dynam-ite and a mountain that had stood a

no and a mountain that had stour a million years and was going to be blown up that night: "It's the best bit of work I've ever done, Aldous—that and Coyote Num-ber Twenty-eight. Peggy was going

March 17, 1923

to touch the electric button to Twen-ty-seven to-night, but we've decided to let Miss Gray do that, and Peggy will fire Twenty-eight to-morrow night. Twenty-eight is almost ready. If you say so, the bunch of us will go over and see it in the morning. Mebby Miss Gray would like to see for herself that a coyote isn't only an animal with a bushy tail, but a cavern dug into rock an' filled with enough explosives to play high jinks with all the navies in the world if they happened to be on hand at the "Fine!" said Aldous. "And Peggy wants me to say that

it's a matter of only common everyday decency on your part to make yourself our guest while here," added the contractor, stuffing his pipe. "We've got plenty of room, enough to eat and a comfortable bed for you. You're going to be polite

you. You're going to be polite enough to accept, aren't you?" "With all my heart," exclaimed Aldous, his blood tingling at the thought of being near Joanne. "I've got some husiness with MacDeculd got some business with MacDonald and as soon as that's over I'll domi-cile myself here. It's bully of you,

"Why, dammit, of course I know!" "Why, dammit, of course I know!" chuckled Blackton, lighting his pipe, "Can't I see Aldous? D'ye think I'm blind? I was just as gone over Peg-gy before I married her. Fact is, I haven't got over it yet-and never will. I come up from the work four times a day regular to see her, and times a day regular to see her, and if I don't come up I have to send up word I'm safe. Peggy saw it first. She said it was a shame to put you off in that cabin with Miss Gray away up here. I don't want to stick my nose in your business, old man, but by George L comparatulate but—by George!—I congratulate you! I've only seen one lovlier wo-man in my life, and that's Peggy."

He thrust out a hand and pumped his friends limp arm, and Aldous felt himself growing suddenly warm under the other's chuckling gaze. "For goodness sake don't say any-

thing, or act anything, old mapleaded. "I'm—just—hopir, 'he

Blackton nodded with modigil understanding in his eyes "Come along, when you get through with Mac onald," he said. "I'm going in and dean up for to-night's fireworks."

A question was in Adous' me but he did not put it in words. I wanted to know about chade a Culver Rapp Culver Rann.

"Blackton is such a ridi forgetful fellow at times that I don't want to rouse his alarm," he said to MacDonald as they were riding toward the corral a few minutes later. "He might let something out to Jo-anne and his wife, and I've got rea-sons, Mac—for keeping this affair as quiet as possible. We'll have to discover what Rann and Quade are do-ing ourselves." MacDonald edged his horse in

nearer to Aldous.

"See here, Johnny, boy-tell me what's in your mind?" Aldous looked into the grizzled

face, and there was something in the glow of the old mountaineer's eyes that made him think of a father.

"You know, Mac." Old Donald nodded.

"Yes, I guess I do, Johnny," he said in a low voice. "You think of Mis' Joanne as I used to—to—think of her. I guess I know. But— what you goin' to do?"

Aldous shook his head, and for the first time that afternoon a look

of uneasiness and gloom overspread his face.

"I don't know, Mac. I'm not ashamed to tell you. I love her. If she were to pass out of my life to-morrow I would ask for something that belonged to her, and the spirit of her would live in it for me until died. That's how Leave Mag. It That's how I care, Mac. I died. wouldn't be the square thing. And yet she won't remain in Tete Jaune yet sne won't remain in Tate Jaune very long. Her mission is accomp-lished. And if—if she goes I can't very well follow her, can I, Mac?" For a space old Donald was silent. Then he said, "You're thinkin' of me, Johnny, an' what we was planning on?"

on? "Partly." "Then don't any more. I'll stick

to you, an' we'll stick to her. Only" "What?"

"If you could get Peggy Blackton to help you-

"You mean-" began Aldous eagerly. "That if Peggy Blackton got her to stay for a week—mebby ten days —visitin' her, you know, it would'nt be so bad if you told her then, would it, Johnny?" "By George, it wouldn't!"

"Ye

"Bein' an old man, an' seein' mebby what you don't see-

"That she'd take you, Johnny."

In his breast John's heart seemed suddenly to give a jump that choked him. And while he stared ahead

old Donald went on. "I've seen it afore' in a pair of eyes just like her eyes, Johnny—so soft an' deeplike, like the sky up there when the sun's in it. I seen it when we was ridin' behind an' she think-

Aldous waited, his heart-strings

ready to snap. "An' I think—she likes you a great deal, Johnny." Aldous reached over and gripped

MacDonald's hand. "The good Lord bless you, Don-ald! We'll stick! As for Quade

and Culver Rann-"I've been thinkin' of them," in-terrupted MacDonald. "You haven't got time to waste on them, Johnny. Leave 'em to me. If it's only a week you've got to be close an' near by Mis' Joanne. I'll find out what Quade an' Rann are doing, and what they're goin' to do. I've got a scheme. Will you leave 'em to me?'' Aldous nodded, and in the same

breath informed MacDonald of Peggy Blackton's invitation. The old hunt-er chuckled exultantly. He stopped his horse, and Aldous halted. "It's workin' out fine, Johnny!" he exclaimed. "There an't no need

of you goin' any further. We under-stand each other, and there ain't nothin' for you to do at the corral. Jump off your horse and go back. If I want you I'll come to the Blackton's 'r send word, and if you want me I'll be at the corral or the camp in the coulee. Jump off, Johnny!" Without further urging Aldous dismounted. They shook hands dismounted. They shook hands again, and MacDonald drove ahead him the saddled horses and the ck. And as Aldous turned back ard the bungalow old Donald s mumbling low in his beard ain, "God ha' mercy on me, but doin' it for her an' Johnny—for

IGAND. CATTLE AID TO MAT CATTLE AID TO MATRI-MONY INCE th

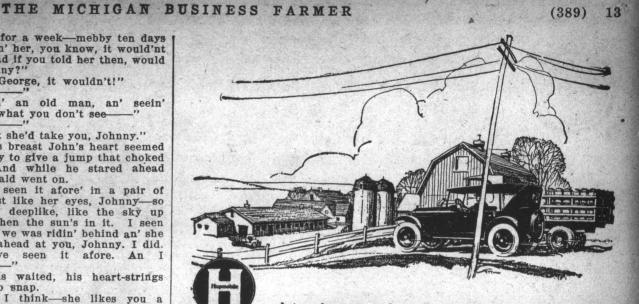
STRCE the earliest days in the Ugania erritory of Africa, the neason wealth of the var-ious tibes may been the number of domestic minutes owned. Practical-ly all of the de stok in the territory is owned and raised whatives. An-imals constitute the nitives bank ac-counts and their trading assets. Even since the introduction of coins, animals form an important medium of exchange and it is me baits of the colony one cow may be on not by sev-eral people, says a root the con-sul William L. Jenkim Through to the Department of Connerge cording to official figures to 12 earliest days in the cording to official figure. the cattle in that country 680,764, while there were 4,20 goats and 221,524 sheep, we exception of certain provinces which no statistics could be recei It is believed, however, that the tle population of the Protectorate about one million. Family he still dependent upon the ability young men to acquire the number of animals demanded by his prospective father-in-law. These young men are often-times up against it, because the country is very susceptable to cattle diseases.

"Without my hogs," said Nathan

Boggs, "I surely would be lost; My nice purebreds, both blacks and reds,

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It is a fact, proved over and over again, that the Hupmobile costs less to maintain over a period of three years, or longer, than any other car built today.

Owners of passenger car fleets have demonstrated Hupmobile's unequalled economy beyond any possibility of doubt.

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There is no secret about Hupmobile economy. It

begins with its better engineering design, and comes down to the fact that finer, more durable parts are used where wear and durability promote longer life and lower costs.

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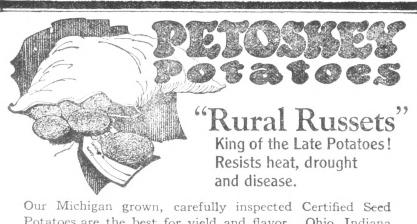
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The Hunted Woman By James Oliver Curwood

Michigan's Own and America's Formost Author of the Great Northwest (Copyright by James Oliver Curwood

SYNOPSIS

SYNOPSIS JOANNE GRAY is one of the passengers on the train bound for Tete Jaune Cache, the home of "The Horde," where she has no friends and all will be strange to her. The train stops at a town composed of several tents, the goes in search of food and a bath. She is directed to "Bill's Shack" and here she meets Bill Quade, who not only owns and operates "Bill's Shack" but is also leader of the lawises men of the town. Quade says he has a room she can rent and that he will show it to her. As they pass out of the room a newcomer enters the doorway leading off the street. The newcomer is John Aldous, a well known novel-ist. He sees the strange girl enter the place and believes she has made a mistake and as he stands in the doorway his eyes rest upon the curtained doorway through which they have passed. In but a moment the girl steps out, face flaming and eyes flashing. Quade follows be to the girl's side and floers Quade with a terrific blow. Aldous hurries the girl away from the scene to the fritzfugh. Aldous decides to go with her to protect her from Quade and his partner Culver Fland. Aldous decides to go with her to protect her from Quade and his partner Culver frann. Aldous decides to go with her to protect her from Quade and his partner Culver grave. Upen their arrival at Tete Jaune they are met by friends of Aldous, the Blacktons, at othes place they are to stay during their stop. Later they secure horses and supples and start off inte the wilderness accompanied by Donald MacDonald, a friend of Aldous. They locate the grave and return to the Blacktons.

(Continued from March 3 Issue) HOR a moment Joanne stood facing the little lake, and when she

spoke again there was a note of thankfulness, of subdued joy and

triumpt in her voice. "Before that day had ended I had displeased Mortimer FitzHugh," she said, and Aldous saw the fingers of her hands close tightly. "I told him that until a month had passed I would not live with him as a wife would not live with him as a wife lives with her husband. And he was displeased. And my father was not yet buried! I was shocked. My soul revolted.

"We went to London and I was "We went to London and I was made welcome in the older Fitz-llugh's wifeless home, and the papers fold of our welding. And two days later there same from Devonshire a vapuan a sweet-faced little woman with fick, hauted eyes; in her arms she brought a baby; and that baby was Mortimer FitzHugh's! "We contropted him - the mother.

"We confronted him - the mother, "We confronted him - the mother, "he haby, and 1; and then I knew that he was a fiend. And his father was a fiend. They offered to buy the woman off, to support her and the child, They told me that many Eng-"lish gentlemen had made mistakes mer FitzHugh had never touched me with his lips, and now, when he came to touch me with his hands. I struck It was a scrpent's house, and I left it.

I left it. "My father had left me a com-fortable fortune, and I went into a house of my ewn. Day after day they came to me, and I knew that they feared I was adding to secure a divorce. During the six months that followed I learned other things about the may who was legally my about the man who was legally my husband. He was everything that was vile. Brazenly he went into public places with women of dishon-our, and I hid my face in shame.

"His father died, and for a time Mortimer FitzHugh became one of Mortimer Fitzilugh became one of the talked about spendthrits of Lon-don. Swiftly he gambled and dis-sipated himself into comparative pov-erty. And now, learning that I would not get a divorce, he began to regard me as a slave in chains. I remembered, one time, that he suc-conduct in lawing his bands on meceeded in laying his hands on me, and they were like the touch of things that were slimy and poison-ous. He laughed at my revulsion. He demanded money of me, and to keep him away from me I gave it to him. Again and again he came for money; I suffered as I cannot tell you, but never once in my misery did I weaken in my promise to my father and to myself. But-at last awav

him; but day and night I lived in fear and dread. And then came the news that he had died, as you read in the newspaper clipping. I was free! For a year I believed that; and then, like a shock that had come to destroy me, I was told that he was not dead but that he was alive, and in a place called Tete Jaune Cache, in British Columbia. I could not live in the terrible suspense that followed. I determined to find out for myself if he was alive or dead. He is down there—dead. And I am glad that he is dead!"

" And if he was not dead," said

Aldous quietly, "I would kill him!" He could find nothing more to say than that. He dared trust himself no further, and in silence he held out his hands, and for a moment Joanne gave him her own. Then she with-drew them, and with a little gesture, and the smile which he loved to see trembling about her mouth, she said:

ous. We must go back and apolo-gize!"

She led him down the slope, and her face filled with the pink flush of a wild conserve when the pink much of a wild cose when she ran up to Don-ald, and asked him to help her into her saddle. John Aldous rode like one in a dream as they went back into the valley, for with each minute that passed Joanne seemed more and more to him like a heaviful hird more to him like a beautiful bird that had excaped from its prison-cage, and in him mind and soul were absorbed in the wonder of it and in his own rejoicing. She was free, and in her freedom she was happy!

Free! It was that thought that poinded steadily in his brain. He forgot Quade, and Culver Rann, and the gold: he forgot his own danger. his own work, almost his own exist-ence. Of a sudden the world had become infinitesimally small for him, and all he could see was the soft shimmer of Joanne's hair in the sun, the wonder of her face, the marvell-ous blue of her eyes—and all he could hear was the sweet thrill of her voice when she spoke to him or old Douald and when new ord ther Donald, and when, now and then, soft laughter trembled on her lips in her sheer joy of the life that had dawned anew for her this day

They stopped for dinner, and then went on over the range and down into the valley where lay Tete Jaune. And all this time he fought to keep from flaming in his own face the de-sire that was like a hot fire within him—the desire to go to Joanne and tell her that he loved her as he had never dreamed it possible for love to exist in the whole wide world. He knew that to surrender to that desire in this your would be something of a sacrilege. He did not guess that Joanne saw his struggle, that even old MacDonald mumbled that even old MacDonald mumbled low words in his beard. When they came at last to Blackton's bungalow he thought that he had kept this thing from her, and he did not see— and would not have understood if he had seen—the wonderful and mys-terious glow in loanne's one mber terious glow in Joanne's eyes when she kissed Peggy Blackton. Blackton had come in from the work-end, dust-covered and jubilant.

"I'm glad you folks have re-turned," he cried, beaming with enthusiasm as he gripped Aldous by the hand. "The last rock is packed, and tonight we're going to shake the earth. We're going to blow up Coy-ote Number Twenty-seven, and you won't forget the sight as long as you live!"

Not until Joanne had disappeared into the house with Peggy Blackton did Aldous feel that he had descended firmly upon his feet once more into a matter-of-fact world. Mac-Donald was waiting for the horses, and Blackton was pointing over to-ward the steel workers, and saying something about ten thousand pounds of black powder and dynamite and a mountain that had stood a million years and was going to be

blown up that night. "It's the best bit of work I've ever done, Aldous—that and Coyote Number Twenty-eight. Peggy was going

March 17, 1923

to touch the electric button to Twenty-seven to-night, but we've decided to let Miss Gray do that, and Peggy fire Twenty-eight to-morrow night. Twenty-eight is almost ready. If you say so, the bunch of us will go over and see it in the morning. Mebby Miss Gray would like to see for herself that a coyote isn't only an animal with a bushy tail, but a cavern dug into rock an' filled with enough explosives to play high jinks with all the navies in the world if they happened to be on hand at the "Fine!" said Aldous.

"And Peggy wants me to say that it's a matter of only common everyday decency on your part to make yourself our guest while here," added the contractor, stuffing his pipe. "We've got plenty of room, enough to eat and a comfortable bed for you. You're going to be polite

FOU. rou're going to be polite enough to accept, aren't you?" "With all my heart," exclaimed Aldous, his blood tingling Aldous, his blood tingling at the thought of heing near Joanne. "I've thought of being near Joanne. got some business with MacDonald and as soon as that's over I'll domi-cile myself here. It's bully of you, Blackton! You know——"

"Why, dammit, of course I know!" chuckled Blackton, lighting his pipe. "Can't I see Aldous? D'ye think I'm I was just as gone over Pegblind? gy before I married her. Fact is, I haven't got over it yet-and never will. I come up from the work four times a day regular to see her, and if I don't come up I have to send up word I'm safe. Peggy saw it first. She said it was a shame to put you off in that cabin with Miss Gray away up here. I don't want to stick my nose in your business, old man, but—by George!—I congratulate you! I've only seen one lovlier wo-man in my life, and that's Peggy." He thrust out a hand and pumped

his friends limp arm, and Aldous felt himself growing suddenly warm under the other's chuckling gaze.

"For goodness sake don't say any-thing, or act anything, old man." he pleaded. "I'm—just—hoping." Blackton nodded with prodigious understanding in his eyes.

"Come along when you get through with Macronald," he said. "I'm going in and tean up for to-night's fireworks."

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"Blackton is such a ridiculous forgetful fellow at times that I don't want to rouse his alarm," he said to MacDonald as they were riding to-ward the corral a few minutes later. "He might let something out to Jo-anne and his wife, and I've got reasons, Mac-for keeping this affair as quiet as possible. We'll have to dis-cover what Rann and Quade are do-We'll have to dising ourselves."

MacDonald edged his horse in nearer to Aldous. "See here, Johnny, boy-tell me

what's in your mind?" Aldous looked into the grizzled

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Old Donald nodded.

"Yes, I guess I do, Johnny," he said in a low voice. "You think of Joanne as I used to-to-think Mis'

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"Partly."

"Then don't any more. I'll stick to you, an' we'll stick to her. Only" "What?"

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THE MICHIGAN BUSINESS FARMER

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VGANDA CATTLE AID TO MATRI-MONY

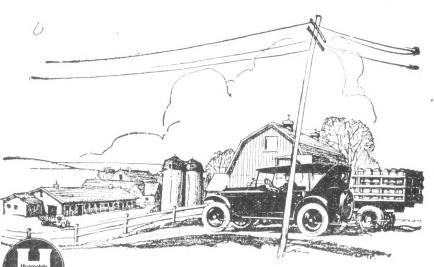
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SATURDAY, MARCH 17.

Edited and Published by THE RURAL PUBLISHING COMPANY, Inc.

GEORGE M. SLOCUM, President Mt. Clemens, Michigan

Represented in New York, Chicago, St. Louis and Minneapolls by the Associated Farm Papers, Incorporated Member Agricultural Publishers Association Member Audit Bureau of Circulations.

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nations with thousands of miles of boundary as witness the United States and Canada, live in peace, why cannot the nations on this old globe live in peace? But you say, families, communities, states and nations have disputes to settlesurely, but the individual who kills to settle a dispute is a murderer and the nation which kills to attain the same result is no less a murderer and should be so appraised in the eyes of the world.

That is the reason for the World Court and the League of Nations is simply the power, the police force, to enforce the mandates and the punishments prescribed by the court.

Let those who will scoff at President Harding and the apparent turn-about-face of his administration to the policies proposed by Woodrow Wilson, have their fling. As for The Business Farmer, although steadfast in our belief in the League of Nations, as the best step out of the pit-fall of future wars, we would rather see the United States go in whole-heartedly and with the unanimous approval of our people now, than three years ago, with the mind of the press and the public so divided.

It takes a braver man to admit he was wrong, than it does to fight blindly on, altho knowing he is wrong!

A WISE APPOINTMENT

DRESIDENT HARDING has appointed Charles Townsend, retiring senator from Michigan, to the chairmanship of the joint-committee

which cooperates with the Canadian government in the control of interrelations between the two great nations of the North American continent.

The zealots who have fought and fostered the Great Lakes-to-Ocean plan, have thus taken new heart, because they believed the last election which deprived them of Senator Townsend as the leader in their fight, was a staggering blow to the rapid progress the plan had been making during the past few years.

The new position gives Mr. Townsend even a more direct point of advantage and citizens of Michigan and the whole northwest, who are so vitally concerned over the early consumation of this great project will commend the president on his wise selection and appointment.

COUNTERFEIT MONEY

secret service has very THE recently unearthed the most daring and extensive

operations of counterfeiters ever discovered in the United States. The operations of this gang have extended from coast to coast and it has been in operation for almost six months unchecked, while the government slueths have been attempting to reach the master-minds behind the gigantic scheme. When the net was finally complete, a campaign of arrests was begun which is expected to enmesh a thousand persons, men and women in all parts of America.

Most of the money has been in large sized bills, principally of \$20 denomination. A greater part of it was passed through the illicit whiskey ring, but naturally found its way into countless hands.

Sooner or later a part of this money will reach the rural districts, it therefore might not be bad advice to suggest, that you have your banker look over any considerable amount of currency you are receiving.

