#  BUSINESSFARMER <br> An Andependent 


"It Takes a Good Gambler to Plant 'em Again!"
In this issue read: "Legislature Closes Session in War-Like Array" - Senator Couzens Urges that Michigan's Cut-Over Lands be Reforested, and in a Special Message to Readers of the Business Farmer


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Either males or spayed females pedigree with each puppy. Father imported and mother on one of the largest stock farms in Michigan. Wonderful worker. Puppios guaranteed.

## He Current Adricultural News

INCREASED BEAN PRODUCTION

M'ICHIGAN elevator companies are taking part in a nationacreage and production of beans in every state to such an extent that the domestic market will not be dependent on foreign grown stock at any time of the year, it was announced today at the state headquarters

The movement was started in the New England states, it is said, and is rapidIy being taken up all over the home-consumption of increase the exchange authorities claim but to make pork-and-beans a national dish in place of corned beef and cabbage.

If enough beans can be produced to care for the normal consumption demands in this country, the shippers claim, the farmers will still be
able to get a fair price for his crop able to get a fair price for his crop and be assured of disposing of all he
raises. It is up to the farmer to raises. It is up to the farmer to make his crop the predominating one to increase production to said, and where the foreign producers can not compete in this country.

## MASON DAIRYMEN START <br> TESTIEG

Mthird darymen organized the Testing Association County Cow ing held in Mason week before last. Twenty-six of the leading dairymen of the Mason vicinity joined in the association.

A tester is to be employed who will spend one day a month on one farm of each member, obtaining milk weights, feed weights, and a butter fat test on each individual cow. It is expected that these recas to the producing quality of the cow, and that the undesirable and unprofitable cow may be eliminated from the herds. Better feeding methods will be practiced, it is elaimed, through the efforts of the association.

Mason-Ingham Cow Testing Association is the fortieth assoctation to be organized in the state. Ten new organizations are expected to organize in the near future which will bring the Michigan total to fifty.
PLAN DRIVE ON MILK DEALERS
NOT LICFNSTD
DROSECUTION of all milk dealers in Michigan who have not procured their state license is on the program of the dairy department of the state department of agricul ture, according an announcement of activities. It is the hope of the de partment that all 2,700 dealers will be reached before the end of the fiscal year June 30.

Most of the large dealers in the tate have obtained the licenses nee essary, according to Mr. Broughton, but there are a number of one-man wagons for which licenses have not been issued, and it is to these that the department is turning its attention. The erring dairymen first is given an opportunity to comply whe law, and prosecution is the were started during April, according to the records turned into the ofice here. In the same time but two prosecntions were started for watering milk.
The state also-revoked the license one tester, who was detected giving incorrect readings at one of the cream buying stations.

MICEIGAN LIVE STOCK EX
CHANGE PAYS DIVIDEEND.
OCAL associations of the Michi-
gan Live Stock Exehange will lividend of about $\$ 7,000$ which the Exchange is paying to associations Which have patronized the Live Stock Exchange's Cooperative House past year. nd represents a refund to cavings patrous of. $10 \%$ of all commisstime paid to the Fxchange for sales get vice. Michigan Frehange estahlish
ed a cooperative commission house at the Detroit yards May 1, 1922 led 4,129 carloads of stock out 12,616 sent to market of $30,5 \%$ on the tatal business. The business handled by the Detroit Cooperative Commission House the first yea shows a net savings of $\$ 17,500$ which is a savings of about $25 \%$ of the commissions paid for service. The Live Stock Exchange charges the regular commissions. The Ex change voted to return $10 \%$ of all commissions paid to members or $\$ 7,000$. The remainder gives the House a reserve fund to busiress It also belomes to th members. members.
second Mive Stock Exchange is the ng exchange to community marketdividend within deelare a patronage Last week the Michigan Elevator Exchange paid its member associations a patronage dividend of $\$ 8,000$. The Michigan Potato Growers Exchange has been paying patronage dividends for some time past. The foregoing commodity exgan State Farm Bureau.

## CURWOOD BUIIDS HIS OWN

CASTLE
James Oliver Curwood, Owosso uthor and naturalist, who is buildng a studio after the fifteenth cenan acre of land across the purchased ee river from his studio Shiawaset out a minature forest of pines, firs, balsams and spruce.
FARM BUREAU HANDEFS MORE SEMED FOR 1923
Nearly twice as much certifted seed has been handled by the state in 1922 it is said year as was sold 1922, it is said, while the amount creased about 400 per cent or inyear ago.

## STARIE COLHECITION OF FATON

 W00FThe 1923 wool pool of the Michigan State Farm Burean started as sembling of wool for the season at Eaton Rapids on April 30th. A flat advance of 25 cents per pound is made at the time of pooling, with final settlement when pool is sold.
HURON PARM BUREAU SEAEKS NEW MEMBERS
"Every Huron farmer a member," is the keynote of the County Farm Bureau Association drive to open
July 16 Alfed Bentaal of the state organization outlined the work of the campaign in a talk before the board of directors at their monthly meeting last week. Extensive demonstrations in ditch blasting, stump and stone blowing, using pioric acid, will be started by the association

INTERENATIONAL EGG LIAYING
CONTHEST AT M. A. C. The week ending May 1 completes considerable increase contest and a is evident. The weeks total reached 3,609 eggs and the total production to date is 71,954 . All groups registered an increase, the White Leghorns leading with $61.0 \%$, Anconas second with $54.0 \%$, Barred Rocks third with $46 \%$, Rhode Island fedth $38.0 \%$, White W, miscellaneous with $38.0 \%$, White Wyandottes with
$\mathbf{2 9 . 0 \%}$. $29.0 \%$.

Michigan State Highway Department Bulletin No. 46, May 1, 1923 Gravel and macadam roads in the southern part of the state are now in a softened condition and may be easily injured by heavily loaded trucks and busses. To avoid undue damage to these roads county road put forth every effort to protect the roads until they become more settled and safe for normal traffic. The max imum carrying capacity of tires on an vehicles traveling these roads while the frost is coming out of the ground shall be limited to one-hali the carrying capacity of the tires as provided by law; and in no case
shall a vehicle bs operated on the

# The Frichigan BUSINESS FARMER 

# Legislature Closes Session in War-Like Array 

## Governor's Veto of Gasoline Tax Brings Retaliation from House so Weight Tax Loses-Senate then Refuses Byrum Income Tax and Possibility of Extra Session Looms

Tdurintiement of many issues during the closing hours of the to what most nerve-racking legislative ses sion" in his memory. The Gover nor's antomobile weight tax, the in come tax, and the proposed new mehool interest fund were leadin mensures the fote of which was not determinad nutil nearly the final hour of adjournment.
Much of the jam in the legislative machinery was caused by fallure o the Senate and the House to reach in the monent over the various ation bills. As a rule the Senate wa mors liberal than the ilouse, and de sired larger appropriations for the University of Michigan, the Michigan Agricultural College and the genera building program for the other stat a
As in the elosing hours of the many previous sessions, it was are
gretable fact that many of the mos gretable fact that many of the mos
important issues were not settled en tirely apon their merits, log-rolling and vote-swapping seemed to deter mine the fate of most of the big bins that came up in the closing hours.

Reforestation Promoted
Measures to promote the orderly development of the northern part o the state have received final legisla tive approval. The Senate concurred unazimously in the action of the House in the passing of the Meggired tax on forest growth.
Under the terms of this bill, the owner of any timber lands, or lands chiefly valuable for the growth o timber within this state, may apply to the Commissioner of Agriculture to have such property set apart fo the grotion, the application is approved by the Commissioner of Apriculture the land shall thereafter be taxed at the rate of 5 cents per acre annually After a 25 year period the timbe would be subject to cutting, under seneral control of the Commissione of Agrieulture, who would guard against wasteful methods. At this time the owner of the timber would be assessed a-tax equal to 25 per cent of the stumpage value of the timber cut, to be paid into the state treas ury.
There is a provision in the bill Which would prevent it from work ing a hardship on any local taxing
unit. Section 6 of the bill provides that "The state administrative board may, in its diseretion, advance to the ownships in which any forest re serve lands ile, such sums each year out of the general fund of the state as will compensate them for the amount of taxes which would be col leetible from such forest reserve ands had they not been registered, There was a general feeling that not adopted for the production of ot adopted for the production o duets, and that the passage of this bill would go a long way toward the most economical utilization of large areas of northern kichigan, and would do more to promote corest dein paternalistic tree planting by the

Land Certification Approved Another bill sponsored by Rep.
Meggison which has for its object Meggison which has for its object the orderly settlement of Michigan farm land was passed by the Senate
with but one megative vote, This
was the so-called land certifleation