A "NEW" CONTINENT DISCOVERED

7HEN you hear the word "Africa"; what springs up in your mind? Roaring lions,

charging elephants, crouching tigers or boa constrictors hanging from trees ready to embrace you! Or should not one of these animals get you, from the rank jungle, hideously painted cannibals brandishing feathery shields and poisoned spears, leap forward to impale you for their evening meal!

Is that your Africa? We confess that it was ours until the very recent few weeks while we have been following the traveler Newman from ich v ari wh he similar to traveling from Panama to Hudson Bay in our own continent.

From the spot where Stanley found Livingstone, then in the midst of a wilderness as you remember it described in your geagraphy, motion pictures (which cannot lie or exaggerate as the Marco Polo's of old were inclined) show a railway station, giant steamships and in the back-ground the tall stacks of the copper mining companies.

Copper, gold, zinc, tin, and radium mines that will rival the better known diamond fields further to the south, in their output of wealth, now are developing the heart of Africa. The fierce cannibal tribes of Stanley's time, have been converted into sober workers who listen for the factory whistle, come home to eat baked beans canned in America and go in the evening to

laugh at the antics of Charley Chaplin on the silver screen!

March 17, 1923.

That is Africa-central Africa-today, as the pictures prove it.

Millions of acres of fertile prairie, that have never felt the scratch of plow; billions of feet of fine lumber, from mahogany to teak-wood; enough coal to heat the world for a thousand years; water-power, unharnesses that could do the work of the world!

What open space for the teeming millions of China, India, Japan and Europe to migrate to and bring into productiveness. Here is a great continent, once the very cradle of civilization, which is almost as undeveloped to-day as was North America, before the war of the Revolution.

It may occur to you, too, as you read this that some of our allies in the great war, knew something of all this when they divided up German South Africa among themselves. 'The land Belgium acquired in Africa is twenty times the area of the mother country in Europe. The copper mines which Great Britain acquired will produce probably more than all of the copper mines in America combined, and at a cost of production which may threaten our own copper in the worlds market.

Africa beckons to the adventurous youth of the world, as once did America, and the same type of sturdy pioneers are hearing her call.

STATE INSTRUCTION FOR MOTHERS

WHEN you know that 145 babies out of every thousand born in one county in in Michigan died at birth last year, you will know why the women leaders in Michigan are backing the Bohn bill, which ratifies the acceptance by the state of the funds provided from the national treasury by the Sheppard-Towner act, for the purpose of instructing prospective mothers.

. If the bill passes the state will contribute \$29,000 which will be met with a similar sum from the national treasury. In every county in Michigan one or more nurses will be provided to help lower the mother and child death-rate. If there is any possible way in which the state and nation can repay the mother for risking her life to furnish its life-blood, then let that means to be speedily provided regardless of the cost. There is a time when dollars lose

their significance only as a means to an end. This is one of the times!

THE "HIRED" HELP

AVE you, father, ever been called a "hired II man"? Or have you, mother, ever came suddenly into the dining room to hear your mistress telling her guests that you were their new hired girl"?

If you have ever worked in either capacity for someone else, this little message will not be intended for you. It will not be necessary to remind you of the sting which these seemingly simple words have when they come to your ears for the first time, and you realize that you are "hired man" or a "hired girl".

This message is to the mothers and fathers of growing children, who are in circumstances which permit them to employ extra help on their farm, whether in the home or in the fields. It is a plea for the abolition of the hated words "hired man" and "hired girl" from the vocabulary of every farm home.

Learn to speak of your employed help as your "assistants"—explain it to your children that the work is too heavy for mother or father and that "John" or "Clara", have come to assist you with your work. Teach your children to respect those who are helping you and you will be surprised at the result.

In the first place, you will find it easy to keep better employees. There is something so un-American and akin to slavery, about the hated terms "hired man", "hired girl", or "servant" that no intelligent and self-respecting American will remain in a place where it or the attitude which means the same thing are continually expressed in word or action.

There are no "servants" in America, thank Servant, means servile, and we free citi-God! zens of this great republic, all of us, except the parasite and the loafer, are all helpers, cooperating, assisting one another; no matter what our position be in societies stratas.

The Agricultural & Business Survey, appears again this issue on page 29, it shows the trend of change in every phase of business or finance which reflects on agriculture. It looks like a lot of figures that you want to miss, but once you find out how much information it contains, you would not miss it for a farm! The sweetest meat is always in the nut that is hardest to crack!

The best thing about hearing a political speech over the radio is that you can shut it off!

United States Steel Corporation to cut pig iron production in half when prices are rapidly falling."-H. A. Wallace, in a re-

"The Farm Paper of Service"

ADJUST PRODUCTION TO DEMAND FARMERS have just as much right to

purpose of shortening hours and increasing

wages. They have as much right to cease

production wholly or in part as union labor

has to strike. It is no more wrong for

farmers to reduce products when prices are

below cost of production than it is for the

organize to control their output as

union labor has to organize for the

THE FARMER IS A BUSINESS MAN

DEPORTS of the success met by the acreage men of the sugar factories in Michigan who

have adopted the now famous "50-50" contract by which the farmer becomes a co-partner of the factory, in the profits derived from the manufacture and sale of beet sugar, seems to prove the fact which The Business Farmer has reiterated so many times; that the farmer is not afraid to take every risk which the business man in any other line will, if he is given an equal chance at the profits.

There is, of course, the possibility that everything possible will be done this fall by the manufacturers who have refused to enter into the growers contract, to discourage its further practice, even if they find it necessary to curtail their own profits by lowering the price of sugar to do it.

Let every grower who has signed the "50-50" contract, pledge himself to stand by the plan for three years-win or lose-if he will, we risk the prediction, that before the three years have elapsed, every manufacturer in Michigan will have offered the same or a more attractive proposition to the growers.

When you hear a man knocking the "50-50" contract, ask him how long he's been on the other fellows "pay-roll", its a safe bet he is there, one way or another!

NOW ADVISES PARTICIPATION IN LEAGUE

THEY do President Harding and the present Republican administration an injustice who seek to poke fun at the recent announcement that the president and Secretary Hughes

are about to stump the country in favor of participation in the World Court of the League of Nations, as did Woodrow Wilson, only a few years back.

Better late than never! And far better the United States, leader of civilization, that we accept our responsibility and contribute our strength to a plan which has for its foundation, at least, the abolishment of wholesale slaughter of human beings, in the avowed cause of patriotism, to settle disputes bteween nations.

What matters it now, if in the heat of partisan politics our eyes were clouded by the smoke screen of propaganda, three years ago? What matters it whether Democrat or Republican is to be given the credit of helping to form the League? What matters anything under Gods heaven, when the question is whether it is possible to prevent so fruitless a butchery of mothers sons, as we who live to-day have just witnessed!

Families live in peace, communities live in peace, states and provinces in peace, great

cent address.

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PUBLISHER'S DESK

WARREN MCBAE FARM AGENCY We assume that by this time our friend, McRae, the philanthropic farm agent at Logansport, Ind., has joined the ranks of those who are not particularly fond of The Busi-ness Farmer. It is lucky that we do not reach every farm home in Mich-igan or Mr. McRae would have to change some of his tactics in getting former to coll farms to sell.

Since our exposition of his letters and methods in the February 17th issue we have had any number of letters from our readers, not all of whom paid the ten dollars, but all of whom got similar letters to those we published in that issue.

The one that interests us most and should encourage those who have paid Mr. McRae his listing fee. whether \$10 or \$2, is one dated September 21st., 1922, and address-ed to a reader at Cloverdale, Mich., which contains the following paragraph:

If you are looking for a good quick cash sale, kindly fill out the enclosed listing form and return it to me with the regular listing fee of \$10.00 and I will guarantee to furnish you with a buyer for your property at your price and terms within 90 days or I will return your. \$10.00 in full. When the deal is closed you pay me 2 per cent commission of the selling price. In case the first buyer does not buy notify me and I will keep on sending you buyers until you make a deal.

If Mr. McRae will make this pro-position to every reader who has a farm for sale and will prove to us that he will return the listing fee, if he has not sent a buyer for the farm within 90 days, we will agree that his proposition is perfectly legitimate and he has only erred in the manner in which he has presented it.

It seems a little strange however, that in the many form letters, most of them dated later than the one quoted above, we have seen no men-tion of this very important "sell-your-farm-or-money-back" guarantee.

"We are subscribers to your paper and we, too, got a letter from Warren McRae. He ran an ad. In the Alle-gan News for a few weeks and we were thinking of selling our place so I told my husband that I would answer the ad thinking that it was a man that wanted a small farm in Mich. and I enclosed an envelope addressed with 2c stamp for reply but instead in a few days we got a letter and some papers to fill and if we would send \$10 he would send a buyer and if the first didn't buy he would keep sending until our place was sold and then he would return our \$10.00. The letter was similiar to the one you printed in the paper but we didn't answer and in a few days we got another letter stating that for a limited time he would reduce it to \$5.00. He is very generous but I think he didn't get any one around Allegan county and we are sorry for that widow woman that sent her money to him, woman that sent her money to him, because it is doubtful if she ever gets it. I see in the Grand Rapids Press that he is running an adv in it for Kent county. I hope nobody falls for him. All we are out is the 2c stamp and I am sorry he got that much. Such people should be pun-ished.—Mrs. J. H. P., Allegan Co., Mich Mich.

POOR HENRY!

Few days pass but what The Busir receives a letter from some reader who wants to put a pro-It position up to Mr. Henry Ford. It may be like the one before me, a may be like the one before me, a farmer who owns sixty acres on which he has been paying taxes for years, up in the Minnesota iron ore country. It lies in between the country. It lies in between the property of a great mining company. Our reader claims it has been illegal-ly lumbered over and now he is afraid the mining company is going to take out the ore from beneath his land! That's being attacked from above and below; we should say.

Where can our reader turn for advice? He comes to us. Where can he get help to fight the gigantic fin-ancial groupe that is robbing him of his heritage? From Henry Ford,

He makes enough milof course!

of course! He makes enough mil-lions while his eyes are closed in slumber to relieve half of the finan-cial worries that beset the poor folk. So they come. But, we have to advise that about the hardest man in the civilized world to reach with any proposition, philantrophic or busi-ness, is our worthy neighbor at Dear-born. His personal mail is larger, 'its said, and his staff of personal secretaries busier than that of the president of the United States. Mr. Ford is a plain man, very hu-man, emotional and extremely mod-est. Yet he represents a mass, of worldly wealth which attracts to Dearborn the dreamers and the schemers from every corner of the

schemers from every corner of the schemers from every corner of the world. Probably most of them are honest in their purpose, but it still remains, that all of them come to get some part of that pile of gold, whether their desire be for much or little of it.

They used to say that "everybody sometime in a lifetime has an over-whelming desire to write a book." now if this old saw were changed to "everybody some time in a lifetime wants to put a proposition up to Henry Ford" it would be more truthfully a statement of fact.

TAXES \$120 IN 1905, JUMP TO \$602 IN 1921.

(Continued from Page 3)

(Continued from Page 3) a club at every turn, the State In-come Tax, would have helped, but met defeat last fall. A tax on gaso-line would also bring some relief, but some of the city auto clubs, object because the farmers use it to run their farm machinery, (however I never talked with any farmer who objected). Then some propose to tax the weight higher, this plan has met with the objection that the rich cannot sell their of cars to the poor as they could not pay the tax, and it would not be just to tax an old worn our car with such high tax. Another wants a poll tax of \$5, on each voter, I would be glad to see them all pass-ed in order to get something out of ed in order to get something out of those who are now paying no tax, but have full use of our roads and schools.

Our large manufacturing cities where wealth is concentrated, are paying millions of dollars in large salaries to people who pay no taxes, but who own and operate large and expensive carg and the tax on real expensive cars and the tax on real estate must build their roads and schools for their children, they rent city homes, and the city land lord gets back at them for his high tax by beosting his rents. The farmer has no way of getting back at any

one. There is only one way to help the farmer, that is to relieve him of some of the burden he is now bearing in heavy taxes, and until our national government takes over the roads, our state should take some action at once. There is a way to relieve the real estate tax, which no honest person can object to. Put a tax of 4 per cent on the selling price of all autoes trucks and vans of all kinds as well as on motor cycles. etc. This on the selling price when new, then make a reduction of 10

per cent for depreciation for each year the vehicle is run, for five years, after that tax it for 50 per cent of its value new as long as it is run. This 4 per cent could be increased or de-creased as the times may require, but at present some of the real estate is paying 7 per cent on an inflated valuation set by out State Tax Com-mission at a time that was pre-ma-ture for such an act, and he is not allowed 10 per cent on his property work the property of the second s each year for depreciation. The government is offering him a Federal Loan, but that is like knocking a person in the head with a club and then

son in the head with a club and then selling him a plaster. The only relief to any one stagger-ing under a heavy load is take part of the load from him. Remember the laws of Confusius, "The Strong must help the weak bear their heavy burdens." Yours for a good and hencet Conversion. burdens." Yours for a good honest Government.—Ed C. A Allen. Osceola County, Mich.

President Harding broke White House records of several months standing when he shock hands with 1,450 persons in a recent reception.

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and stringing are entirely eliminated. The tongue adjustment for leveling the boots insures an even cross check. Fertilizer attachments always available.

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KEEP THE BUSINESS FARMER COMING-SEE PAGE 13.

What the Neighbors Say

MISSES SERMON EAR Editor: We have been reading M. B. F. for two years and like it very much, we find of information in it too. The lots only thing we miss is a scripture text, Sermon. We out here in the woods feel rather lonesome on account of

not having church preveliges. In reading our M. B. F. we also enjoy "What the Neighbors Say" and it is indeed a pitty that we as people of our good America can not cooperate together. Where is the democ-racy of our good U. S. A. going to? Our Government is ever ready to fix a price on Farmers Products, as dur-ing the war to cut the high cost of living, but the consumer had to pay very near the same old price for his flour as before. Now today the farmer has to sell his stuff at a sacrifice, but who is gaining by it; surely not the consumer? For instance, cattle that farmers sell, from 3 to 6 cents per pound, how much do con-sumers in cities pay for their beef in butchershops? Who gets the profit, surely not the farmer and the consumer!

Why can't we see the pure fabric law passed? The "all-wool" gargarments we buy nowadays don't last at all, the best that can be made out of pure virgin wool would be none too good for the consumer. Had ought to pass by all means.

Now they talk of reducing the taxes, but we farmers have to pay more every year, how about it? Our government should adopt "Single Tax" (Canadian style) so farmers would not have to pay a "fine" every time they improve their Farms. Farmers are all anxious to sell out and move to the city. The boys have and move to the city. The boys have gone already, who is going to product the nation's grub in the future under such conditions if this city move can not be stopped? Why can we as a nation not take an example from Europe? It has gone to the dogs just because of oppressing the poor. We read in Luke 13:1-3, "There were present at that season some that told Him of the Galleans, whose blood Pilate had mingled with their sacrifices ** * and Jesus answering sacrifices * * * and Jesus answering said unto them, 'Suppose ye that these Galileans were sinners above all Galileans, because they suffered such things? I tell you nay; but except ye repent, ye shall all likewise perish.' " The judgement of God perish." The judgement of God has come upon the old countries, and will unfailingly come upon us unless, we repent. The heavy tax burdens have to go or we farmers of America will not much longer be able to pro-duce stuff to live. May God guide our leaders and keep our country from disaster if not independent from disaster. If not, judgement will come as we read in James 5:1-6, "Go now, ye rich men, weep and howl for your miseries that shall come upon you. Your riches are corrupted and your garments are moth-eaten. Your gold and silver is cankered; and the rust of them shall be a wit-ness against you, and shall eat your fiesh as it were fire. Ye have heaped treasurer together for the last days behold, the hire of the laborers who have reaped down your fields, which is of you kept back by fraud, crieth; and the cries of them which have reaped are entered into the ears of the Lord of Sabaoth. Ye have lived in pleasure on the earth and been wanton; ye have nourished your hearts, as in a day of slaughter. Ye have condemned and killed the just; and he does not resist you." We have felt it our duty to write these words, may the Lord bless them to his glory.—C. S., Oscoda County.

STAND UP FOR HER RIGHTS

I THINK a great deal of your paper and I read it carefully each week. Several weeks ago on the "What the Neighbors Say" page I read the piece written by Mrs. R. B., Ohio, and I can't resist writing a few lines in answer to it. I really

pity her. I don't believe in the women vet-ing and I do not vote. I feel that ing and I do not vote. I feel that is for the men, but I do believe in "personal freedom." I must say I think Mrs. R. B. has just lest out and right now if she takes my ad-vice she will turn a new leaf, tell Mr. R. B. that she has served her time as a servant in her own house

and now she will manage it to suit herself, do her work just to suit her-self. She sure must know how by now, after being told for 16 years. that she will relive him of the duty to see to it, also from now on to use her own butter and cream money also egg money as she see fit. Tell him kindly but firmly and plain-ly that she means it and stick to it. may not be pleasant for her for

It may not be pleasant for her for a time, but she can win out if she has the grit. Do not quarrel with him or have any angry words. Kindly tell him just what is what and mean it too. The very idea of his buying her dresses. Does she buy machinery for him? Oh no, of course not, she doesn't know what kind he likes best. He may try a new kind next time. How about the dresses, she How about the dresses, she time. time. How about the dresses, she might like a change too and surely the liberty of getting just what you want and being suited is worth a lot, and if ever you have any rights while you are young enough to en-joy them and use them the time is what they have a comed right new. What they have earned together is hers as much as his. Suppose she, not being used to having her own money, does make a few mistakes in buying. He, I know, has not always hit the market just has not always hit the market just right. It is worth something to try and to feel you really live and not just simply exist. Get your nerve up and stand up for yourself, don't cry or scold. He will honor you twice as much for being his equal.

Now as to a way to go to church. Are not the horses as much hers as his? I say yes. Tell him you want one to drive and have it, or if you can't, just hire someone to take you and let him pay the bill a few times. He will soon see it is cheaper and sounds better to take you you self.

Now I am a farmer's wife have always lived on a farm. I have been married 24 years. We always talk things over and work together. I have never asked for a horse and been refused, but I never ask when I know they are busy; in fact I have a horse of my own. He always works my horse and I never interfere but when I need him I say so. I always sell my eggs and cream and we use the money the same as when he sells grain or stock. If he did not then I would keep the egg and butter money for my own self but I think it better to work together, but equal rights I shall have. I have always worked in the field and do yet. I do not believe in

and do yet. I do not believe in either one being the boss. I have no children. He goes where he likes to sales, all men enjoy them. I go where L wish. We do not always think alike—far from it—but we compromise and I think any man thinks more of his wife if he under-stands she is his equal.

I do not belive in parting or di-vorces but can say Mr. R. B. should have changed his ways long ago. If he loves her as he should the mother of his children he will see his mistake and gladly make right his mistake and gladly make right the wrong she has endured. If not, quit. The world is wide and there is room for us all. The days of tyranny are past. What good time is she having, to alawys live on an uncertainity, never know whether she can go anywhere or do anything unless he says so. This is what I think. What do the other readers say?—"Mollie Brown," Michigan.

THE FARMERS' TROUBLE-OV-

THE woes of our farmers are chief-ly due to the same has deranged our coal mining industry. To many are in the game, causing verproduction. The great rise in the price of land, which has doubled, and in some cases trebl-ed and quadrupled, in the last ten years, proves this. If the poor and remote farms and mines (which comprise over one-fifth of the total) were abandoned, it would encourage the others to produce to capacity, insur-ing bigger crops at lower cost, and it would release a lot of first class labor to other industries. Farmers, in-stead of deplering should welcome every increase of wages in other oc-cupations, as it decreases the number (Continued on Page 19)

The Remarkable Growth of Fur Farming BY DR. C. B. SHORE

SINCE the creation of the world earth, the first clothing worn was that of furs. Man's first choice of wearing appearel has been passed down through generations and has been in continuous use by all nations and peoples.

Since the rapid advance of civili zation, those wild animals that bear suitable furs for wearing purposes, are very fast becoming extinct, and today the trapper must of necessity, look elsewhere for profitable income Furs of all species are in constant demand throughout the whole world. I believe no other industry in this Northwest country promises such profitable returns as may be realized from the domestication of fur bearing animals.

Ing animals. I shall speak principally of the domestication and production of the standard bred silver fox fur. This fur, exclusive of the Russian sable, which cannot successfully be raised in the United States, is of a distinct-tive class and cannot be successfully in the United States, is of a distinct-ive class, and cannot be successfully imitated. For this reason its pelt is capable of procuring very profitable results for the rancher. Silver and black foxes are classified into four distinct types, depending on

into four distinct types, depending on the quantity of silver tipped guard hairs present in the pelt. The classes are designated as black, dark silver, medium silver and light silver. All types are necessary on the aver-age ranch. The demand at present age ranch. The demand at present is for dark and medium pelts and these are produced largely by mat-ing black animals with light silvers. Much care and thought is given to the mapping out of a definite breed-ing program on the large ranches.

Most of the northern states are ad-mirably adapted for fox raising. The humid, cool atmosphere in the northern states makes a dense, dark pel-age on fur animals that always comage on fur animals that always com mands top prices in the fur markets. In addition, the entire region poss-esses a wealth of lakes, marshes and rocky, hilly, timbered lands unfit for cultivation, but furnishing unequall-ed sites for the prospective fur farm-

er Early breeders thought that foxes would not do well in captivity unless ranched in secluded spots. This has been disproved by the phenomenal successes of American ranchers, most of whom operate in thickly settled communities. It would, of course be inadvisable to build a ranch immediately adjacent +) a large factory along railroad or trolley tracks or in the heart of a city. Ranches may be built on the outskirts of villages and towns, along rural highways or within a reasonable distance of farm buildings without danger of creating unfavorable conditions.

The chosen ranch site should, first of all, be carefully considered from the drainage standpoint. Fox pens should be erected on a well-drained piece of high land. Foxes will not do well in a swampy hallow, where do well in a swampy hallow, where the soil stays damp for long periods. Disease breeds readily in damp loca-tions of this character. Clay or heavy black loam top-soil should be avoided. If possible, choose a loca-tion with a clay subsoil and a gravel or cond top soil or sand top-soil.

Many ranchers make the mistake Many ranchers make the instate of placing too much stress on the shade requirements of a fox farm site. Proper soil and drainage are and should be foremost. Some of the most successful ranchers have discovered that forces kent in pens discovered that foxes kept in pens erected in the open have been re-markably free from disease. This is undoubtedly due to the fact that disundoubtedly due ease germs cannot exist in soil subjest to the direct burning rays of the sun.

Considering the value of the animals, guard fences, pens and kennels are comparatively inexpensive. Frame works can be built of cheap lumber left in the rough or of the best, carefully fitted and painted. In building a large ranch it will pay to lessen depreciation by using high grade materials. Wire should al-ways be the best obtainable.

The size and shape of breeding and rearing pens differ considerably according to the area and physical characteristics of the site. The dimensions of pens very from 90 feet in length by 30 feet in width to 30 feet in length by 10 feet in width. Height depends on the average snowfall. The pen should be high enough to permit an average sized man to walk around in same without stoop-ing. Allowance must be made for depth of snow.

In some ranches pens are laid end to end and side by side across the ranch, pens and alleys detached or separated by alleys from two to ten feet in width.

A successful breeder has experimented with various types of fox kennels or dens. After giving them thorough and conscientious trials he has found that a simple double kennel with separate entrances will suffice. The remarkable record of 2 1-2 to 3 1-2 pups average to the pair on his ranches would indicate that his adopted style of kennel is far superior to any other. His kennels are double walled and

are placed on a block foundation two or three inches from the ground, thus insuring warmth and dryness. The roof is hinged and serves as a lid. The kennel is divided into two separate compartments with covered chute entrances approximately four feet long inclining from the kennel open-

ing to the ground. The breeding season on the fox ranch lasts from late January to March. The gestation period is ap-proximately fifty-one days. This period, together with the early rear-ing or pupping season, constitutés most critical time of the year on the fox ranch.

As a rule, the animals are monogamous, the dog rarely mating with more than one female. Segregated pairs must be carefully watched during the breeding season and if harmony does not prevail, the vixens are paired with new mates, the object being to produce a litter of fox pup-pies in every den if possible.

The litter ranges in numbers from one to nine, the average on many of the ranches being 2 1-2 to 3 1-2 is remarkable. Males which are left with the mother and young. They take care of their share of the parental duties and are absolutely necessary in the pen for the first few days after the young are born, as the vixen relies largely on her mate to carry food to her.

Fox puppies are blind for the first two weeks of their existance. They grow rapidly and usually appear outside the kennel when one month old. Within a short time they learn to lap milk from a basin and when two months old include solid foods in their diet. The mother fox will wean them when three months old. Fox puppies attain sufficient size and fuality of pelt by the first of Decem-ber following the month in which belt they were born that they may be pelted at that time. Even if the price of breeding stock

be brought to one-half or less of its present level, and pelts bring only \$100 apiece, there will be left enough profit to make the industry while.

An open invitation is extended by many breeders during the summer months, to visit their ranches. Some raise, besides hundreds of pairs of silver foxes, deer, buffalo, raccoon, wolves, different species of birds, and German police dogs.

"Everything comes to him who waits But here is something slicker. The man who goes after what he wants Gets it a darn sight quicker."





Get Rich Raising Foxes

We Show You How---We Start You Right The money you can make in raising foxes, if you get the right startthe right help, advice and co-operation, is so enormous when compared to ordinary farming, as to be almost unbelievable. Six months old fox cubs of our quality bring from \$2,000.00 a pair up to \$5,000.00. Single pelts from \$300.00 to \$1,000.00. It takes some capital to start-\$500.00 to \$1,000.00,—but our installment payment plan takes care of that—your profits will soon start you on the road to a fortune.

De Luxe Silver Black Fox Ranch

is owned and operated by men who have had years of experience. Quality has been our slogan and as a result we have breeding stock that is second to none in the United States. We are now booking orders for 1923 cubs. Our supply will be limited, so we advise writing to us promptly. We are fully equipped to care for your foxes, breed them to unrelated stock, help you sell your offspring, get you started right and then assure your success. Write for full particulars today, if you want to get into the most profitable and fascinating kind of farming you ever experienced.

De Luxe Silver Fox Ranch, Manistee, Mich.





On the better farms you always find implements of the highest type—because they assure the modern agriculturist long and efficient service and the greatest crop return.

Then why not assure yourself of the greatest possible use of your feet by protecting them, your health, and pocketbook by always demanding—Grief Defying ROUGE REX SHOES For Wear and Comfort for Dad and Son!

HIRTH-KRAUSE CO. FROM HIDE TO YOU Shoe Manufacturers and Tanners GRAND RAPIDS, MICHIGAN

BUSINESS FARMERS EXC! ANGE Ads Under this Head 10e per Word, per lasue

FARM AND LANDS

\$1500 GETS SO. MICHIGAN FARM. SO scress fully equipped 110 bu. corn 25 bu. beans, 60 but ests, 1877 sugar beets prown to acre; schools, marse, churchas; convenient R. B. town; city markets; 70 acres tillable, wire-fenced pasture; upples, pears, plums, charries, peaches, berries; spies, pears, plums, charries, peaches, berries; heat barn, granary. Owner unable to operate 16600 grit H. 3 horses, 100 heans, vehicle, tools, market H. Stilled Son. Dekns, vehicle, tools, market M. Stille Bars, and Star J. Stree Huntrated Catalog Bargains, Jest out. STROUT ARM AGENCY, 427KJ Marquette Building, Unicago, Illinois.

200-ACRE FARM LOCATED IN CALHOUN ounty 6 miles from Batile Creek; large barn, arre barns, silo, bast of fences; one of the best bart up farms in miles; best of market facilities; when he old to work farm, must sel; this has heavy been an excellent money-making farm; wrice 150 per acre; we invite inspections. Adtrees ALBERT J. HUGGETT, Bancroft, Mich.

ONE DOLLAR AN ACRE-LET ME TELL you how to obtain 40 to 640 acres of valmable mit-over farm land in Gladwin county, Mich., at 11 per acre each year for 4 years without interme palance 6 year mortgage at 6%, interest. U. 8. REYNOLDS, Gladwin, Mich.

FOR SALE CHEAP 13 ACRES WITH FRUIT -1400 trees, also lot of berrics, land good, truit good, all inside the limits of this city, is to other business. H. J. HEARD, Croswell, Hohigan.

SO ACRES, GOOD HOUSE, 40 FARM LAND 40 swamp, Gmas and water good for ministrat paining. Rent or sell. Inquire BOX 232, care Michigan Budness Farmer.

120 AGRES NUMBER OME LAND, BEST OF mildings, fruit, timber, one mile to Dirie Highmay station, church, schoel, 20 miles from Derait. R. W. ANDERSON, Clarkston, Mich.

NY GOOD 120-ACRE FARM, STOCK AND bolk charge. Fart cash, mull yearly payments by populations write owner. MIS, MIN-MIN HOILNING, White Olevad, Michigan, R. 2. 15 FARMES AND 3 RANCHES AT BARGAIN Friend D. charge an Status. These productive entrail Mostean for Status These productive sentrail Mostean for Status These productive sentrail Mostean for Status and a casy symmetric C. Le ROSIC, Streetto, Frent, Mich

FOR REAT 175 AGRE FARM, NEAR NEW Palithours and harming hand HERMAN BEN-RENNER, 90 Okton, MA Okamena, Michigan, WRITE FOR OUR FREE, LIST OF 50 GOOD Annus, DocOURDERS, Bhomainrich & Mich

HELP WANTED MALE

SALESMEN, GREAT OFFORTUNITY FOR makers to make his mover saling sile and waters on liberal commission and homas. Unlinter prospects for man who hnew here. Old about the same of the same of

WANTED 61N CLE MAN FOR YEAR Prefer some fosding experience, good wasse and good home. State wayes in first letter. Tartion pen April 1st. CHAS. HAUCH, Whittemore. MARRIED MAN TO WORK A LARGE FARM in Oakland country on shares. This is one of plack land border the factor of the country rich level plack land border to a beautiful lake, with mrs. Good large housen lots of other buildmars and necessarily absent outs of other buildback land border the border of the line, or hand an becessarily absent of the best man obtainable. Must be able and willing best man obtainable. Must be able and willing best man obreceived by one of the best man obman and necessarily absent be the best man obtainable. Must be able and willing best man obwery possible equipment, even to trace the more will furnish up to 30 cows for dairying. The bas were the best of the constraint for ony year with mat will be compelled to furnish and dairying. The state of the smart an ready to make the most liberal abarring proposition ever offered the most liberal abarring proposition ever offered the data liberal Avenue, Detroit, Michigan.

WANTED POSITION OUR SUCCESSFUL farm manager, S6 years of age, widewer, no obliditen. This man is honest, clean and a hard intelligent worker. Graduate U. of Wis. and life apperionce as farmer, Address him, HERMAN R. FRANZEN, Akron, Lancaster County, Pa.

WE PAY \$200 MONTHLY SALARY, FURNish rig and expenses to introduce our guaranteed poultry and stock powders. BIGLER COMPANY, X682. Springfield, IIL.

WANTED-TWO SINGLE MEN TO WORK on farm. Goed environments. MITOHELL BROS., Holly, Michigan. Bell Phone 64-F-21.

, PLANTS AND SEEDS

STRAWBERRY PLANTS FOR SALE. SEMAter Duniap, Gibson and Dr. Burrill, 60 ets. per hundred, 54.90 per thousand. Pestpaid. Progressive Everbearers, \$1.00 per hundred. Postpaid. Cuthbert Eed Raspberries, \$1.00 per hundred, \$8.09 per thousand. Postpaid. ROBERT J. DeGUERE, Ovid, Mich.

STRAWBERRY PLANTS FOR SALE—SEN. Dunhap \$3.50 per M. Frys other varieties. Also Rasperry planta fries list free, FRED STANLEY, 124 Man St. Sangor, Michigan. CERTIFIED COLLEGE WONDER OATS. Parity 99.7%, germination 92, test weight 37 rounds. Write for prices. HOMER GOULERT, Kawkawim, Michigan.

CERTIFIED WOLVERINE OATS-MICHIma's lacking variety. O. D. FINKBEINER, Greenwood Farm, Clinton, Mich.

JEN KRAL

LET US TAN YOUR HIDE-COW AND Horns hides for fur coats and Robes. Cow and Rosen hides into Harness or Sole Leather. Catleg on request. We repair and remodel worn must estimates furnished. THE CROSBY FRIS-IAN FUR CO., Rochester, N. Y. FARMERS, BOOK-REFERS, STUDENTS, I an and will bach you in one minute's time the

TARMERS, BOOK-KEEPEPS, STUDENTS, I son and will bach you in one minute's time the bach's proof of any som in addition, she simplineed and the second states and matinging and the second second states and will diminate them. Bread \$1 for the lesson of the cost ma 100, Address G. H. HOLLISTER, Twining, Michigan.

WANTED TO BUY BLACK PERCHERON tallion or dark Balgian. What have you? O. L. CULBERT, D. V. S., Chesaning, Michigan. Children's Hour

DEAR Nieces and Nephews: Did you ever hear of a tree called the "cow tree?" There is such a tree and it grows in South America on the broad barren plateaus of Venezuela. The sap of this tree resembles milk both in taste and appearance, and, is not only wholesome but nourishing as well, .cording to naturalists who have examined it. It is said to be not very different from rich cream aside from a slight balsamic flavor. The trees often grow to a height of one hundred feet and have no branches within less than eighty feet of the ground. The bark of the tree is generally smooth. If a hole is bored or any sort of a wound made on the bark, the milklike fluid will commence to flow and continue for days until it coagulates at the mouth of the wound and forms a waxy substance which prevents further flow. I would like to see one of these trees, wouldn't you?--UNCLE NED.

OUR GIRLS AND BOYS

Dear Uncle and Cousins: 1 wrote a letter last fall, and seeing it in print, I thought I would write again. When I wrote I ask the boys and girls to guess if I was a boy or a girl, by my name, Leslie. I said if they guessed correctly I would write them a long letter. I received about fifteen answers of which some were right and some were not. I am now corresponding with five or six of them. Well, as my friend and I want go skiing I will close with a few riddles. How many peas in a pint? Answer: One p. What is the commonest put-up job you know of? Answer: Paper on the wall. Why does a tall man eat less than a short one? Answer: Because he makes a little go a long way. What kind of a cape does a prisioner like best? Answer: Es cape. Where can all the words of our last foolish conversation be found? Answer: In a dictionary. Patch upon patch and has seams. Answer: Cabbage. Well I guess it is too late to go skiing now, so I guess I will close for sure. Your cousin and niece, Miss Leslie Hillard, Cadillac, Mich., E. No. 2, Box 69.

Dear Unele Ned: I was out to my grandpa's Feb. 19th and got interested in reading the Children's Hour in M. B. F. This is the first time I have ever written you a letter. I am twelve years of age and in the sixth grade. I have six blocks to go to school and live right on the river bank. I have two sisters, one eleven years old and the other four years old. How many Valcatine. did you get? I got between one and twelve, and the one that guesses how many I got I will write a letter to. We just posted our Africa maps and are about to take up the study of Australia. My father is the general delivery groceryman in St. Louis. I use to live one a farm one mile and half west of Forrest Hill. We had sixty acres of land, and believe me we used to raise crops. We have a farm two miles south of Elm Hall now but I live in St. Louis. My dad has a different car or farm nearly every day. Well I guess I had better clese for this time—Clayton J. Andersen, St. Louis, Michigan.

Dear Uncle Ned: I see by the M. B. F, that I am not the only silent reader of your paper. My father is a reader and subscriber of 'he M. B. F. and likes it real well, especially the article about Henry Ford. I thought I would write a few lines tonight as I just took a notion to write a letter. I just 'onder if this letter will escape the waste basket. I don't see many letters in the M. B. F. from here. I am sweet sixteen, and have the oldest and my youngest sister was a week old last Friday. The answer to the riddle of L. D. Biddle is, a flat from. Say, I like the poem about "The Wood Box." I don't have to help carry in the wood but i have to help saw I and I don't like that very well. I haven't sawed any for over twe weeks, on account I was sick a week and the other week I had to keep house. Say, Uncle Ned, I am not getting the spring fever but have already had it. Ha! Ha! Well, I guess I must close as this 13 getting to be a long letter. Best wishes to you and the cousins. Your njece, Miss Trecel Sweeney, Cadillac, Mich., R. R. No. 2.

Dear Uncle Ned: This is my first time writing to you I am a girl of 16, I'll be 17 May 20th. I have dark hair and eyes. I am five feet tall and have passed the 9th grade. I signed for the Michigan Business Farmer just last summer and I like it very much. I am writing to a girl in Lansing. I found her address in M. B. F. I like her very much. I will tell you her initials and if you guess her name I shall write another letter (E. P.) Will some of the nieces and nephews write me a letter, please? Your loving niece.—Louese Irene Barker, Route No. 3, Box 102, St. Louis, Mich.

Dear Uncle Ned: I have never written before. May I join your merry circle? I enjoy reading the letters in the Children's Hour. I am nine years of age and in the sixth grade at school. Well, I will tell you about our valentine day at school although my letter is a little late, the old saying is "better late than never." We had valentine cookies and pop corn. I got twenty-nine valentines and my brother got nine. We are writing a composition about George Washington. Who ever has the neatest one gets a prize. No one got the prize yet. Please, some of the girls and boys, write to me.— Ruth Pobanz, Owendale, Michigan, R2, Box 59.

Dear Uncle Ned: I have read the M. B. F. so long I thought I would write to you. I am 5 ft. 4 in. tall. I have a light complexion and brown hair and blue eyes. My age is between 12 and 16. Any one guessing my age will receive a nice long letter from me as I love to write letters. My birthday is on July 22. I live on a 160-acre farm. We have 8 cows, 2 pigs, 2 horses and 4 sheep. I have one sister and 3 brothers at home. My sister is 11. Her name is Amy. My oldest brother is 17. His name is Harold. One is 15. His name is Carl and the third one is 6 years old. His name is Leon Graves. Well, I guess this is enough for now, so will close with a few riddles. Why is a caterpillar like a pancake? Answer: Because its the grub that makes the butterfly. What is the key of good manners? Answer: B natural. See who can guess this one. Why is an important young lady like a music book? I will tell the answer in my next letter if no one guesses it. Will close hoping to hear from some of the boys and girls. Will answer everyone I can. I remain Your niece, Miss Marie Graves, R. 1, Box 88, Manton, Mich.

<text>

UNCLE RUBE SPINACH SAYS

THE FOUR SEASONS.

WINTER, the time of year 'at most everybody dreads, is near-ly past. In a few days it'll be g. Spring is so beautiful an' spring. Spring is so beautiful an' lovely 'at everybody loves it. Flow-ers begin to bloom in springtime an' folks al'us say "Ah spring is the most beautiful time of the whole year." Mebbe 'tis, mebbe not, it's jest as we look at it, what makes it beautiful or not. The springtime sure is a lovely time. Summer comes right after the spring an' who can say 'at sum-mer isn't a lovely time? An' then when Autumn comes—Oh Boy— she's a lovely time too. Leaves all turned to gold, walnuts an' hickory nuts fallin'—the season's comin' to an end when autumn comes. Spring, summer, fall an' winter—somehow you know I like 'em all. Sometimes I think spring best-young life jest startin' out-so it is with humanity. Springtime—time of love an' every-thing. Summer—gittin' together an' life is all lovely, green like the grass, flowers kinda growin every place—nothin quite like love in the summer time. An' then comes Au-tumn—leaves are turnin' yeller— golden they are an' in our lives we see life in a more serious form. Many of our young folks have decid-ed to marry now—good luck go with ed to marry, now-good luck go with them, and may God help them. Well, alright-I like the season's jest as they come. I watch men as they go through the different stages—spring, fall, winter—an' all I see— men that fall, winter—an' all I see— men that have entered into the—well, we'll call it the winter of life—hair gray, mebbe white, no matter, they give up —the gray hair makes 'em old an' then they become just grouchy ol' cusses—you know what I mean? When a man begins to think winter has come into his life he's just 'bout all alone. An' I'm talkin' of women jest as much as I am of men. Women git old—they feel, talk, an' act old. Yes, even in our life time, winter is not so bad. Look with me if you will, at the man or woman, silverwhile hair that shames the snow-drifts but with a smile that matches the flowers of spring. Yes, they are in the winter of life, and could make it somber an' very disagreeable but they don't. God bless the man or woman with silver-white hair that still sees the sunshine of life-that sees the beauty of it all-those who have sympathy for, an' mingles with the young. To them there can be no real winter—there is no winter to any of us unless we look through any of his unless we look through gray an' wint'ry eyes. Oh yes, my friends, I love the springtime 'cause everything speaks of new life; but I also love the summer fall an' winter —not only of the seasons but of life itself, an' of all the seasons I think the mintr iset the best 'creating' if the winter jest the best-specially if we try to make the winter season-whether of life of natur' the best season. Are you linvin in spring, summer, fall or winter? An' are you makin the most of your seasons? --Cordially yours, Uncle Rube.