By STANLEY M. POWELL

## BITTERNESS BLASTS HOPES FOR CONSTRUCTIVE

## mgislation

WHEN the smoke or batue his ession of the Michigan state Legislature, legislative ob ing" Tpgila probably agree that "to reantly charen a ot because thature, as has heen so frequently charged, it is deas, but berause the bitterness come there with constructive ax, whe bitterness which developed over the ga entative ar senal utterly impossible. There if the Governor hai adonted a little different attitude in his dealngs with the Legislature, all this unpleasantness and failure of constructive accomplishment might have been averted
In some far off Etopia there may some time come such a pure orm of representative government that issues wit be decided and settled solely on their merits, but that day is not yet. Under prseant condiaions every action seems to be a compromise aud and log rolting seems to settle the fate of most of the bills of najor importance.
The squabble over the gas tax and the weight tax is a case in point. After the House had attempted to pass the gas tax over the Governor's veto and had displayed a rather cool attiude towards the proposed weight tax for motor vehicies, as important House bills. When the House refused to be brow seaten and by a vote of 56 to 41 defeated the weight tax, all hope hat the Senate would pass the major House meacures was gone Big bills which were the vietims of this unfortunate condition provide a more just and desirable system of distributing the provide a more. just and desirable system of distributing the nary school interest fuad. Nearly all of the tax verom as a rebuke to the House for not falling in line behind the weight In view of this situation the question naturally arises "Why should the House pay such a high price to kill the weight tax?" The answer is rather complicated, but one meed no look tan anal debate in speaking in opposition to the bill said, "This has ceased to be a question of a gas tax or a weight tax, it is now a question of whether or not representative government shall prevail in Michigan.
The representatives felt that the weight tax was being forced On them by the Governor after he had arbitrarily vetoed the gas ax whinh the people seemed to favor strongly. They also dition of he provisions of the birl thich Diace Administrative Board. This they regarded as being another effort to build up a strong political machine for the present administration

Development Bureau of the State Department of Agriculture

The provisions of this measure are entirely optional and no one need have his land certified unless he de
sires. The owners of worth1ess sires, The owners of worthless an
will probably not care to have theij holdings subjected to inspection and certification by the State Commiscertifcation by the state of Agriculture. The evident
sioner purpose of the bill is to protect those desiring to purchase Michigan land from deceptive practices of unscrup ulous land sharks.

> land Sharks, M. A. C. Gets Stadium e proposal to loan mone The proposal to loan money from the general fund of the state to fin ance the building of.a stadium at the
Michigan Agricultural Coliege, as Mavored by Gov. Groesbeck, has pass favored by Gov, Groesbeck, has pass
ed both branches of the legislature. The bill provides for the loan
$\$ 160,000$ from the state to the Col lege for the construction of the init-
ial unit of an athletic stadium. This loan must be repaid in ten equal ad nual installments beginning in 1924. made out of receipts of athletic con tests to be held in the proposed stadlum. Defectives to be Sterilized
One of the mot sensational de-
bates of the closing hours of the session centered around final passage through the House of Senator Sligh's bill to authorize the sterilization of
mentally defective persons. Those mentally defective persons. Those
who advocated the bill declared that Who advocated the bill declared tha
ment for many cases and that it increased both the physical and mental welfare of the individual to "make
good" in his loead community with the minimum amount of supervision: Rep. Baxter of Grand Rapids, who筑 the fight for this measure in the of this bill would allow the state of ficials to release at least one hundred inmates from the institutions for the feeble minded at Lapeer and that 10 percent of those now eoming to his institution could be left at large in their home communities if this dill were passed. The great financiresult from the adoption of such a policy was also pointed out by Rep. policy
Baxter