THE TRUTH ABOUT HENRY FORD (Continued from page 9.) Mrs. Edison and Mrs. Ford are to be the only two women on this ex-ecutive memorial board.

At the beginning of the European war Mrs. Ford leased Oughtrington Hall, in Chestshire Township, Eng-land, a short distance from War-wick, where her mother was born. She equipped it as a home for Belgian refugees; one hundred at a time were clothed, fed and sheltered As they found friends, relthere. atives or work was secured from the London clearing house. Teach-Teachers were employed for the children; a school room was furnished; out-door tennis courts were covered and heated for a supervised playground. Tailoring and other trades were taught the refugees. Among them was a Catholic priest, and a chapel was equipped in which he said mass and held other services. Wonderful results were accomplished, as is attested by letters and documents from the Lord Mayor and others. After the armistice the furniture and equipment were sold and the proceeds placed with the Manchester Belgian Relief Fund to be used by that organization. When Elizabeth, Queen of the Belgians, visited this country, Mrs. Ford was one of the few women on whom she bastowed

her medal which is inscribed: "Pro

patria Honore et Cartate." Mrs. Ford's most intimate friends are those she knew in girlhood or before the advent of automobiles. Her poise and culture, her innate goodness, makes her immensely pop-ular. Her judgement and clear inular. Her judgement and clear in-tellect have been of untold value to her gifted husband. Their ideal home life is a happy demonstration that love does not dwell only in a cottage. The following incidents somewhat indicates her tastes. Shortly before the holidays in 1920, while she was shopping in New York, the clerk of a Fifth Ave-nue shop asked her to inspect the Duke of Hamilton's silver service. It weighed seventeen hundred pounds, and was heavily crested. It had been sold to a young mid-west-ern manufacturer to match his dinern manufacturer to match his dining-room set, also purchased from the Duke's estate. "Would Mrs. Ford care to place an order for similar silver?" She has a vivacious and cordial smile. "I have no ambition to col-

lect heirlooms of royalty," she re-plied. "My resources are needed elsewhere."

The undaunted clerk produced a short string of pearls, each as large as a hazel nut. "Only a half mil-lion dollars," he urged suavely, as he laid them on the black velvet square to accent their creamy sheen and luster.

Mrs. Ford shock her head. "At home I have the finest jewels in the world," she remarked, as she con-cluded her purchases. "Nothing you have on sale can equal them." The Fords have a son; his home is ton miles cast of Detroit in

is ten miles east of Detroit, in Grosse Pointe on Lake Sainte Claire, near the point where it joins the Detroit River. The Henry Ford estate is ten miles west of the city on the Rouge, which also flows into the Detroit Biver. the Detroit River. A private tele-phone wire connects Mr. Ford's study with his son's; a private wire connects Mrs. Ford's bedroom with connects Mrs. Ford s bedroom with the sleeping porch of her grand-children, Henry II and Edsel junior, chubby, golden-haired, blue-eyed cherubs. Like the Athenian mother, Mrs. Ford says: "These are my jewels,"

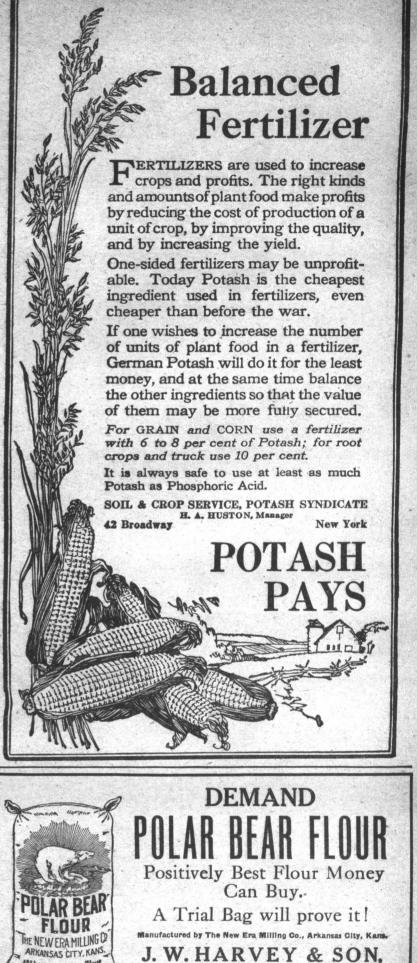
THE FARMERS' TROUBLE-OV-PRODUCTION

(Continued from Page 16.) of farmers and increases the number and buying power of farmers' cus-tomers. Any substantial reduction of freight rates can be made (until we have government ownership) only by bankrupting the roads of beggaring their employes. Lending money or giving credit to nations whose credit is exhausted to enable them to buy our surplus is practically making them a present of it. If our lawmakers really want to get our farmers more money for their crops, several nations have lately shown them a sure way to do so. The Japanese government, by taking control of the silk crop, has nearly doubled the price of raw silk in two years. Brazil has done the same thing with coffee. England is now doing like-wise with rubber and tea. As this country takes 75 per cent of silk, confree, and rubber that these nations, coffee, and rubber that these nations export, and they in turn take most of our surplus wheat, cotton, etc., it wouldn't seem unfair if our government, by taking control, made them pay enough for our wheat and cotton, at least, to give our farmers a slight margin of profit.—J. Tierney, Illinois

FARMERS' EXCHANGE SHOWS REMARKABLE RECORD

BEGINNING with a borrowed working capital of \$5,000 in 1900 the Eastern Shore of Virginia Produce Exchange at Onley, Va., which is composed of farmers on the narrow strip of land separating Chesapeake Bay from the Atlantic Ocean, has built up a business that is a conspicuous example of successful farmer cooperations in the opin-ion of the United States Department ion of the United States Department of Agriculture. In 1922, total sales aggregated more than \$9,000,000. A profit of \$57,000 was made, of which \$39,000 was distributed as patronage dividend and the remainder carried as surplus. At the close of business December 31 the exchange had an outstanding capital of \$31,000 and a surplus of \$265,000. The principal products sold are

The principal products sold are white potatoes, sweet potatoes, strawberries, cabbage, and onions.



Make the First Cost the Only Cost The value of a good silo reaches its greatest height in a Kalamazoo Glazed Tile Silo superior quality of Kalamazoo Tile means perfect ensilage. Stock raising and dairying are by far the most profitable types of farming, and silage is unques-tionably the most economical feed for livestock and dairy cattle. Tile Silo b use the tionably the most economical feed for livestock and dairy c **Kalannagoo** Tile and Wood Silos Our Glazed Tile silos are everlasting —decay-proof, storm-and pain bills. Three dead air spaces make perfect insu-hation stainst cold, best, dampness. Kalamazoo Tile is made paint to district our Wood Stave Silos have stood the scatter of the finest tile clay district our Wood Stave Silos have stood the scatter of the finest tile clay district our Wood Stave Silos have stood the scatter of the finest tile clay district our Wood Stave Silos have stood the scatter of the finest tile clay district our Wood Stave Silos have stood the scatter of the finest tile clay district our Wood Stave Silos have stood the scatter of the finest tile clay district our Wood Stave Silos have stood the scatter of the finest tile clay district our Wood Stave Silos have stood the scatter of the finest tile clay district our Wood Stave Silos have stood the scatter of the finest tile clay district our Wood Stave Silos have stood the scatter of the finest tile clay district our Wood Stave Silos have stood the scatter of the finest tile clay district our Wood Stave Silos have stood the scatter of the finest tile clay district our Wood Stave Silos have stood the scatter of the scatter of the scatter field clay fines and blue prints to fit requirements. Write for beauti-field clayer dillustrations of the Mederer Kalamazee Filas. Address Budding Fina Department. KALAMAZOO TANK & SILO COA Dept. 248 Calamazee, Mich HARE A HOMESPUN TOBACCO. CHEWING S pounds \$1.75; 10 pounds \$3.00; 20 pounds 4.25. Smoking 5 pounds \$1.25; 10 pounds \$2.00; 20 pounds \$3.50. Send no money, pay when re-ceived. CO-OPERATIVE TOBACCO JROWERS, Paducah, Kentacky.

Central States Managers,

MARION. IND.

48105 POLAR BEAR TOUL

FROM THE BALLAD OF READING GAOL

By Oscar Wilde. IN Debtor's Yard the stones are hard,

And the dripping wall is high, So it was there he took 'he air Beneath the leaden sky, And by each side a Warder walked, For fear the man might die.

Or else he sat with those who watch-

ed His anguish night and day; Who watched him when he rose to

weep, And when he crouched to pray; Who watched him, lest himself

Who watched him, lest hims should rob Their scaffold of it's prey: * * *

For oak and elm have pleasant leaves

That in the spring-time shoot; But grim to see is gallows-tree, With it's adder-bitten root, And, green, or dry a man must die Before it bears it's fruit. * * *

It is sweet to dance to violins When Love and Life are fair; To dance to flutes, to dance to lutes Is delicate and rare; But it is not sweet with nimble feet To dance upon the air.

I know not whether Laws be right, Or whether Laws be wrong; All that we know who lie in gaol Is that each day is like a year, A year whose days are long.

The vilest deeds like poison weeds Bloom well in prison air; It is only what is good in man That wastes and withers there; Pale Anguish keeps the heavy gate, And the Warder is Dispair.

WOMEN HAVE MUCH TO LEARN THE editor of this page recently

had an interview with former Senator Eva M. Hamilton of Grand Rapids. She says that women have much to learn in politics, that, "In the first place they do not back each other as they should, that they allow personal feelings to come in and befog the issue, that women are much inclined to be jealous of each other in politics and it being a new game in the hand of amatuers an unseemly scramble for honors is the result."

This desire to be the standard bearer among the women active in politics and the quite general indifference of the majority of women does leave much to be desired and yet a review of the bills that have been passed thru womens efforts and the constructive legislation that is under consideration gives the student of these matters much hope.

ent of these matters much hope. From its organization, the National League of Women Voters has believed in and worked for the removal of all unfair discriminations against women, under the law. In less than three years, sixty-three laws in twenty-six states have been secured to this end, largely through League effort. The greatest single federal disability left after women were given the franchise, has been removed and the citizenship of marriage as is the citizenship of men.

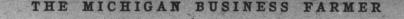
The League believes in, and works for, also, protective legislation which the experience of the world has shown to be needed for the good, not of women only, but of the race. Because we believe that women need a kind of protection which men do not need, we have worked for minimum wage laws, mothers' pensions, the 8-hour day for women in industry, the Sheppar-Towner law, and other measures necessary to safe-guard the future physical well-being of the race through proper consideration for potential mothers.

If you are interested in the work that the National League of Women Voters is doing write to the headquarters, 25 Traction Building, Peru, Indiana, for pamphlets telling of it's work. Write for Specific Bills for Specific Ills and enclose 10c. It is interesting reading.

GLAD OR SORRY?

THE Ballad of Reading Goal came to my mind this morning when I picked up the paper and read that once more Michigan had voted

against capitol punishment. The prison walls have given us





two very wonderful expressions of the English language. Pilgrim's Progress written by John Bunyan a saintly man and the above mentioned ballad written by a man in which the low and the high struggled for mastery, Oscar Wilde, of unquestionable literary ability but who was convicted of a moral crime and served two years in a penitentiary.

When one remembers that in 1921 there were committed in the city of Detroit alone 100 murders one's sence of justice cries out for the supreme penalty but when one reads clear thru, The Ballad of Reading Gaol a horror of legalized murder grips the soul, and one is inclined to be glad that the record of our State has been against it since 1847.

TEACH INDEPENDENCE

I WONDER if I dare to call myself a thotful mother, so as to take part in the discussion of your question. Anyway, I have three children, and it seems to me that I think several times a day. Will that do?

It is my firm conviction that children ought always to be told the reason for rules, or helped to find the reason.

I figure it out like this: If I have not a good sound reason for any rule or request, then that rule or request is unreasonable. If I try to enforce it I am an unreasonable mother. On the other hand, if I have a good

sound reason for any rule or request, I can develop the child's reasoning power by helping him to find the reason. And well developed reason-

ing power results in a reasonable child. All too soon our children must

leave us to begin manifesting what,

we have taught them. If they are not taught to reason while in our care, they must learn by bitter experience later on. If children were horses and parents could always hold the lines we might say "Whoa, back, gee, haw, giddap." They would have to obey "Because I say so." But children are not horses, and parents cannot always hold the lines.

I am acquainted with three families who grew up under that sort of discipline. After a while the guiding hand dropped the lines. * * *

The ones who were gifted with horse sense knew they could only pull, while someone else drove. They are self-supporting. The ones who lacked horse sense

believed that after a lifetime of pulling, they could now drive, and tell someone else just how to pull. They will end their days in the poor house. —Mrs. J. C.

OUR LEAD

THE Detroit Saturday Night followed our lead this week and came out with an article on how and how not to take cold. I print the following remedy which we overlooked:

"I can gib you sobething for your cold," says a kind friend between sneezes. "Take a raw odiod and cud it into slices. Thed put some viddegar on it and ead id before you go to bed. Id always cured be."

CORRESPONDENCE COLUMN

. There are two pattern orders on my desk which I cannot fill for the reason that no post- 'lce address is given. One asks for No. 2696, 30 waist measure, the other for the same No., size 26. I will gladly fill

_AIDS TO GOOD DRESSING_____

For Simplicity, Service and Style .

Address orders to Mrs. Jenney, Pattern Department, M. B. F.

SPRING FASHIONS FOR THE LITTLE FOLKS Catalogs 12 cents Patterns 12 cents

Catalogs 12 cents Patterns FASHION BOOK NOTICE

Send 12 cents in silver or stamps for our UP-TO-DATE SPRING and SUMMER 1923 BOOK OF FASHIONS, showing color plates, and containing 500 designs of Ladies', Misses' and Children's Patterns, a CONCISE and COMPREHENSIVE ARTICLE ON DRESSMAKING. ALSO SOME POINTS FOR THE NEEDLE (Illustrating 30 of the various, simple stitches) all valuable hints to the home dressmaker.



the orders as soon as I receive the necessary information. A number came thru this week with he change or stamps enclosed and no sizes mentioned. Please look your orders over well before mailing, it will save you disappointment d delay.

I have jist bought a second-hand Majestic range. It is in good shape with the exception of a little rust. Now can any of our readers tell me the best way of cleaning that rust. Is there any kind of enamel paint that will not burn off? Thanking you for an early reply.—Mrs. M. E. R.

-To clean steel oven doors, rub briskly when the door is warm with a cloth dippel in vinegar. To clean the iron parts saturate a

To clean the iron parts saturate a woolen cloth with linseed oil and rub until the rust disappears, next rub with a dry clean cloth. Now use a Rust-proof paint and the range should be in very good condition. I am mailing you a card giving the name of a firm that makes a rustproof paint. If any of our readers have suggestions to make along this line I will publish them.

J. D. O.—Tarnished copper may be cleaned with vinegar and salt. Care must be take to remove all traces of it or the preparation will corrode the copper. Wash off carefully and rub dry with a clean soft cloth.

Claude R.—Write to some music store in a large city, they will furnish you with what you want if it is obtainable.

I saw in the M. B. F. a request for the Sec. of the Treasury under Lincoln. I have a picture of Lincoln and his cabinet, as follows: President, Abraham Lincoln; Sec. of War, Frederick Stanton; Sec. of Int. Caleb B. Smith; Sec. of Navy, Gideon Welles; Sec. of State, William H. Seward; Sec. of Treas., Salmon B. Chase; Postmaster _General, Montgomery Blair; Attorney General, Edward Bates.

Have all the songs as: ' for been received? I had some of them but was too busy in the fall to send them in.

in. This is my first letter to the paper. We have always taken it and would be lost without it if it did not come, we helped to get it started.—Fraternally yours, R. A. Kinney.

— The Dead Man's Hand was one poem asked for and not received. The Brier Rose another.

We would like very much to get the full name of a Mrs. McAllister whose husband and brother kept a staple and fancy grocery store at Otsego over ten years ago. I will very much appreciate any information.—Mrs. Perry Haven, 530 Pine St., Mt. Pleasant, Mich.

Some time ago I saw a recipe for curing rancid lard, in your department. I intended to cut it out, but was taken sick and did not. The paper is now gone and I ask you to print it again. Will appreciate it very much.—A Reader.

-Re-heat the lard being careful not to fill the kettle more than three fourths full. When hot put in a large handful of salt, stir well for a few minutes, remove from the fire and strain. The salt will settle to the bottom of the kettle, the lard will not taste at all salt and will be much improved.—From issue of March 4, 1922.

I am asking you to thank the good woman who gave the cure for eczema. I saw it in your helpful corner eight months ago and have been helped greatly by it. I wish to thank her and you also. Your corner is my choice of this paper. May the good work go on.—Mrs. Bert Tidey.

J. M. B.—Shingles is not a contagious disease. It is sometimes produced by sudden exposure to cold after violent exercise and sometimes follows acute affections of the respiratory organs.

The treatment consists in gent.e laxatives, and in rectifying any derangement of the system. It sometimes has an obscurely nervous character, occurs in the course of a nerve and is proceeded by stinging rouralgic pains. It must be allowed

to run it's course. Languor, loss of appetite, shiverings nausea and headache often follow after which the erruption appears in irregular patches. The erruption recedes by the fifth or sixth day. Gentle laxatixes, rest and quiet for a few days accompani-ed by a light diet is about all one can do to overcome the disease.

黨語品

My husband is cripple and we have three children two boys, one four and one five and also one little girl of two. We are very much in need of clothes for the children and in need of clothes for the children and in need of quilts, if some readers had pieces of percale and gingham I could make them into quilts. We are trying to raise our children the best we know how but I do need help and come to the readers of Our Page asking for it,—Mrs. Mansel Cone, Rosecommon, Mich. —I believe this lady is entirely worthy and that she needs and des-

erves help so do what you can. I am mailing her a bundle to-day and hope it will be of use to her and her little family.—Mrs. Jenney.

One of our subscribers will make sweaters, bonnets, crocheted hats, booties, door-panels and table runners

If you wish her address write to me for it.—Mrs. Jenney.

Who can send the words to the song, "The Maine?" I think it was called "Remember the Maine."

SOMETHING FRESH

From a youthful writer of very ten-der years, comes an article published in the London Morning Post, called, "The Advantages and Disadvantages of Novel-Reading." Read it and smile once more.

Some person's opinion differ great-> ly with regard to the reading of novels there are a good many different kinds of novels, such as 1d., 2d., 4d., 6d. I do not think there is much harm in reading novels if you read them at the right time, and do not spend to much money on them, which is sometimes the case. The Waverly novels, for instance, are not at all bad books if read at the proper time. The great fault of some peo-ple are that they are always reading novels, and of course the more they read the more they want. I think it is not right to read a novel on Sun-days; it is just as much harm as playing, because it generally gives great pleasure to the mind. The great harm of reading novels are to be careful not to follow them. Novels do not increase your learning much, but does sometimes decrease it. I think it is about the worst thing any schoolboy could have in the way of books and 4d. novel it generally does a lot of harm. Tom Jones was a very good novel and was written by a very good novelist. George was also a great novelist who died but a short time ago.

FIVE farm women in Bates

FIVE farm women in Bates county have provided full shelves of canned fruit and vegetables for their families at a minimum outlay of time and labor according to extension specialists at the Missouri College of Agriculture. At the beginning of the canning season last summer these women season last summer these women, following the suggestion of their home economics agent, bought a s'am pressure canner, a supply of tin cans and a can sealer. Through the co-operative ownership and operation of this equipment all kinds of food have been preserved in the safest and easiest way and the cost to any one family has been campar-atively small.

POINTS OF INTEREST

We still have the unsightly billboard with us, however.

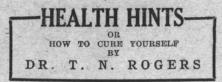
Buyers of poultry, say the Nook-sack, (Wash.) Sentinel, have discovered that healthy birds can not be found on farms where the poultry and cattle are allowed to run to-gether except when the herd has been tested and found free from tubercular taint.

Up in the vicinity of Traverse City, Michigan large numbers of robins are reported, which the native de-clare, forgot to go south last fall. But the question is, how do the natives tell whether a robin's coming or going?

THE MICHIGAN BUSINESS FARMER

Apples having neither seed nor core are being developed in Abbots-ford, Canada. The fruit is a veriety of Farmeuse and has only a slight marking of the flesh where the core is ordinarily found.

The windowless room is a menace to health and is unfit for occupation by either man or beast.



CANCER

NANCER is not a local disease or CANCER is not a local disease or a blood disease but a constitu-tional one. Coming on very slowly and insiduously. Diet has very much to do with it, and diet has more to do with it's cure than anything else. Cancer and rheuma-tism are very often associates. Most cancer gives history or rheumatism. The one big factor is diet. The blood in rheumatism and cancer show alin rheumatism and cancer show al-most the same conditions. Preventative Measures

Eat very little meat. However, I consider starchy foods more harm-ful than meat as they produce an acid condition or an acidosis. The acid condition or an acidosis. The ordinary breakfast foods are indi-gestible and so ferment in the stom-ach especially when boiled. Baking or roasting is much better for any starchy food. White bread as bak-er's bread should not be eaten with meat. The meat takes three hours to get out of the stomach and by to get out of the stomach and by this time the starch in the bread is fermented and throws out or forms acids which are poison. We call this Toxemic poisoning. This irritates the stomach causing catarrh, then ulcers, or cancer. The poison may be carried to other parts of the body and produces a condition of the tissues which lowers the vitality and fav-ors the formation of cancer. Increase of Cancer

Cancer has increased 30% in 20 years. Cold storage foods, meat and vegetables, create too much acid in the body and so breed germs which cause cancer. The public taste for such food is increasing every where, also the habit of eating meat in large quantities.

CONSTIPATION

RTAIN foods improperly cooked cause constipation and the colon 1 becomes clogged and a seed bed of disease. The safeguard is a re-formed diet of nutritious and natural foods, fruit, cereals and vegetables well cooked.

Test the saliva with blue litmus paper yourself and if the paper turns red you are on the road to trouble. Better stop and make a fresh start, cut down the starch, sugar and meat and cut out coffee, drink plenty of water, eat only two meals a day for a while and fast one day each week.

CURE FOR EAR-ACHE Having received so much help from your paper I want to do my share. I enjoy every page of the M. B. F. and am anxious for it to come. I will send my remedy for come.

come. 1 will send my remedy for ear-ache. My little girl of nine was bothered with gatherings in her ears and suf-fered very much. After using this remedy she was entirely cured. Take a cotton cloth, double it and wet it put it in on onion cut fine and one-heif as much tobacco. I used Peerhalf as much tobacco. I used Peer-less. Tie cloth in a sack shape and lay in hot ashes until the onions are cooked, squeeze out juice and put in ear It acts at once. I press out all the juice I can and keep it for another time. Just warm it a little. -A Reader.

LAUGH IT OFF

Are you worsted in a fight? Are you cheated of your right? Laugh it off.

Don't make tragidies of trifles; Don't shoot butterflies with rifles; Laugh it off. Does your work get into kinks? Are you near all sorts of brinks?

Laugh it off. If it's sanity you're after, Laugh it off. —Modern Methods

There's no recipe like laughter

There is no "Just As Good"

Don't accept substitutes-don't buy baking powder that is supposed to be just as good as Calumet-don't think that a big can at a low price means a real saving. **Use**



BEST BY TEST

Avoid disappointments. Millions of housewives are using Calumet because of its dependability. They know that the bakings will always turn out just right. Pies, cakes, biscuits, muffins, will always be perfectly raised, light and wholesome if you use Calumet, the real economical leavener.

Calumet sales are 2¼ times as much as that of any other brand-always call for it.

THE WORLD'S GREATEST BAKING POWDER



GALUMET The Economy BAKING POWDER

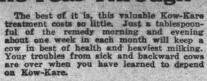
Saved Big Veterinary Bills - Cows Gave More Milk the Year Through

Mr. C. E. Dodge of Dewittville, N. Y., is one of the many cow owners who have dis-covered that it pays best to PREVENT cow diseases. He knows that it is a fine thing to have on hand such a valuable medicine as Kow-Kare in the event of actual diseases, such as Abortion, Retained Afterbirth, Bar-renness, Milk Fever, Scours, Bunches, etc. But he also knows that a moderate use of Kow-Kare in the feed not only PREVENTS these diseases, but greatly increases the winter milk flow. He writes us his expe-rience, as follows:

The state

"Since I have been on the County Farm, I have been using Kow-Kare in the dairy for the last ten years. I have 52 cows. My y perience is that a few dollars' worth of Kow-Kare saves us a great many dollars' worth of veterinary bills, and also every cow in the dairy that I feed it to produces more all the year thru because of the Kow-Kare. I have no sick cows or trouble, when I begin feeding Kow-Kare, from the first of January until I turn them out in the Spring."

Winter feeds are so much harder on the digestive and milk making organs of the cow that the vitality of these functions is sure to become impaired unless nature is assisted. Kow-Kare is designed primarily to strengthen these very organs so that they may throw off disease and keep up the nor-mal milk production.



Feed stores, general stores and drug-gists sell Kow-Kare; large size, \$1.25, medium, 65c. If dealer is not sup-plied we will mail, postpaid, on receipt of price. Write new for valuable book, "The Home Cow Dector."



BREEDERS DIRECTORY Advertisements inserted under this neading for reputably preseders of Live Stock at special strates to encourage the growing of pure-preds on the farms of our readers. Our advertising rate is Thirty Cents (306) per agate line per insertion. Fourteen agate lines to the column inchi or \$4.20 per inch, less 2% for cash if sent with order or paid on or before the 10th of month following date of insertion. SEND IN YOUR AD AND WE WILL PUT IT IN TYPE FREE, so you can see how mary lines it will fill. Address all letters, BREEDERS DIFFCTORY MICHING MISSING BUSINESS FARMER, MT. CLEMENS; MICH.

E

SALE DATE To avoid conflicting dates we will without oost, list the date of any live stock sale in Michigan. If you are considering a sale ad-vise us at once and we will claim the date for you. Address, Live Stock Editor, M. B. F., Mit. Clemens F., Mt. Clemens Mar. 21—Aberdeen-Angus, Russell Bros., Merrill, Mich. Mar. 22—Poland Chinas, Sosley Bros., St. Louis -Poland Louis. -Holsteins, Howell Sales Company Livingston County, Wm. Gri^m Sec'y. Howell. Mich. Oct. 18-

CATTLE



Every man who milks cows for a living knows that prepotency, ability to "breed on," is one of the best reasons for Holsteins

HOLSTEIN PREPOTENCY MEANS: Influence of 2,000 years of Breeding for Great Size and Ruggedness combined with highest yield - Strong Healthy Calves - Assured improvement in grading up common cows with Holstein bulls.

Let Us Tell You the Story

of the Holstein Cow. EXTENSION SERVICE. Holstein-Frieslan Association of America 230 East Ohio Street, Chicago, Ill.



ANGUS **Bellevue Stock Farm**

Public Sale of Aberdeen - Angus Cattle To be Held on the Farm at Merrill, Mich.,

Wed., Mar. 21st, 1923, at 1:00 O'clock P. M. 22 Head 15 Females -7 Buils-8 Cows with

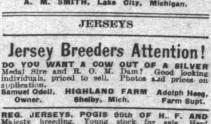
calves by side, 7 Heifers An opportunity to buy real quality cattle at your own price. These cattle are right in pedigree and individuality. Teeming in the blood of such fashionable families as Blackbird. Aricas and Prides. In this offering will be found real show prospects. This sale should appeal to beginners. Nine months time will be given on bankable notes. Write for catalog. Auctioneers: Col. J. P. Hutton and Col. D. J. McInnes.

RUSSELL BROS., Prop. MERRILL, (Saginaw Co.), MICH.

Will meet trains on sale day. Good auto roads. WE HAVE SOME FINE YOUNG ANGUS BULLS from International Grand Champion Stock at reasonable prices. E. H. KERR & CO., Addison, Mich.

GUERNSEYS FOR SALE-REGISTERED GUERNSEY HEIF-ers at reasonable prices, also choice bull calves of

ers at reasonable prices, and May Rose breeding. H. W. WIGMAN. Lansing, Mich., Box 52. GUERNSEYS—Registered Bull Calves, Cheap, also grades. Best of breeding for production and size. George Damkon, North Manchester, Indiana. MISSAUKEE GUERNSEYS. A NEW CROP OF calves coming acon. No females for sale. Order that new buil calf A. R. Sire and Dam. A. M. SMITH, Lake City, Michigan.



REG. JERSEYS. POGIS South OF H. F. AND Majesty breeding. Young stock for sale. Herd fully accredited by State and Federal Government. Write or visit for prices and description. GUY C. WILBUR, SELDING. Mich.

HEREFORDS



FORDS FOR SALE. SEVEN CHOICE and heifer calves and seven yearling aired by Wyoming 9th. International Prize r. Farmars prices. Herd established in by Gov. H. H. Crapo. Write for furforma-CRAPO FARMS, Swartz Creek, Michigan. MEREFORDS FOR SALE CHEAP BULL, 2 years old CALVIN BARKER, CIIO, Ohio.

RIVERVIEW HEREFORDS FOR SALE

AIRY and LIVESTOC

10 MICHIGAN HOLSTEIN BREED-ERS JOIN NATIONAL ASS'N. TEN Michigan Dairymen were re-

cently admitted to membership in The Holstein-Friesian Associin The Horstein-Friesian Associ-ation of America, according to an an-nouncement just issued by Secretary F. L. Houghton. They are Lyman E. Beach of Groswell; F. B. Breeks of Corunna; C. E. Chappell of Char-lotte; Robert J. Crouse of Howell; A. B. George of Garland; Francis D. Guncer of Riga; Edward B. Henne of Manchester; Mark A. Knight of Rockwood; O. B. Merriman of Deckerville and Marion R. Wilkinson of Dowagiac. The Michigan membership in this

association now numbers 1,443. According to the 1920 government census, there were 46,533 purebred dairy cattle in this state, of which 32,702 were Holsteins. With a total membership of over 22,000 living animals registered in its Herd Books, this livestock breeders' association is the largest in the world.

NEW MICHIGAN HOLSTEIN IN JUNIOR CLASS

Burke Pontiac Clare is new State Holstein champion in the yearly test period division junior three year class, according to official announce-ment by The Holstein-Friesian association of America. She is owned by W. C. Cornwell of Saginaw. In one year she produced 23,2118 pounds of milk and 747 pounds of fat.

MIXTURE OF BEANS AND OATS UNPALATABLE

UNPALATABLE Would like to feed cull beans and oats to milk cows. Would like to know how many pounds of oats to a hundred pounds of beans, to make a good ration for milk cows, to be ground together.—C. Q., Marion, Mich.

-We are feeding the following ration to some of the cows in the col-lege herd at the present time: 500 pounds of oats and beans ground together, 300 pounds of hominy, 100 pounds of ground corn and 100 pounds of gluten feed.

This ration as you will notice, contains 25 per cent ground beans. Beans and oats are ground together in equal amounts. This ration seems to be a fairly satisfactory one for diary cows. If only beans and oats are going to be fed, I would recommend that equal parts of beans and oats be ground together for feed-The percentage of beans in a ing. ration of this kind, would, of course, be affected by the kind of roughage fed to the cows. I do not like your fed to the cows. I do not like your grain ration, consisting of just beans and oats, as there is danger of feeding too many beans to the cow. think you will find that a mixture of just beans and oats in this pro-portion rather unpalatable as the cows have a dislike for the ground beans.—J. E. Burnett, Asso. Prof. of Dairy Husbandry, M. A. C.

MAKING ALFALFA MEAL Can you please tell me how alfalfa meal is made?—A. Z., Grand Rapids, Mich.

-The grinding of alfalfa into meal was practiced quite extensively in Kansas for several years but has been more or less discontinued and has moved further west into the irrigat-ed sections of Colorado and Wyoming. It is quite an expensive pract-ice costing from \$3.00 to \$6.00 a ton to make the meal, and after the meal is secured the feeding value is not materially increased. Stock will consume practically all the alfalfa hay without grinding; consequently, there is little advantage in grinding alfalfa.—C. R. Megee, Associate in Farm Crops, M. A. C.

CALF WEANED TOO YOUNG

Could you tell me what to do for a calf six months old. The calf was a calf six months old. The calf was on the cow until it was three months old and did remarkably well. It came in July and in October last we weaned it. It has not done well since. Can't see anything particu-larly wrong only it has a small ap-petite. We have tried it on all kinds of feed but it seems the same. Doesn't drink over a half pail of milk or water. J. H., Akron, Mich. -I judge that you weaned the calf too young and did not have it accustomed to eating grain before it was weaned. Had this calf been thoroughly accustomed to grain bethoroughly accustomed to grain be-fore weaning, this trouble would not have been experienced. I would ad-vise giving it plenty of good clover hay and as grain, would offer it a mixture of equal parts whole corn, oats and bran and endeavor to have it eat about one pound of grain daily for each hundred pounds that it weighs.—Prof. Geo. A. Brown it weighs.—Prof. Geo. A. Brown, Department of Animal Husbandry, M. A. C.

VALUE OF CULL BEANS AS FOOD FOR CATTLE

Can you tell me how much food value cull beans ground fine contain for dairy cattle? How many pounds of grain to every pound of milk? Which is the best for ensilage, corn fodder or sun flowers?—M. D., Mar-ion Michigan ion, Michigan.

The analysis of cull beans, as is shown by Henry's Feeds and Feed-ing, is as follows:

Total dry matter in 100 lbs. 87.2; Digestible nutrients in 100 pounds, Crude protein 18.3; Carbo Hydrates

This analysis shows that two pounds of cull beans have about the same protein composition as one pound of cottonseed meal.

Your second question is not quite clear. You ask how many pounds of grain to every pound of milk. I am assuming that you mean how much grain to feed for each pound of milk produced per day. This varies somewhat with the test of milk. With a low testing cow a pound of grain to each three and a half or four pounds of milk produced per-day is sufficient. For Jerseys or Guernseys, that have high testing

Guernseys, that have high testing milk, we feed a pound of grain to each three or three and a half pounds of milk produced per day. The best ensilage crop we know of is corn. Corn fodder, as mention-ed in your inquiry, does not make a very satisfactory silage. It is only in times when corn is your high is in times when corn is very high in price that it pays to shuck the corn off the stalk and put the stalks into the silo. I would never advise the use of sunflowers for silage in a section or locality where it is possible to obtain a good yield of corn, but in the northern part of the state, where corn is a gamble one year with another, sunflowers will make an excellent substitute for corn in silage. O. E. Reed, Professor of Dairy Hus-bandry, M. A. C.

PUTTING PIGS ON SELF-FEEDER I have forty fall pigs that weigh about eighty pounds each. I want to put them on a self-feeder. They get twenty gallons of skim milk a day. What would be the best feed to put in the self-feeder to make the best gain? Where one has that much skim milk, is tankage necessary?— P. M., Farwell, Michigan.

Twenty gallons of skim milk will not be sufficient to provide enough protein or growth producing food for forty pigs weighing eighty pounds each. I would, therefore, advise putting tankage as well as corn in the self-feeder for them, using a separate compartment for them, us-ing a separate compartment for each. If barley could be obtained any cheaper that corn, I would advise the use of barley.—Prof. Geo. A. Brown, Dept., of Animal Husbandry, M A C M. A. C



OPERATION PROBABLY NECES

SARY I am writing to your veterinary column for a little advise. I have a mare seven years old and is in the best of health. In October, 1922, a swelling came on the left side of her bag, it kept swelling until it broke and about one quart of slate colored and about one quart of slate colored matter came out of it. I took her to a veterinary and he cut it, cleaned it all out and gave me some dissinfect-ant to syringe it out, with and said she would be all right, that it was an abcess, but it did not get all right. It swelled and filled up again and she got so ugly I could not do any-thing with her. In one month from the first time I had to call the doctor he opened it up and cleared it again he opened it up and cleared it again

March 17; 1923



and said as long as it stayed open and drained she would g t along. I was not satisfied so I saw another veterinarian and he told me about the same. If I would bring her to him he would keep her and chloriform her and take care of her every But it was too much expense, day. I could not stand it and 'o have him come to my place would cost me twenty dollars a trip, so I thought you could give me advise.—G. H., Nessen, Mich.

-This is a case that in all probability will require an operation before a cure can be 'rought about. There may be a foreign body at the bottom of the fistula tract or it may be a diseased lymph gland that will have to be removed.—John P. Hutton, Assoc. Prof. of Surg. & Med., M. A. C.

REMOVING WARTS I have a yearling steer which has large white warts about the size of a quarter in clusters on the sides of his neck and about his back. Have been on him for some time. He seems healthy and is in good shape. Would consider it a great favor in giving some remedy for it. -F. H. B., Cheboygan.

-We do not know the cause of these warts. Where there is only a very few warts present on the surface of the skin about the best treatment the skin about the best treatment is to remove them by cutting them off after the surface of the skin has been well disinfected. The appli-cation of a little glacial acetic acid to the surface of the wart will some-times cause it to disappear. Where times cause it to disappear. Where you have a large number of them on the body and they are in clusters little can be done. Better send the steer to the butcher as soon as he can be gotten in good condition to kill.—John P. Hutton, Assoc. Prof. of Surg. and Med., M. A. C.

COW POX

I have a cow which has some kind of a breaking out on the bag which are small pimples which scab over. She is due to freshen in about eight weeks. Would like to know the cause and a remedy.—V. B., Dryden, Mich.

-From the history given of the case I am of the opinion that the trouble is cow pox. Try washing the udder after each milking with a 1 per cent solution of sodium hyposulphite. No internal treatment is required.— John P. Hutton, Assoc. Prof. of Surg. & Med., M. A. C.

FEED SOW SCORCHED CORN What should I do with my Poland-China sow, as I have her in a large pen and she doesn't come in heat nor hasn't been in heat for the last six months. Have raised two litters with her already. She is two years old, and I feed her tankage and corn. Have given her oats at times and also charcoal-Reader.

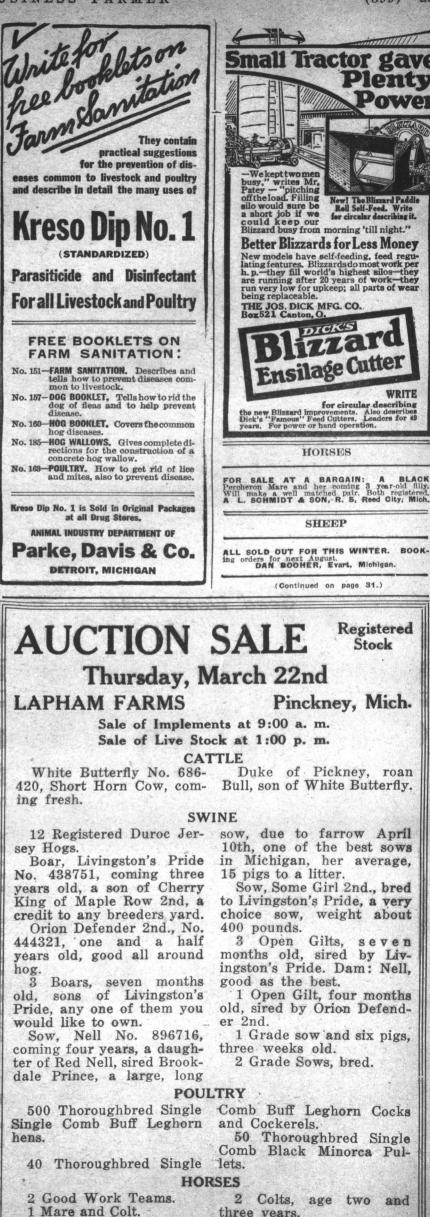
-A method that often proves effective in getting sows to come in season is to feed them entirely on scorched corn for a few days.

corn for a few days. If this falls, drugs may be resorted to. We have used a preparation known as Vetol, put out by Lehn & Fink, 124 Williams Street, New York City, with very satisfactory results. If this sow is fat, it would be a good idea to limit her feed allowance to reduce the condition of flesh.— Geo. A. Brown, Prof. of Animal Hus-bandry, M. A. C.

NO LAW ON DISTANCE HOGS MUST BE FROM ROAD

I would like to know how far from the public highway do I have to keep my hogs that are being fattened in a building? And how far from the highway must the other ones, brood sows and such, be if confined? They They are in a small pard of less than on half acre.-J. B. B., St. Charles, Mich -There is no State law fixing the distance that hogs must be removed from a public highway. It is simply a question of whether of not they are allowed to become a nuisance. The matter is under the control and within the jurisdiction of township within the jurisdiction of township officials.---M. J. Smith, State Department of Agriculture.