Discrimination Bill Passes Senator Bernie L. Case's bill to he purchala was amendd by the House to include grain and eans and was passed by them 85 to mall local private and co-operative levators and marketing associations rom the unfair competition practicd by some old-line dealers. It has nscrupulous dealers to temporarily ay more than the market price in owns where a small elevator is trying to get a start in order to freeze
out competition. These dealers have ut competition. These dealers have been able to pay this higher price
less than the market price in localtties where they had no competition. Senatior Case's bill was drafted by the Michigan State Farm Bureav and had the active support not only of that organization, but also of the Michigan Potato Growers Exchange. Drain Laws Codified
One of the constructive measures enacted during the closing hours of the session was a revision and codistate. This bill repeals a multipilicity of separate and somewhat disconnected acts and provides a simple and workable general drain taw for Michigan. There had been no codification of the drain laws for 26 years and conditions were such that to look ip the law to look up the law regarding any
drainage project. After being involved in one of the most knotty parlimentary tangles general game law, the most interesting feature of which is the protection afforded to quail until 1930, was passed without opposition by a vote of 94 to 0 . Rep. Rowe who spon-
sored this bill has fought hard for its passage for several months, but because of some of the other features of the bill it has had a very was tearty strangled to death by parliamentary tangle of red tape.
After prolonged debate the House Atter prolonged debate the House
passed by a vote of 75 to 16 Senator
Sligh's bill to reveal the public acts of 1909 , which, exempts from taxation bonds issued by any county, township, eity, village or ready passed the bill which provide an annual specific tax of 3 mills on such securities, but unless the Sen-
ate also passes this measure, municipal securities will be taxed on the ad therem basis. If the Senate does the Governor will veto the sligh bill Senator Condon's bill to contro the possession and sale and use of pistols, revolvers, and guns and to plaee their sale under strict governHouse committee of the whole with House committee o
out a record vote

Senate Dodges Tax Issues The Senate has displayed a dispos ition not to pass any of the import been proposed and sanctioned br th House. Rep. Byrum's state incom tax bill has never emerged from the Senate Taxation committee Geo, C Watson's bill to limit the tax on real and personal property for state pur han 2 per int a year was defeated than 2 per cent a year was defeated This measure appeared in the form of a constitutional amendment which would of necessity have been submitted to the voters for their approval. Senator Horton maintain ed that sueh an important tax reform and he submitted to the voters lent the declared that he felt confispeech in havor would pass it. In a that real estate in Michigan is now bearing practically 80 per cent of the but 33 par alhe represert the state. Rep. Charles Evan's bill o limit in a similar manner taxes erty for local-purposes was postpon ed from day to day in the Senate and finally referred to the taxation warring's bill to prevent the sprea warring's bill to prevent the spread

9

## SENATOR JAMES COUZEN

POSSIBILITIES for re-foresting the cutover Michigan pine lands mer by the special committee of the Senate which is considering a national reforestation policy, Senator James Couzens announce Mr. Couzens, a member, of this
ommittee, has returned from a two committee, has returned from a two
weeks adjacent to the Gulf of Mexico where the situation ts similar to tha
in Michigan. He is about the advantages, both industri ally and in tax revenue, which ef
fective re-forestation would produce Mr. Couzens suggests that the
Michigan Legislature should considMichigan Legislature should consid-
er immediately the Louisana system er immediately the Louisana syst
of taxing areas being reforested. How They Do It
The fundamental of the, Louisiana
law is the reducing of taxes on lands during the unproductive period lands during the unproductive period of
re-forestation, the revenue being reimbursed t
mate lumber
this concession, land owners bind themselves not to cut any growing timber until the trees have reached
a specified size, and then to limit their cut so that the re-forestation process will be continued permanently.

Originally these Louisiana re-for estation areas were valued for taxa-
tion at $\$ 1$ per acre, but this valuation now has been increased to $\$ 3$, is three mills to the dollar, the annual tax on the land is 9 cents per The one serious weakness of the Louisiana law, as developed in the Senate committee hearings, is its
failure to provide for dividing the tax revenue between the state the the counties. The law specifies that
the contracts between the land the contracts between the, land
owners and the state must be apowners and the state must be ap-
proved by the county boards of supervisors, but fails to allow the The counties, in effect, are asked to strike the re-forestation lands
from their ta. rolls, without any compensatory return. The natural result has been that the country prove re-forestation contracts.
Mr. Couzens believes the tax re-
turn to the state during the reforestation process should be limited to a sufficient fund to maintain an adequate conservation system, to
provide fire protection and such provide fire protection and such
supervision as is necessary to insure compliance with the contract. The remainder of the current revenue he would urn over to the counties, the division of the tax yield when the timber finally is harvested.
Experts who appeared before the denuded timber lands amount o from which virtually all of the trees have been removed, and which is not in use for farming and other pur-
poses, at $81,000,000$ acres. There also are considerable areas where
most of the timber has ben moved but sufficient trees been revide for natural re-seeding. of the latter sort, all that is necessary for
re-forestation, the experts held is assurance that the lands will be left undisturbed and adequately protect-

## Reforest Michigan Cut-Over Lands

## Senator Couzens Urges that Michigan Legislature Take Immediate Steps to Bring About Reforestation

from fire. The general
opinion was that 75 per cent of the whole reforestation ites Perect
The benefits from
estation in a state like Mich estation in a state like Mich
igan, which now is a large importer of lumber, are easy to estimate, Mr. Couz ens declared.