PORK EXPORTS DECREASE IN 1922 E.xports of pork and pork products from the United States were less in 1922 than in 1921, according to re-ports of the United States Depart-ment of Agriculture. This decrease was due to smaller shipments of ba-con and lard.



three years.

S. D. LAPHAM,

LAPHAM FARMS are located

1 mile south of Pinckney, 18 miles north west of Ann Arbor. Bus passes farms four times

daily. We will meet all trains at Pinckney and Dexter on day of

Proprietor. Col. John W. Fawcett.

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Michigan Farm Bureau Brands include the Best varieties of alfalfa, clo ver, 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

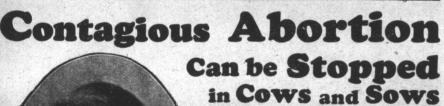
6 to 25 bushel lots, \$1.00 per bushel, f. o. b. Lansing, Michigan.

Wisconsin Pedigree and Black Barbless Barley

6 to 25 bushel lots, \$1.40 per bushel, f. o. b. Lansing, Michigan 2½ 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

Seed Department MICHIGAN STATE FARM BUREAU



That statement applies to Your herd. It's no use to worry about past losses which this dread disease may have caused. The important thing to do is to save yourself from future losses by stamping out every trace of Contagious Abortion Now.

The Bowman Abortion Remedy has behind it a record of positive results in the thousands of cases where it has been used. These should recommend it to anyone facing the problem of how to eradicate Contagious Abortion. The experience of satisfied users is your best guide. The Bowman Abortion Remedy will positively rid your herd of Contagious Abortion. Any farmer can administer it with ease. Cattle and hogs like it and take it readily when it is given to them.

Write Today

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is FREE. Gives full information abo actions Abortion and how to eradicate ell as the experience of many farmers w used Bowman's Remedy. A postal se will bring you a copy by return mall.

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Remedy Company 730 Bridge Street

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We Pay the Freight.

KITSELMAN FENCE



Erick Bowman Discoverer of the Bowman Abortion Remedy

"It did all you claim for it." writes Mr. Weiner Columbus, Wisconsin, December 3rd, 1922.

Erick Bowman Remedy Co., Owatonna, Minn.

Gentlemen: In reply to using your abortion remedy, I can say that it did all you claim for it. We had lost six calves but after using your remedy, we have not lost any more. We have seventeen live calves now Cows cleaned nice with cleanings nice and Yours respectfully, HENRY WEINER.

> MAKE YOUR OWN ROPE sizes including hay fork roper nderful saving. Send for fre klet, "Rope Making On Th m." New Fra Rope Machin

ICHIGAN CROPS

CULTIVATION-FROM 53 YEARS' EXPERIENCE

ULTIVATION of land begins with 4 plowing and the first question will be when and how deep. When to plow will vary according to the crop and land conditions. Plowing long enough before the crop is planted to get the weeds killed on the surface is a big gain whenever practical.

As oats, barley and spring wheat need sowing very early in the spring, the only way to plow long before planting in this state is to fall plow and while this is fine under some conditions it is bad under others. Soils that are heavy and wet or hill-sides that are bad should not be fall plowed so they will have to be sowed as soon as the ground can be fitter for them and in case of heavy wet soils don't plow them too wet as you

will injure the soil if you do. As to depth, oats will do well on shallow plowing if a sod has been turned down the year before sowing the oats. When plowing sod for corn I get best results by going by the depth that the grass roots go as soil that is much below where the grass roots grow is generally poor or in a poor condition to feed the corn roots.

Plowing as early as the ground is fit to work and harrowing smooth to get the surface weeds to sprout so they can be killed give the best results with corn as this warms the soil and kills the weeds at one time. Potato ground needs to be plowed

a little deeper than for corn and can be worked longer before planting and harrowed deeper if it needs to be, but it can be made too loose. In a dry time the ground should be just loose enough for the roots to penetrate easily and yet to press some against the roots and then air must get into the ground enough for chemical ac-tion on the soil, but not enough to

dry it up too much. Watch and see what condition the soil is in when the crops grow the best and then aim at keeping it in that condition. Cultivate shallow if the ground is loose and dry and deep-er if the soil is heavy and wet or caked. Cultivate with fine teeth and nearly level in a dry time; use larger teeth hilling up when the soil or weather is wet or weather is wet.

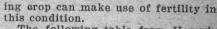
Potatoes should be hilled enough to prevent them from sunburning or freezing too easy and this means more hilling if they set shallow than when they set deep. Cultivate beans level and smooth.—Francis G. Smith,

VALUE OF TIMOTHY OR CLOVER FOR FERTILIZER

I would be pleased to received your estimation as to what hay (each all clover & all timothy) in the barn ought to be worth to be of the same value to me, to leave in the barn and leave the new crop on the ground as fertilizer.—F. H., Scotts, Mich.

-It is rather difficult to arrive at a satisfactory estimate of the value of timothy and clover hay for fertilizer purposes. The feeding value is usually much greater than the fertiliz-ing values especially when we consider the fact that when the hay is fed and the manure well taken care of from fifty to sixty-five percent of the nitrogen, sixty to eighty percent of the phosphorus and sixty to eighty percent of the potash of the original feed may be returned to the land in the manure. Of the organic matter from twenty to thirty-five percent is . returned. Consequently, the great-er profit is usually secured by feed-ing the hay and carefully returning the manure to the land.

Also, the value of hay as a fertiliz-er depends greatly upon the need of that particular soil for organic matter and whether or not the succeed-



The following table from Henry's "Feeds & Feeding" shows the fertil-izing constituents in 1,000 pounds of hay and the fertilizing and fanurial value estimating nitrogen at 18c per pound, phosphoric acid at 41/2 c and potash at 5c per pound and assuming that on the average a farm animal will return 80 per cent of the fertilizing value of the feed in the ma-nure. The manure will have to be very carefully handled to prevent additional losses:

Fertilizing Constituents in 1,000 bs. Timothy Hay, Nitrogen 9.9, Phosphoric acid 3.1, Potash 13.5,

Phosphoric acid 3.1, Potash 13.5, Fertility Value per ton \$5.20, Manur-ial Value per ton \$4.16. Fertilizing Constituents in 1,000 pounds Red Clover Hay, Nitrogen 20.5, Phosphoric acid 3.9, Potash 16.3, Fertility Value per ton \$9.86 Manurial Value per ton \$7.49. Timothy hay then is worth annrox

Timothy hay then is worth approxinately \$5.20 per ton and red clover hay \$9.36 per ton for fertilizing pur-poses according to the above esti-mate.—Prof. C. R. Megee, Farm Crops Dept., M. A. C.

CROPS DRAW ALL ELEMENTS OF FERTILITY IN SOIL

'Will you please inform me what substance corn takes from the ground and what it gives back to the Also wheat, oats and potatoes. -T. L., Onaway, Mich.

-The crops, corn, wheat, oats and potatoes draw all elements of fer-tility in the soil. The following gives the amount of nitrogen phos-phonus and potension in provide inphorus and potassium in pounds in the above crops:

Corn 100 bu. including stover, Nitrogen 148 pounds, Phosphorus 23 pounds, Potassium 71 pounds.

Wheat 50 bu. including straw, Nitrogen 96 pounds, Phosphorus 16 pounds, Potassium 58 pounds. Oats, 100 bu. including straw, Nit-

Oats, 100 bu. including straw, Nit-rogen 97 pounds, Phosphorus - 16 pounds, Potassium 68 pounds. Potatoes, 300 bu., Nitrogen 63 pounds, Phosphorus 13 pounds, Po-tassium 90 pounds. Inasmuch as these crops are non-legumes they return to the soil, when the entire crop is returned only the the entire crop is returned, only the amount of nitrogen, phosphorus and potassium removed by the crop. In addition to the elements of fertility organic matter is returned which is a great benefit to most of Michigan soils.—G. M. Grantham, Soils Dep't., M. A. C.

CHEROKEE CLOVER

I would like some information re-garding Cherokee clover. Is it adapted to Michigan conditions? What kind of land does it require and what is its feeding value?—D. G., Alanson, Mich.

G., Alanson, Mich. —Cherokee clover is an early matur-ing variety of beggarweed. This is an annual legume with large bean-like leaves and with stems and roots somewhat like sweet clover. There are approximately twenty-six var-ieties of beggarweed, only two of which are of value commercially; namely the Florida beggarweed and the Cherokee. The Cherokee is the earlier variety and probably the best earlier variety and probably the best adapted to northern conditions. Beggarweed has become quite pop-

ular in the south where it is used for hay, pasture and green manuring purposes. Some authorities claim that it does quite well on acid soils. It has not been tried very extensive-ly in Michigan and should you care to try it would suggest that you so in a small way. Soybeans, on the other hand, have been tried quite ex-Soybeans, on the tensively and for the southern half of the lower Peninsula have been found quite satisfactory for hay and green manuring purposes.—Prof. C. R. Megee, Farm Crops Dept., M. A. C.



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THE MICHIGAN BUSINESS FARMER

DETROIT CREAMERY FARM COMPLETE DISPERSION SALE ENTIRE HAMPSHIRE HERD on Monday, March 19th, 1923 CONSISTING OF

27 Tried Sows Bred 13 Gilts Bred **5** Boars

· INTRUDER NO. 103987

INTRUDER is considered by expert judges to be the greatest son of the National Swine Show Grand Champion, Messenger All Over, who in turn was the greatest son of that great pillar of the breed, Messenger Boy.

As a show boar he was defeated only by the great General Perishing, Grand Champion of the Nation-al Swine Show in 1921. Intruder was Junior Champion at the Ohio State Fair, Grand Champion at Erie, Pa., Dayton, Ohio, Sidney, Ohio, and Troy, Ohio. At Sidney, Ohio, he was placed Royal Grand Champion over all breeds, an honor never before won by an under year Hampshire. He stands a leader of his kind and unapproached. He is a gre at boar with a great pedigree.

ANNOUNCEMENT

R. D. SCHECK, Asst. Supt.

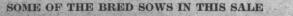
It is with the greatest regrets that we announce the dispersion of our entire Hampshire herd.

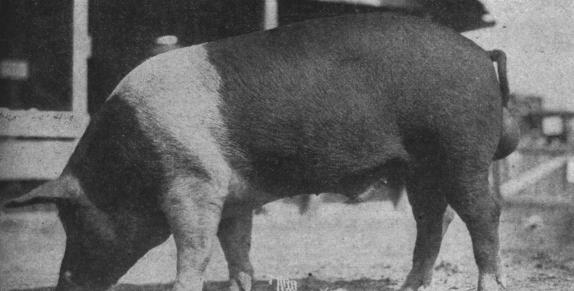
In our short Hampshire career we have collected some of the finest breed-In our short Hampshire career we have collected some of the finest breed-ing material that could be found in Ohio, Illinois and Iowa. From the very first it has been our aim to develop one of the best herds of Hampshires. We have always endeavored to keep in mind, the true Hampshire type and all our purchases were made with this in view. One of the important additions to our herd, is the recent purchase of the great boar "Intruder" from C. G. Bitzer and Son at Washington C. H., Ohio, a boar that has one of the greatest show records of the breed. A large percentage of sows and gilts in this sale are bred to him are, bred to him. We realize that this is the wrong time of the year to dispose of our high

class boars, still there is no other course open to us, our loss will be the gain of the Hampshire breeders who attend this sale.

In addition to breeding Hampshires, we have some of the world's finest breeding stock in Poland China's, Duroc Jersey's and Chester White's. The extra labor and expense involved in maintaining four separate breeds is proving to be too much to carry on the business profitably and rather than let any one breed suffer from lack of attention, we are dispersing our most recent addition, namely the Hampshire Breed. We do not wish anyone to infer from this that we think the Hampshire are inferior to any of the other breeds. Even to this day it hurts to sell out all our Hampshire sows and boars that we have become very much attached to. Since we have a larger and more established herd in these other breeds, our loss would be far great-

er should we dispose of any of the other breeds at one sale. We want every one who possibly can to be present, if it is impossible to honor us with your presence, we would appreciate your mail bid. Any co-operation you can give us will be greatly appreciated.





LOCATION-This dispersion sale will be held in Fred Smith's Sale Barn at Utica, Mich.

GUARANTEE-Every animal is guaranteed a breeder. Every bred sow Guaranteed safe to date of service given should any prove not to be with pig, we will refund 30 per cent of purchase price. Complaint must be made within 30 days.

TERMS-Cash.

IMMUNE-The entire offering has received the double treatment for hog cholera and should be immune.

ENTERTAINMENT-Parties from out of town can put up at the Utica Hotel as our guests. Lunch will be served at 11:30 A. M. by the Ladies Aid.

MAIL BIDS-Although we wish all who can to attend this sale, your bids mailed to C. R. Bowers, care of Detroit Creamery Farm, Mt. Clemens, Mich., will be treated honorably.

Every animal purchased by mail will be shipped on approval and if found unsatisfactory, may be returned at our expense and purchaser will be cheerfully reimbursed for full purchase price.

AUCTIONEER-Col. F. H. Hulick, Atlanta, Ind.

FIELDMAN-C. R. Bowers of the Hampshire Advocate. For mail bids address him in our care. PEDIGREES-Certificate of registry duly transfered will be supplied purchaser, as soon after sale as transfers can be reasonably and correctly made,

(401) 25







Raise them the PAN-A-CE-A way.

Start them right-keep them growing right along without any backset.

PAN-A-CE-A gives chicks good appetite and good digestion—helps them develop rapidly—gives them vigor to resist disease.

PAN-A-CE-A prevents fermentation of the food; fermentation is where most of the bowel troubles start.

PAN-A-CE-A is a gentle tonic to all the little-chick organs-keeps the system in order.

PAN-A-CE-A contains the Salts of Iron, so essential to early chick life, and during the rapid growth of feathers.

PAN-A-CE-A prevents and cures gapes, indigestion, diarrhea and leg weakness

PAN-A-CE-A your chicks and then watch them feather! A Pan-a-ce-a chick will out-feather a non-Pan-a-ce-a chick every time.

Tell your dealer how many hens you have. There's a right-size package for every flock. There's a right-size package for every flock. 100 hens, the 12-lb. pkg. 200 hens, the 25-lb. pail 60 hens, the 5-lb. pkg. 500 hens, the 100-lb. drum For fewer hens, there is a smaller package. **GUARANTEED**

DR. HESS & CLARK Ashland, O.

Dr.Hess Instant Louse Killer Kills Lice

CHICKS VPSIFIELD POULTRY FARM CHICKS

re from stock carefully selected for those quali-es essential to good agg production, broiler pro-taction, reaster production or caponising. Write for free price list. LEONARD F. FIELD, Vpsitanti, filetigen.

Pure Bred Chicks Buy 'Em Home Antice the second secon 85c if less than 100 lots wanted. Circular. LAWRENCE POULTRY FARM. 8 Good Reference R. 7, Grand Rapids, Mich.

BABY CHICKS REMARKABLE FOR SIZE and strength. Reasonable prises. Lectorns, Anconas, Rocks, Reds, Wyan-dottes, Orpingtons, Minorcas, Spassish, Brahmas, TYRGHE POULTRY FARM, Featon, Mich.

CHICKS SINGLE COMB BUFF LEGHORNS only Strong healthy chicks from good laying stock. J. W. WEBSTER, Bath, Mich.

Cured Her Rheumatism

Knowing from torrible experies ing sousce by rhournalism, fire, who lives at 808 E. Bougies 2 Becomingten, IL, is so thas the samed harves if that each of pure ar ancious to tail all other purform pot rid of their torture by a

Mrs. Hurst has not ur own name and add nd you this value write her at a



gears in perfecting Pan-a-ce

GILBERT HESS M.D., D.V.S.

days and hatched hinds Mich. Mr. Frank Fulerson, Niles, Mich., lows: "From the 66 pullets we not stock hast year along with the thirty w we got 1,510 ergs in December. Can We are the first and eldest impo Leghorns in this state.

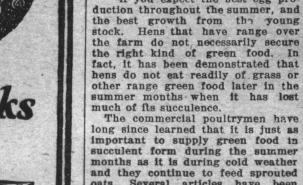
Watch our pean mmaher 17 in the Michigan E Laying Contest. It's coming strong! All fice thoroughly cuiled and properly mated to pure by cockerels. Try some real chicks this year. Ord now at new lew prices. Instructive catalogue fr BRUMMER-FREDERICKSON POULTRY FARM Box 20 Holland, Mich.

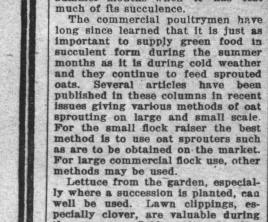
QUALITY CHICKS AT LIVE AND LET LIVE PRICES \$10 per 100 and Up

SIO per 100 and Up FROM EXOELLENT PAYING HEAVY LANDR flicks on unlimited Chieff Sources of the second second Chieff Sources of the second seco

LAKEVIEW POULTRY FARM Route 8, Box 3, Helland, Michigan

BABY CHICKS White English Lagherns, Tan Barred Plymouth Rockn, B. C. R. I. Back, But Orpingtons, All pure bred free selected steel lave arrival gamaninteed. Poetges peid. We do one tow hatching, Durand Hatchery, Fenise, Mich





ly where a succession is planted, can well be used. Lawn clippings, es-pecially clover, are valuable during the summer. Cabbage is not ordin-arily to be recommended, although there is no harm in it if not fed to excess.

An abundance of green food is es-pecially valuable for the growing chicks. Too often it is overlooked and the beneficial effects lost. It tends to supply deficient elements in the ordinary ration which, at this season, contains an excess of animal proteins, and it tends also to act as a digestive corrective and purifier. digestive corrective and purifier.

Green food, on the other hand, is not recommended for use where fowls are to be fattened for market. Most commercial feeders contend that fowls do not put on weight as readily when green food is given.

CURING HENS OF EATING EGGS We have been troubled with our hens eating eggs. Have you any remedy for this?-J. H., Clare, Mich. -The egg eating habit is more prevalent where hens are in heavy pro-duction and are receiving limited quantities of mineral matter such as is supplied in oyster shell. Close confinement and insufficient straw in the nests also help the spread of this undesirable habit. Poor quality of shell causes the heavy breakage that occurs during production. The eggs are naturally extremely palatable and are greatly relished by the hens. This trouble however, may be contin-ued to such a degree that the hens will actually break the shell in order valent where hens are in heavy prowill actually break the shell in order

to get at the contents of the egg. There is no very satisfactory rem-edy other than eliminating the ring leaders, darkening the nests and leaders, darkening the nests and placing plenty of straw in the nests to reduce the breakage as much as possible, and encourage the hens to exercise which keeps them in better physical condition. Oyster shells should be available in liberal quantities which contains mineral matter necessary in shell production. Some necessary in sheri production. Some people practice doping the eggs with some condiment such as mustard, pepper, etc. to make them unpalat-able.—E. C. Foreman, Associate Professor of Poultry Husbandry, M. A. C.

POND NOT NECESSARY

Will you please tell me thru the colums of your paper if a swimming hole is necessary to geese to insure fertility to their eggs?—M. J., Turner, Mich.

-It is not absolutely necessary to have a pond available for swimming purposes in order to maintain or to secure good fertility and hatchability secure good fertility and hatchability of geese eggs. However, if such a pond is available, the breeding pen should be located near by because of the beneficial results in the increase of fartility and hatchability of the eggs. If a pond is not available, eggs can be produced that are of good fertility although this is less liable than where water is available. good fertility although this is less liable than where water is available. —E. C. Foreman, Associate Profess-or of Poultry Husbandry, M. A. C.

March 17, 1923.



THE MICHIGAN BUSINESS FARMER



POULTRY MANURE A VALUABE BY-PRODUCT

THE average poultry raiser attaches little or no value to the manure produced by his flock. Its gradual accumulation beneath the perches of his fowls receives only occasional attention, in many instances, and even when cleaned out more frequently is thrown away. When its removal becomes necessary he considers it one of the unavoidable and unpleasant evils that go with the business.