Southern producers told me privately that they start
out by placing a value of out by placing a value of
their timber at $\$ 10$ per 1000 feet, based on their advant against the Pacific Coast region, which now has the arger part of the virgin Corests," in the United say, the lumber growers of Louisiana, Florida, and Mississippi can sell their lumber in the North and East On an. equality of price with the oesterners, and take an extra profit
of $\$ 10$ per thousand, due to difference in freight rates
Peninsula of Michigan in the Lower Peninsula of Michigan, and consumof course the advantage in shipping costs would be even greater. It does not require an expert economist to figure, on this basis, the great profit to be derived from re-foresting the
barren sand wasts of Northern Michigan, to producers, consuming industries and the Government treasuries
alike. alike

Revenue Diverted
Louisiana, the lumbermen restation in Louisiana, the lumbermen early protax" of one-half of one per cent on

## The Reforestation Possibilities in Michigan By SENATOR JAMES COUZENS

THE evidence secured by the Sen ate Committee on Reforesta ed from a ten days' trip in the Gulf States, where they held numerous hearings, indicates that the public are generally alive to the neeessity of prompt action in promoting the growth of trees. Public interest in this is greater than most of us supposed, and a much greater interest is being manifested every day than the average person believes, and this dition. This does not meang how-
dits a most dition. This does not mean, howmore to be done in an educationa Way to point out not only the neces from reforesting rom reforesting our cut-over land possibly for other lands best adapt ed for tree-growing
done two outstanding things to be done to encourage private reforest ation are fire protection and stabil ization of taxes. It has been quit clearly developed that $75 \%$ of the proper fire protection is assured, and proper fire protection is assured, and
then there will be nothing standing in the way, whe nothing standing a taxation plan that will tate adopt owners of timber lands to reforest Many states are giving earnest sideration to these matters, and some of them have adopted plans which are most encouraging and from which all states can learn. The Committee witnessed several activities based on the plan of perpetuat-
ing lumber operations. These were ing lumber operations. These were
based primarily in protecting the cut-over lands, which were showing ber lands. Really as the virgin tim knows what wonderful one actually ments can be obtained by protecting the forests from fire. Evidences existed everywhere of the damages that fire had done to young growth of timber. These enterprises retheir holding against fire, but they
taking such of the land that had ing pine trees. Lands that they are cutting, they are limiting their cuts to trees over 12 inches in diameter and where the stand is larger than this, they are leaving seed trees which automatically re-seed the cut over land, and where protected from are establishing large paper mills o as to eliminate every waste sible. They are taking their tree tops and under-sized part of the tre and using it for pulp purposes. They re conducting their turpentine op One arge undertaking at Bogalusa, La s conducting an operation which is planned for an operation in perpet can be done. The State that this na is pioneering in assisting in protection and growth of timber by making contracts with private own rs on a basis of stabilizing taxes in the parishes or countries at three dollars per acres, which with a thirty per year would be nine cents per acre per year. The taxes remain on this and when the fim, or twenty year gross income tax or yield tax is paid to the State government, which tax is used in part for fire protection. adaptable land, of course, is more being done. Many farmers, with large acreage, could, with profit, grow trees on the least valuable of their agricultural land. The State of Michigan, the evidence shows is doing admirable work in the conserby studying some could do more adopted by other States of the plans

While the Commit
completed its hearings, and has not completed its hearings, and will not enough information has developed to show that our people are going to grow forests, and with continued Federal aid and co-operation see to it that our timber supply does not it that our timber
re-forestation, even under existing adverse conditions, was an encourinstance Bogalous our hearings. For established in the middle of chl years ago was a virgin of what, 14 years ago, was a virgin pine forest. which is proceeding on the enterprise that, by the time their original timb new crop, and that they will be able to maintain their business permanently on its present basis.
ter of Bogalousa in park in the center of Bogalousa in which were literally hundreds of thousands of little pine trees, ultimately to be trans planted on the cut-over lands. This company is proceeding with re-forestation, both by transplanting and with every appearance of success." The committee will resume its in vestigation in June on the Pacific Coast, and will work eastward, probably arriving in Michigan in August. which members of the committee which made the trip south, in addition to Mr. Couzens, are Senators Chan C Fletcher rick Harrison, of Mississippi.