But poultry manure has a very real value, and may become a profit-able by-product of the plant. It has been determined by the Maine Ex-periment Station, working in co-op-eration with the United States De-partment of Agriculture, that the average night droppings of the medpartment of Agriculture, that the average night droppings of the med-ium breeds amounts to 30 pounds a year for one fowl. On this basis 100 fowls would produce 3,000 pounds, or one and one-half tons. The an-alyses of this manure show it to be especially high in two of the three principal fertilizing elements. If the plant food contained in a ton of average fresh poultry manure were average fresh poultry manure were bought at the price paid, usually, for it in the form of commercial fertiliz-ers, the outlay would be about \$10. Taking into account the fact that

the quantity of manure produced in the daytime is at least equal to that produced at night, the specialists find that one average hen produces about that one average hen produces about 60 pounds of manure in a year. How-ever, only the night droppings are available for use, as the day urop-pings are widely scattered over the yards and ranges. The night drop-pings from 1,000 hens would be worth about \$150 a year. As hen manure, as it usually is cared for, contains only about one-half its or-iginal value, the loss thru this form of neglect must be very large for the of neglect must be very large for the entire country.

If immediate use is resorted to, the manure should be applied some-what sparingly. It is from two to three times richer in nitrogen and three to eight times richer in phosphoric acid than the ordinary farm manures. This, of course, is due to the kinds of feeds used, and also to the fact that the liquid and solid matter are together.

It can be handled most satisfactorily if mixed with loam to remove stickiness in the summer. In the winter it should be mixed with a fair proportion of loam, sawdust, or coal ashes, slited dried earth, land plaster or gypsum. Wood ashes and lime should never be used, as they set free the nitrogen, which must be avoided.

Keep it in a Dry Place

To put the manure on the ground in the winter should mean to lose one-half or more of its value. The better plan is to store it in barrels or boxes until time to use on a growing crop. When stored this way the container should have several large holes bored in it to a imit air. Some plants having several thousand fowls have large bins of concrete for saving this manure. Untreated, a large part of the nitrogen escapes into the air as ammonia escapes.

The Maine Experiment Station recommends using with every 30 pounds of poultry manure 10 pounds of sawdust, 16 pounds of acid phos-phate and the kainit. The acid phos-phats and the kainit prevent the loss of nitrogen, and the sawdust absorbs the excess moisture. If sawdust is not obtainable, dried earth in about the same proportion may be substi-tuted. After being treated in this way the manure should be put in a sheltered place until used. If the materials are kept handy the business of mixing soon becomes a rout-ine task.

FERTILIZERS FOR CORN

FROM 300 to 400 pounds per acre of a 3-12-4 fortility

FROM 300 to 400 pounds per acre of a 3-12-4 fertilizer is recom-mended for corn by Director C. G. Williams, Ohio Experiment Sta-tion, when neither a clover sod nor manure is at hand to help make the crop. If there is good clov-er, 300 pounds per acre of an 0-14-4 will answer, while if there is plenty of manure from 200 to 300 pounds of acid phosphate only is ad-vised. vised.

Keep the Business Farmer coming -See page 13.

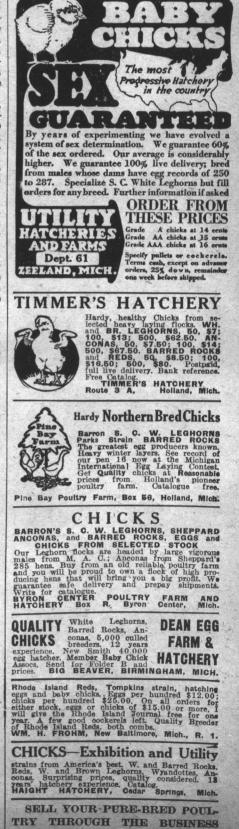
FARMER.

The Cause of White Diarrhea White Diarrhea is caused by the ba-White Diarrhea is caused by the ba-cillus Bacterium Pullorum transmit-ted through the yolk. There is scarcely a hatch without some in-fected chicks. The germs multiply very rapidly and one infected chick may infect the entire brood. The germs can be killed by the use of preventitives. Intestinal Antiseptics to kill the germs should be given as to kill the germs should be given as soon as the chicks are out of the shell. It is much easier to prevent than it is to cure.

How to Prevent White Diarrhea Dear Sir: Last spring my first in-cubator chicks when but a few days cubator chicks when but a few days old began to die by the dozens with White Diarrhea. I tried different remedies and was about discouraged. Finally, I sent 50c to the Walker Remedy Co., Dept. 683, Waterloo, Ia. for a box of their Walko White Dia-rrhea Remedy. It's just the only thing for this terrible disease. We never lost a single chick after the never lost a single chick after the first dose. We raised 700 thrifty, healthy chicks, where before we nev-er raised more than 100 a year. I'd be glad indeed to have others know of this wonderful remedy. Ethel Bhoades Shearandoab Ia Rhoades, Shenandoah, Ia.

Don't Wait

Don't wait until White Diarrhea gets half or two-thirds your chicks. Don't let it get started. Be prepared. Write today. Let us prove to you that Walko will prevent White Diarrhea. Send 50c for box on our guarantee-money back if not aatisfied. Walker Remedy Co., Dept. 683, Waterloo, Ia. (Adv.)



The Agricultural and Business Situation Revised Monthly by the Department of Research of the American Farm Bureau Fore-eration.

SUMMARY:

Foreign demand is the most uncertain element in the agricultural situation. Purchases by Europe have a determining influence upon the prosperity of the producers of wheat, cotton, pork and tobacco, and affect—to a lesser extent—other agricultural groups. What is the condition and outlook in regard to other agricultural groups. W European purchasing power?

European purchasing power? The principal ways in which our exports of commodities, the last two years, have been paid for, are as follows: (1) by imports of commodities; (2) by imports of gold; (3) by extending credit, particularly long-time credit through the purchase of foreign bonds. During these two years exports of goods have totaled 8,144 million dollars. Import figures for 1922 are not yet complete but, for the two years, will be close to 5,509 million dollars. This makes an excess of events over imports of 2,635 million dollars, which was not mainly by not of exports over imports of 2,635 million dollars, which was paid mainly by net imports of gold, for the two years, of 906 million dollars and the purchase of new foreign bonds of 1,463 million dollars. The situation for each of the two years was as follows:

• 1922	1921
Exports of goods 3,765	4,378
Imports of goods 3,000*	2,509
Net imports of gold 238	667
New foreign loans	694

*Partly estimated.

Note that exports in 1922 are less than in previous year; imports are higher; Note that exports in 1922 are less than in previous year; imports are higher; net imports of gold are less; new foreign loans are slightly more. If exports of commodities are to be maintained or expanded as is desired, one or all of the other three items must be maintained or expanded. The last item in the list, namely, new foreign loans, has declined sharply in recent months, only 23 per cent of the loans for 1922 being made in the second half of the year. Net gold imports cannot be expected to continue indefinitely and there is no reason to which that there will increase in 1923. Europe is probably in a position to send

us as many goods in 1923 as last year but much of an increase would be surprising. These factors, combined, point to a diminution of export demand in 1923. At least it will be conservative for farmers to lay their plans on the basis of a strong possibility that foreign demand for cotton, wheat and pork will be less than last year. This need not be true if improvement in European conditions increases production abroad and brings a return of confidence among American investors.

Cotton will start the new crop year with practically no carryover. the price of cotton around thirty cents per pound the incentive will be strong to plant a large acreage. Also with the price high, fertilizers and poisons will be applied more generously. The weather and boll weevil may restrict output in spite of the factors tending to increase it. A crop of 12 million bales, the average for 1916-1920, would probably not prove excessive even with lower

exports. The proportion of wheat exports to production was 27 per cent in 1922 compared with 43 per cent in 1921 and 23 per cent for the twenty year average. With Russia and the Danube countries still out of the European market, the small volume going out of the United States in 1922 was disappointing. This was partly due to an excess supply in Canada and Argentina and the substitution of corn and other cheaper grains. Europe has had two short grain years in suc-cession and will need our grain badly in 1923. With purchasing power low, Europe can be expected to continue to give preference to our cheaper grains. With wheat prices unsatisfactory, winter wheat acreage was cut three per cent

and it is anticipated that the spring wheat area may be reduced. From reports of the United States Department of Agriculture, we may con-clude that the number of hogs raised for market in 1923 will be about 15 per cent larger than last year. Pork and lard exports are now making up about 15 per cent of production compared with an average around 11 per cent before the war. Exports in 1922 show a slight decline from previous year. With an indication of a large supply of pork products in 1923, larger exports than last year would seem necessary to sustain the market.

think that they will increase in 1923. Europe is prob	ably in a position to send year would seem necessar	y to sustain the market.
I. Production and Trade	II. Foreign Trade	6. Stock and Bond Prices: Feb. 9, Jan. 12, Feb. 16,
6. Agriculture: U. S. Production-000,000 omitted.	000 omitted —December— Twelve Months	1923 1923 1922 20 Industrial stocks
Dec. 1st 1922 1922	Commodity. 1922 1921 1922 1921 Grand total, all exports\$339,352 \$291,175 \$3,765,192 \$4,378,928	20 RaHroad stocks
Estimate Average Estimate a 1921 1916-1920 Per cent 2022 2831 - 102	Beef and yeal, lb	7. Business Failures:Week Ending
Corn, bu	Neutral lard, lb 2,516 1,513 20,497 23,951	Feb. 8, 1923 Dec. 11, 1922 Feb. 8, 1923 Bradstreets 405 550 580
Oats, bu 1215 1016 197 94 Barley, bu 186 155 197 199	Cheese, lb 307 439 5,007 11,772	Duns 371 546 581
Rye, bu 15 14 14 107 Buckwheat, bu 15 14 14 197	Corn, bu 4,758 10,243 163,609 128,975	IV. Prices 1. Wholesale Prices of Farm Commodities:
Potatoes, bu 10 99 89 123 Sweet Potatoes, bu 110 99	Wheat bu 9.676 10.451 164.692 280.058	Quotations at Chicago except as noted.
Hay, an, tons 10 8 12 83 Cotton, bales 10 8 12 83 1325 1070 1378 96	Flour, bbls. 1,500 1,014 15.025 16.801 Oats, bu.	Feb. 20, Month Year 1923 Ago Ago Fat hogs, cwt., average\$ 8.00 \$ 8.30 \$10.35
Flaxseed, bu 42 38 42 100	Fruits and nuts	Beef steers, good native, cwt., av 8.85 9.35 7.55 Fat lambs, cwt., average 13.90 14.20 14.90
Peaches, bu, 57 33 33	Sugar, lbs.* 5,974 71,270 1,836,722 933,792 Leaf tobacco, lb 36,954 38,772 430,907 515,353	Fat sheep, cwt., average
Pears, bu. 19 11 14 150 Apples, total, bu 204 99 179 114 Apples, com ² L, bbls 31 22 27 115 Second Complex, com ² L, bbls 5 8 7 71	Cotton, bales 608 640 6,114 6,474 Wool, lbs. 3 82 453 1,927	(Boston)
Sugar Beets, tons b Cranberries, bbls6 .4 150	2. Imports: Ten Months	Cheese, No. 1 twins, lb
Beans, bu 18 14 17 105 Onions, bu 18 14 7 143	Commodity. 1922 1921 1922 1921 Grand total. all imports\$345,083 \$188,008 \$2,527,132 \$2,060,704	Poultry, hens, lb
Cabbage, tons	Beef and veal, 1b 4,504 3,562 31,502 25,595 Pork, 1b	Corn, No. 2 mixed, bu
Peanuts, lb 624 829 1043 59	Butter, lb 232 1,858 2,967 14,031 Cheese, lb 6,776 3,953 33,019 19,487	Rye, No. 2, bu
Hops, lb	Hides and skins \$13,487 5,252 81,915 56,670 Corn, bu 3 100 157	Kafir, No. 2 white, cwt. (Kansas City) 1.59 1.575 1.34 Hay, No. 1 timothy, ton
1922 1921 1909-13	Oats, bu	Flax, No. 1, bu. (Minneapolis)
Wheat, bu (1)	Fruits and nuts \$ 8,724 9,114 57,703 52.577 Vgeetable olls, fats \$ 5,166 3,140 50,987 31,297 Sugar, bb 432,456 362,079 8,866,467 5,109,581	Beans, white, cwt. (f. o. b. Michigan) 8.15 8.05 5.95 Potatoes, northern whites, cwt 1.10 .90 1.70
Rye, bu. (3)	Sugar, lb. 432,456 362,079 8,866,467 5,109,581 Leaf tobacco, lb. 6,285 908 57,841 42,052 Cotton, bales 28 33 266 173	Onions, midwest yellow, cwt 2.65 2.75 7.00 Apples, winter varieties, bbl 5.30 5.00 9.00
Barley, bu. (5)	Wool, 16	Hides, No. 1 native heavy, lb
Cotton, bales (7)	3. Prices of Foreign Drafts. Price of Demand Drafts Nominal Gold Value Feb. 19, Jan. 22, Feb. 20,	York)
25 countries. (6) 16 countries. (7) 500 pounds net, linters excluded.	Par of Exchange 1923 1923 1922 England\$4.87 to 1 £ Sterling\$4.10 \$4.66 \$4.39	- Prices in year 1913 equal 100. Jan., 1923 Dec., 1922 Jan., 1923
2. Mining: Figures express production as a percent of normal. In esti-	France 19.83c to 1 franc 6.06c 6.34c 9.15c Germany	All commodities (weighted average or general price level)
mating normal production, due allowance is made for seasonal variation and year to year growth.	Belgium 19.3c to 1 franc 5.33c 5.67c 8.68c Italy 19.3c to 1 lire 4.80c 4.72c 5.03c	Farm products 143 145 116 Food products 141 144 134
Anthracite coal	Spain	Cloths and clothing 196 194 183 Fuel and lighting 218 216 183 Metals and metal products 133 131 117
Bituminous coal	Denmark	Building materials 188 185 202
Petroleum	Sweden	Chemicals and drugs 181 130 159 House furnishings 184 182 214 Miscellaneous 124 122 146
Wheat flour	Argentina 42.5c to 1 peso 37.2c 39.25c 35.6c Brazil	3. Prices of Farm Products at the Farm Relative to 1913:
Sugar 136 147 144 Cotton 95 106 94 Pic Uron 105 92 58	Japan	Commodity: Dec., 1922 Nov., 1922 Dec., 1921
Steel ingot 89 88 48	4. Discount Rate of the Bank of England: Feb. 14, 1923 Month Ago Year Ago	Cotton 198 192 130 Corn 117 111 72 . Wheat
Lumber 129 79 Wood pulp 91 92 Gasoline 111 103	3% 3% 5%	Wheat 135 129 118 Hay 107 115 110 Potatoes 92 90 173
Cement 127 127 98 Wool 113	III. Money and Credit 1. Gold, Currency and Bank Deposits:	Beef Cattle 89 89 78 Hogs 102 104 89
fPreliminary. *Not available. 4. Building:	000,000 omitted Jan. 1, Dec. 1, Jan. 1,	Eggs 229 239 265 Butter 162 155 152
December Twelve Months 1922 1921 1922 1921	Stocks of monetary gold in the 1923 1922 1922	Wool
Contracts awarded in 27 States :	United States\$ 3,943 \$ 3,909 \$ 3,657 Total supply of currency in the	The quantity of various commodities which a given amount of each farm product would purchase at prices prevailing in 1913
(F. W. Dodge Co.) Number	United States	is put equal to 100. The figures given represent the percentage of this quantity which the same amount of farm products would
Value (000,000 omitted)\$ 215 \$ 199 \$ 3,346 \$ 2,359 5. Transportation:	Total deposits in National Banks. \$16,599 \$16,321 \$14,561 Jan. 1, Dec. 1, Jan. 1,	purchase in December, 1922. Prices at the farm are used for agricultural products, and wholesale prices at central markets for
Week Same Same Week Ending Week Week Ending	1923 1922 1922 Deposits in New York City banks. \$ 4,000 \$ 3,850 \$ 3,910	other commodities. All Com- Cloths, Fuel, Metals, Building House
Feb. 3, Month Year Feb. 3, Freight car loadings: 1923 Ago Ago 1922* Total 865.675 770.303 753.886 115	2. Gold Movement: 000 omitted	modifies etc. etc. etc. Mtls. Furnige Cotton
Total	December Twelve Months 1922 1921 1922 1921	Corn
Livesuck Livesuck	Exports of gold\$ 2,710 \$ 2,162 \$ 36,875 \$ 23,891 Imports of gold 26,440 31,666 275,170 691,248	Potatoes 59 47 43 70 50 51 Beef Cattle. 57 46 41 68 48 49
Forest products 69,767 57,530 50,204 139 Ore 11,239 9,718 4,015 280	3. Federal Reserve Ratio: Feb. 14, Jan. 17, Feb. 15, 1923 1923 1923	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Merch. and Miscel 505,286 425,097 429,705 118 *As percentage of week year ago.	Ratio of total reserves to deposits and Federal Reserve note liabil-	Butter 104 84 75 124 88 89 Wool 135 109 98 161 114 116
7. Bank Clearings: Units of \$1,000,000,000	ities combined	Average purchasing power of all farm products in terms of all other commodities. Same basis as above table.
Jan., 1923 Dec., 1922 Jan., 1922 New York City\$19.78 \$18.90 \$17.30	Jan., Dec., Jan., 1923 1922 1922	1913
Outside New York City 17.52 10.51 13.59 Mail Order Sales:	4-6 mos. commercial paper 4.72% 4.88% 5.15% 60-90 days commercial paper 4.40% 4.62% 4.90%	1915
January , Seven Months Ending January	5. Discount Rate of Federal Reserve Banks: Feb. 1, Jan. 1 Feb. 1,	1917 106 September
1923 1922 1923 1922 Montgomery	Range of rates for the twelve	1919 111 November 66 1920 86 December 62 1921 67 January, 1923 62
Ward & Co\$ 8,477,239 \$ 5,594,153 \$ 56,261,864 \$ 47,263,497 Bears Roebuck 18,930,082 14,188,422 118,592,681 101,788,110	banks on commercial agricultural and livestock paper	1921 67 January, 1923 68
and the second states and the second states and the second states and the	and the second in the second sec	

MARKET FLASHES

FOOTE'S MARKET LETTER By W. W. Foote

THE cost of living is increasing and is much higher than a year ago, and farmers are complaining of their great increase in taxes above pre-war years, while their farm profits have been far lower. A matter of interest to dairy farmers is the recent arrival in New York of a cargo of 5,320,000 pounds of butter from New Zealand, and the arrival the same day of 2,500,000 pounds of poultry in the same city from California, both by way of the Panama Canal. It was stated at the same time that a fleet of butter carrying ships was on the sea carrying nearly 10,000,000 pounds of New Zealand butter destined for consumption in this country, and predictions were made that it would force prices for domestic butter lower. According an agreement between the Chicago milk distributors and the milk pro-ducers association, composed of dairy farmers in Illinois, Wisconsin and Indiana, the wholesale price fell ten cents per hundredweight a few days ago, the new rate to be in force until the first of May. The new price of milk for twelve gallons of milk fell from \$2.50 to \$2.40. No reduction was made in prices to consumers.

Grain on Farms

Reserves of grains on farms in the United States on March 1 aggregated 1,706,000 bushels of wheat, corn. oats, rye and barley, as given by the government report, being 187,000,-000 bushels less than last year and 822,000,000 bushels under two years ago. It is estimated that reserves are ample for domestic and normal are ample for comestic and normal export requirements until the next crops. An increased percentage of the wheat crop was moved from the farms this season, this amounting to 67.1 per cent, comparing with 61.7 per cent last year and a ten years average of 57.7 per cent. One-third of the wheat reserves are held in the four northwestern state⁻, amounting to 51,706,000 bushels, of 24,700,000 bushels more than last year. Corn supplies on the farms of 1,087,000,-000 bushels were 210,000,000 bushels less than last year and 477,000,-000 bushels less than two years ago. A heavy consumption of oats is shown by reserves of 421,514,000 bushels.

Prices for wheat hold up remarkably, although sales are made far below the prices paid one and two years ago. Sales are made of May de-livery wheat in the Chicago market around \$1.20, comparing with \$1.37 a year ago. May corn sells at 74 1-2 cents, comparing with 62 1-2 cents a year ago; May oats at 45 cents comparing with 39 1-2 cents last year; and May rye at 83 3-4 cents, comparing with \$1.06 1-2 a year ago. Cattle in Moderate demand

The only way that will keep prices for cattle from declining is for stock-men to market their holdings moderately, avoiding large shipments at one time. Many more cattle are re-ported as feeding in the corn belt than a year ago, and because of the comparative cheapness of hog pro-ducts, they are largely substituted for beef. The present tendency of cattle prices is to narrow, very few prime beeves being needed to meet the demand, and late sales of beef steers offered on the Chicago market were largely at a range of \$7.75 to \$9.50, with the best lots at \$9.50 to \$10, a few head of 1135-pound long yearlings fetching \$10.40. Steers grading as good are salable at \$9 and over, medium grade lots going at \$8 and over, and sales down to 6.40to 7.75 for common to fair lots of light weights, a few inferior little steers fetching 4.25 to 6.25. The packers compete with country buyers for fleshy feeders, a moderate business being carried on in stockers and feeders at \$5.25 to \$8.40, sales being principally at \$6 to \$7.75. Most stockmen hesitate about loading up with thin cattle at high prices, as they are afraid of the future market for finished cattle. Spring calves have been marketed liberally, causing bad breaks in prices, with recent sales at \$5 to \$11.50. Prime heavy steers and fairy yearlings sell at

MARKET SUMMARY

Wheat steady. Corn and oats unchanged. Beans quiet after small decline on opening day of week. Supply of butter moderate and demand good. Receipts of eggs exceed demand. Potatoes firm. Poultry steady. All live stock steady to active and higher.

(Note: The above summarized information was received AFTER the balance of the mar-age was set in type. It contains last minute information up to within one-half hour of to press ----Editor.)

Most cows and heifers sell at \$10. \$4.50 to \$6.50, prime heifers going at \$8 to \$8.75. A year ago the best steers sold at \$9.40 and eight years ago at \$8.75. Excessive Hog Supplies

Stockmen owning hogs and cattle are marketing rapidly, being opposed to a long feed, and hog receipts are especially large, causing frequent. declines in prices. Eastern shippers are purchasing a much smaller pro-portion of the swine offered on the Chicago market than several weeks ago, and lack of competition between buyers has forward, the dealine in ago, and lack of competition between buyers has favored the decline in prices. Comparisons with prices pair a year ago show a big decline, the top at that time having been \$11.50, the high point for 1922, but last November the best hogs sold down to \$7.85. There has been a marked inc case in the marketing of pigs and underweights, and the spread in prices has narrowe ! materpigs and underweights, and the spread in prices has narrowe 1 mater-ially, the bulk of the hogs selling within a range of 35 cents. Prime light bacon hogs still top t market, selling 25 cents above the best heavy butchers. Recent Chicago re-ceipts of hogs averaged 229 pounds. The principal bullish factor in the hog trade is the extremely large consumption of lard and fresh and cured meats at home and abroad, ex-ports continuing much heavier than ports continuing much heavier than a year ago. During last week Chi-cago received 215,650 hogs, comparing with 194,865 a week earlier and 150,798 a year ago. And yet the good demand put prices higher, closing sales being made at \$7.25 to \$\$8.65, comparing with \$6.90 to \$8.45 a week earlier and \$9.50 to \$11.30 - year ago.

Early Spring Lamb Supply The early spring lamb supply available for the markets of the country promises to be materially larger an to start to market earlier than last year, according to the Bur-eau of Agricultural Economics. This applies to lambs which go to market before the first of June. California lambs are expected to arrive in the markets in large volume in April, while marketing from the southwest will not be well under way until May. Marketings from Tennessee and Ken-Marketings from Tennessee and Ken-tucky for April and May promise to be larger than last year and about the same as in 1921. Last fall the number of breeding ewes in those two states was estimated as 7 per cent larger than a year earlier, and earlier breeding than usual was the rule. Lambs from Virginia will move later than the Tennessee and rule. Lambs from Virginia will move later than the Tennessee and Kentucky flocks. Such states as Iowa, Illinois, and southern Ohio begin marketing lambs in June. These lambs are dropped mostly in Febru-ary and March Ewes generally ary and March. Ewes generally wintered well, and are in good con-dition all over the corn belt, feed be-ing plentiful. Shed lambs dropped in February and March in Idaho be-gin to go to market in June. Wooled lambs are selling, in Chicago et lambs are selling in Chicago at \$12.75 to \$15.25. The University of Wisconsin had a car load of superior fed western lambs that averaged 87 pounds on the Chicago market recently that sold at \$15.25, the top price. Sheep are making much more money on the Wisconsin farms than either cattle or hogs, both lambs and wool selling extremely high. Shropshires lead other breeds, but Cheviots are becoming more popular in parts of Wisconsin.

WHEAT

Prices in the wheat market fluctnated considerably during the past two weeks. The forepart of this period the trend was downward and during the last week prices have ad-vanced until at Detroit they closed last Saturday within 1-2c of the clos-

ing price on the same market two weeks previous. During the entire time the news circulated about the market was very bearish, but it ap-pears that bearish news has been used so long to bear the market that it is losing influence on prices. The wheat outlook, as far as present wheat is concerned, could not be much more bearish, but that has been the case for a long time and no attention is paid to it. Strength is coming from the new crop outlook, which is far from favorable. The southwest needs rain and any pre-cipitation in recent days has not been over the dry district. This is the over the dry districts. This is the most important point in the grain sit-uation and will be for some weeks or until spring weather has definitely developed the strength of the plant. Foreign news is more favorable to

the constructive side of wheat, but export buying has not yet given much evidence of returning life. Some bullish dealers believe they see an early end of the Ruhr trouble. The invasion of Germany by France is held as the reason why Europe is not buying American wheat and it is believed the buying would be resumed should the French settle up and ed should the French settle up and go home. Foreigners took about half a million bushels of durum wheat last week, buying it at Min-neapolis. James A. Patten says: "I believe that the whole question of a continued movement back to general continued movement back to general prosperity rests upon a return to the former relation between the price of farm products and such commodities as the farmers need to buy. I re-gard corn as the keystone of the agri-cultural arch and fortunately every condition appears present for a price range for the rest of the year that will do much toward restoring the farmer to his position of the greatest element of purchasing power in our population." Prices

Detroit—Cash No. 2 red, \$1.35½; No. 2 white, \$1.35½; No. 2 mixed, \$1.35½.

Chicago—Cash No. 2 hard, \$1.19-½ @1.20½; No. 3 hard, \$1.19. New York—Cash No. 2 hard, \$1.34; No. 2 mixed, \$1.25.

Prices one year ago—Detroit, No. 2 red, \$1.37; No. 2 white, \$1.34; No. 2 mixed, \$1.34.

CORN

Corn showed more strength on the closing day of last week than probably at any time during the past two weeks and considerable grain chang-ed hands as demand was active and selling of good volume. Bearish news has dominated the market recently but a bullish statement was given out that offsets the bearish in-fluence. Mr. James A. Patten, in discussing the domestic needs after March 1 to the new crop, stated that present corn reserve of 1,089,-000,000 bushels is short by 119,000,-000 bushels of our actual consumpceipts are smaller than expected.

Prices

Prices Detroit—Cash No. 2 yellow, 79c; No. 3, 77c; No. 4, 75c; No. 5, 73c. Chicago—No. 2 mixed, 74@74-½c; No. 2 yellow, 74 ½ @ 75 ½ c. New York—No. 2 yellow & No. 2 white, 93c; No. 2 mixed, 92 ½ c. Prices one year ago—Detroit, No. 2 vellow 64 ¼g: No. 2 63c

2 yellow, 64 1/2 s; No. 3, 63c.

OATS

Oats are quiet and steady with the Detroit price at the same level as two weeks ago. Cash oats are reported in good demand.

Prices Detroit—Cash No. 2 white, 49½c; No. 3, 48c; No. 4, 46½c.

Chicago-Cash No. 2 white, 46@-

46% c; No. 3, 44@45% c. New York—Cash No. 2 white, 56c. Prices one year ago—Detroit, Cash No. 2 white, 42c; No. 3, 40c.

RYE

Demand in the rye market is light. Export business is at a standstill and indications are that it will remain that way until some kind of a settle-ment is arrived at in the sections where war threatens. Domestic de-mand is very light and has been for some time. The future trend of rye will depend much on what the other some time. The future trend of rye will depend much on what the other grains do.

Prices Detroit—Cash No. 2, 84½ c. Chicago—Cash No. 2, 83½ c. New York—Cash No. 2, 96c.

Prices one year ago-Detroit, Cash No. 2, \$1.02.

BEANS

The bean market continues steady in tone with prices unchanged. Trading is rather quiet at present but it is expected to show more activity soon.

Prices Detroit—C, H. P., \$7.75. Chicago—C. H. P., \$8.00@8.25.

Prices one year ago-Detroit, C. H. P., \$6.65.

POTATOES

Potatoes are firm in spite of the fact that receipts are in excess of the demand. Prices are higher at many points than they were two weeks ago. Receipts on western markets are small while markets in the east are plentifully supplied. Dealers are inclined to be backward about buy-ing more than for immediate needs as they feel that prices should go lower.

Prices Detroit - Michigan, \$1.17@1.33

per cwt. Chicago-Wisconsin round white, 90c@1.00 per cwt; Idaho russets, \$1.15@1.35. Prices one year ag-Detroit.

Michigan, \$2.06.

HAY

HAY Markets have been steady with a decidedly stronger feeling in the central western section. The stormy weather had a strengthening effect on most markets as the demand pick-ed up and arrivals delayed. The eastern terminals report slightly larger receipts and prices have soft-ened a trifle from a week ago. ened a trifle from a week ago.

ened a trifle from a week ago. Prices Detroit—No. 1 timothy, \$16@-16.50; standard, \$15.50@16; light mixed, \$15.50@16; No. 2 timothy, \$14@15; No. 1 clover mixed, \$13@-14; No. 1 clover, \$13@14. Chicago—No. 1 timothy, \$21@23; light mixed, \$18@19; No. 2 timothy, \$17@19; No. 1 clover, \$13@15. New York—No. 1 timothy, \$27@-28; No. 2 light mixed, \$24@26; No. 2 timothy, \$25@26.

2 timothy, \$25@26. Prices one year ago-Detroit, No.

1 timothy, \$19@20; standard, \$18-@19; No. 2 timothy, \$17@18; No. 1 light mixed, \$18@19.

Alfalfa—Chicago, No. 1 and choice, \$23@25; No. 2 standard, and

\$15@19.

MISCELLANEOUS MARKET QUO-TATIONS Detroit, Tuesday, Mar. 13th

APPLES-Greenings, \$1.60; Baldwins, $$1.65 \oplus 1.90$; Spy, $$2 \oplus 2.50$; other varieties, $$1.50 \oplus 1.75$ per bu; western boxes, $$2 \oplus 3$; in barrels, Greenings, $$5.25 \oplus 5.50$; Baldwins, $$55.0 \oplus 6$ \$5.50 @ 6. HONEY-Comb,23 @ 25c per lb.

HONEY—Comb.23 @ 25c per lb. POPCORN—4 @ 4½c; Little Bust-er, 7½ @ 8c per lb. DRESSED CALVES—Best, 15 @-16c; medium, 13 @ 14c per lb. DRESSED HOGS—90 to 130 lbs., 11 @ 12c; 130 to 169 lbs., 9 @ 10c; heavy, 5 @ 8c per lb. LIVE POULTRY—Best chickens, 26 @ 27c; leghorns, 22 @ 24c; stags, 24c; medium and large hens, 26 @-27c; small hens, 24c; roosters, 17c; 27c; medium and targe nens, 200 27c; small hens, 24c; roosters, 17c; geese, 20c; ducks, 30c for large and 27@28c for small per lb. BUTTER—Best creamery, in tubs,

47@47½c per lb. EGGS—Fresh, 26@26½c per doz.

March 17, 1923

-DIRECTORY= Advertisements inserted under this heading at 30c per agate line, per issue. Commercial Baby Chick, advertisements 45c per agate line, Write out what you have to offer and send it in. We will put-it in type, send proof and quote rates by return mall. Address The Michigan Business Farmer, Advertising De-partment, Mt. Clemens, Michigan.

POULTRY BREEDERS'

PULLETS, HENS AND COCKERELS S. C. White Leghorns and S. C. and R. C. Black Minorcas. Must make room before cold weat w. About ready to lay. LAPHAM FARMS, Pinckney, Mich.

LEGHORNS

LEGHORNS Buff Leghorn Hens, Pullets and Cockerela, and pullets \$2.50 each; cockerels \$3.00 te each. Show birds a matter of correspond-LAPHAM FARMS, Pinckney, Mich. S. C. Hens \$5.00 YOUNG AND WYCKOFF WHITE LEGHORNS Selected hatching eggs \$2.00 a setting. Prepaid circular. F. Arthur Martin, Indian River, Mich. PEDIGREED S. C. ENGLISH W. L. COCKER-els. Egg record 275 to 300 each \$2.00 JOHN W. MORGAN, Yale, Mich.

WYANDOTTES FOR SALE-HEIMBACH'S WHITE WYAN-dottes Few A1 cock birds and cockerels. Hatching eggs in season. Write for prices. C. W. HEIMBACH, Big Rapids, Mich., R. 5. FOR SALE-PURE BRED PARTRIDGE WYAN-FRED RIERSON, R. 5, Bronson, Michigan. WHITE ROCKS- HEAVY LAYERS- CHOICE Quality. Guaranteed eggs, 15, \$1.50; 50, \$3.50; MRS. FLORENCE HOWARD, Petersburg, Mich. WHITE WYANDOTTES MARTIN STRAIN, WAYNE CHIPMAN, R. 2, Washington, Mich.

SILVER LACED AND WHITE WYANDOTTES Four large, beautiful roosters. Eggs \$2.50 per 15. C. W. BROWNING, Portland, Michigan.

PLYMOUTH ROCK

BUFF ROCK EGGS BY 10 LB. MALES and 1st Cincinnati, o., winners, Hogan tested hons, heavy layers, J. O. CLIPP & SONS, Box M. Saitillo, Ind. BARRED ROCK COCKERELS AND PULLETS from America's best prize-winning laying straina. Winners of 18 first prizes at Detroit and M. A. C. the last two seasons. Low prices. TOLLES BROS, R. 10, St. Johns, Mich.

BARRED ROCKS. EGGS AND BABY Chicks from Silver Cup winners and Champion Winter Layers. Eggs \$2 per 15 and Chicks from 18c up delivered. Circular free. FRED ASTLING, Constantine, Michigan.

JOHN'S BIG BEAUTIFUL BARRED ROCK Cockereis, light and dark color, Sold on approval \$3.00 to \$6.00 each. Circulara. JOHN NORTHON, Clave, Michigan.

THOMPSON HEAVY LAYING BARRED ROCK ergs. \$1.75-15; \$3-30. Dark matings. MRS. FRED KLOMP, St. Charles, Michigan. BARRED MOCK COOKERELS, NORMAN Strain, shipped on approval, express paid. MRS. JESSIE C. DEAN, R. 1, Mason, Mich. BARRED AND WHITE ROCK HATCHING eggs for sale from exhibition utility stock. Farm-ers, prices. Dawsons' Farm, R. 4, Muskegen, Mich.

FOR SALE—FINE COCKEREL \$2.50 FROM Shoemakers. Also 7 months old Belgian Hares, \$5.00 s pair. C. STRONG, Essexville, Michigan.

ORPINGTONS

BUFF ORPINGTON COCKERELS PURE BRED BUFF ORPINGTON EGGS AT 52-15: \$5.50-50. Prepaid. MRS. ANNA LA NOUE, Fostoria, Michigan.

RHODE ISLAND REDS

FOR SALE-S, C. RHODE ISLAND RED COCKEERELS, Pure bred, Mankood strain, Vigorous, dark, large red birds.Price \$3 spices or 2 for 55.00. ALFRED DEICHMANN, R. 3, Pigeon, Michigan. C. REDS, GOOD LAVING STOCK, FINE or. Hatching eggs, \$6.00 per 100. Limited mber of chicks, \$16.00 per 100. EDWARD CRYDER, Alamo, Mich.

TURKEYS-DUCKS-GEESE BOURBON RED TURKEYS UNRELATED

THOS. G. CALLAGHAN, Fenton, Mich. BIG BRONZE TOMS VEARLing 18 Cincinnati, O., Winner. J. C. CLIPP & SONS, Box M. Saltillo, Ind.

FINE VIGOROUS BOURBON RED TOM years old. Evan's strain. MARY BEACOM, Mariette, Michigan.

MAMMOTH BRONZE TURKEYS. TOMS 12 ba. \$20, hens 10 lbs. \$15, Eggs \$8 for 10. Raiph Wise Nurseries, Bex 151, Plainwell, Mich. FOR SALE: ONE PURE BRED DARK MAM-MRS. BERTHA HALLADAY, Ashton, Michigan. FOR SALE-GIANT BRONZE TURKEVS FROM Michigan's best strains. Large healthy birds. MRS. LAVERNE BROWNELL, R. 1, Belmont, Mich. FOR SALE-WHITE HOLLAND TURKEYS. Write for prices. MRS. DON ROSS, R. S. Mariette, Michigan.

LAMMOTH PEKIN DUCK E008 FOR SETTING 200 or two settings \$3,00. Also Wild Malard back enes name price. Yery choicest stock. All deep property Bood Farm, Okamos, Mich.

THE MICHIGAN BUSINESS FARMER

WOOL Wool prices in the middle west re-main on a steady to firm basis, with trading of good character, though not of very large volume, on account of the shortage of stocks. Reports of the shortage of stocks. Reports from the west indicate that growers are inclined to hold for good prices, better financing arrangements and the general feeling of optimism be-ing factors in this tendency. Throughout the country the trade seems to feel confident that wool prices will be steady to firm this spring season. . C spring season. PLUS POSTAGE THE WINDLE BEAMINES MANAGEMENT WEEKLY MARKETGRAM U. S. Bureau of Agricultural Econ-omics Washington, D. C.—For the week ending March 10, 1923. FEED—Demand quiet. Deliver-ies of wheat feeds by flour mills heavier and track stuff is available in Minneapolis. Cottonseed meal mark-et weak; transactions small. Export-ers bid \$46.50 for slab cake delivered Gulf Ports. Fair feeding demand from west. Hominy feed offerings exceed demand and prices are easier. exceed demand and prices are easier. Gluten feed unchanged, demand fair, production heavy. Linseed meal in liberal supply at lower prices. In-terior demand fair. Storage stocks of wheat feeds good. Movement light. Quoted March 9—bran, \$28.-25, middlings \$28.50, flour middlings \$30, Minneapolis: 36 per cent cotton-seed meal \$40.50, Memphis, \$41.50 Atlanta; 34 per cent linseed meal \$47.75, Minneapolis; \$48.75 Buffalo; gluten feed \$42.65 Chicago; white hominy feed \$29 St. Louis, \$29.50 Chicago. Why are we buying western ap-ples by the pound, when our own Michigan apples rotted on the trees



Chicago.

last fall?

Week of March 18

ILD weather coming at the end MILD weather coming at the end of last week or beginning of this will be followed by a cold wave, temperatures falling to be-tween 10 and 15 degrees above zero on or before Tuesday the 20th. Heavy local rains will change to sleet and snow which is liable to cause local hinderances to trafic or com-munication. The winds at this time will also be high.

munication. The winds at this time will also be high. About Wednesday temperatures will begin to moderate rapidly in this state and during Thursday or Friday one may expect showers or snow flurries.

At the end of this week there will be another change to colder but we do not believe it will be as severe as the previous low temperature period. Week of March 25

Cold, fair days and nights will be the rule during early part of this week but by Tuesday or Wednesday light rain or snow will be in evidence in Michigan. Unsettled conditions will continue for the balance of the week but we believe there will be about or a little above the average amount of clear sky, notwithstand-ing. ing.

Beet Sugar Outlook

The outlook for the Michigan sugar beet sugar content is fairly prom-ising judging by what we believe the weather will be during the coming summer and fall. It will not be however, the best kind of a sugar beet year for all parts of the state. While the rainfall will be heavier during some of the summer months

than others, we believe June, July. August and September as a whole will average about normal.

We estimate that a very late plant-ing of sugar beets in Michigan will produce a greater tonnage that the early seeded crop and that the sugar content will be equally as good.

FOUR TOULOUSE GEESE FOR SALE. ONE JOHN BLOCHER R. 3, Woodland Mich.

HATCHING EGGS 8. C. White Leghorns. Tom Barron Strain, 250 organithis line. November to April, sverage 65 per cent. Pure white plumage. Hange grown. healthy, vigorous stock. Eggs \$1.50 per 15; \$4.00 per 50; \$7.00 per 100. Prepaid. Line-ited supply. Order from this ad nov. MAPLEWOOD POULTRY FARMS C. W. Bores, Prop. North Star, Michigan.



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