HOW SHALL FERTILIZER BE APPLIED FOR POTATOES? $T \mathrm{HE}$ question of the proper for potat applying fertilizer there is a considerable difference of opinion among potato growers of Michigan. All agree that fertilizer should not come in actual contact with the seed pieces. Some growers preanting while cast fertilizer before planting, while olhers believe that applicalionment on the either with means of separate machine, is the proper method. In the light of present information, it is not possible to state definitely which is the best method, but it is possible to point ont the factors that favor one method against another.
When to Broadcast

An occasional failure to secure results from fertilizer on potatoes is an amount. 200 or 300 pounds of ertinzer per acre spread broadcas ansive crop application for an infull henefit suh as potatoes. Th eived until the root system of cop has covered the entire of the ween the rows. It has been pretty definitely established by experiment hat the fertilizing elements in the soil solution move principally up ward and downward in the soil, and that there is very little movement sideways. The young plants there in thean feed only on the plant food in their immediate root zone, which etrated the entire area have pentween the rows and the of soil be row, all of the fertility in the soil can be drawn upon. By this time however, the crop has been prett well established, and the plant food will not have the same efficiency in making the crop as it would have, had it been available to the young plants in giving them a quick vigor fit of the fertilizer is, the full benefit of the fertilizer is not likely to be the nitrogen or amponia the case of no phosphoric acid and potash are lost from the soil, but nitrogen may be lost very rapidly in leaching and drainage. In the broadcast application of fertilizer containing a small amount of nitrogen the amount of the nitrogen that is actually utilized by a cultivated crop is open to quesplying fertilizer for method of applying fertilizer for potatoes, howwhen fairly large amoints of phosphatic or potash fertilizers are applied to build up the soil supply.
Fertilizer in the Row

The methods of eastern growers, particularly in Maine and New Jers-
ey, are worthy of consideration be ey, are worthy of consideration be-
cause they represent a practice based on the cumutlative experience

## PICTURES FIROM FAR AND $\mathbb{N E A R}$



THE SPEED OHAMPS OF MONKEYLAND.-Left to right: "Man O' War" and "Spark



AWAITING T"EIR FATE IN "UNDERTAKERS ROW", HOG ISLAND. These costly vessels and many others, representing millions of dollars spent feverishly by America during
the war, lie ldie awaiting a purchasel. Although they are offered at a small fraction of tueir
cost no ne will buy wouldnt it be better for Uncle Sam to operate them as a merchant
marine rather than allow them to rot down?


HIS FIRST BITE IN TWO DAYS.-A ravenously hungry and ragged little Hungarian ehild who is tasting the stale loaf of
bread, the frist bite he has had in tw otays. Tre poverty
striken populace tace starvation and disease unless immediate
aid is given.


SMALLLEST CHURCH IN THE WORLD.-It Is so tiny that only three, besides the preacher, can pray in it at the
same time. it it probably fitted to the needs of the con-
gregation. gregatlon, Many years ago a monk named Father otto.

HIGHEST PAID WOMAN PLAYER IN WORLD.Lizie, Murphy of Eddle Carr's AAI AR IN WORLD Team, Bosion,
Mas., who pulis down $\$ 300$ weeky for her services as
a star baseball player. This youly a star baseball player. This young lady is a real first
sacker and takes her turn at- the platter, asking no favors.





160,000 BUSHELS-AND A GOODYEAR BELT
$\square$

I have threshed an average of 2,000 bushels $a$ day on each of 20 days in the past forr threshing seasoss with my Goch
year Klingtite Belt. I wouldn't trade it for a new belt of any other kind today."-GBORGB SAUNDERS, Stratford, So. Dalk

YOU can depend on a Goodyear Klingtite Belt to do its work powerfully, sliplessly, and trouble-free. It holds the pulleys in an easy, free-swinging, clinging grip. It doesn't shrink, and is subject to a minimum of stretch. Needs no dressing, no breaking-in.

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

## VALVES - PACKING <br> GOODSTEAR



## ALL AROUND SATISFACTION FOR

 ANY CULTIVATIOH PURPOSE What Would YOU Like to Study?





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##  4 <br> They contain <br> practical suggestions

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No. $185-$ Heg wances, Gives ompletedi-
rections for the construction of a
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and mites, also to prevent disease.
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ANIMAL INDUSTRY DEPARTMENT OF
Parke, Davis \& Co.
DETROIT, MICHIGAN


## Farmers Service Bureau

$\pm=25=5=5=5=5$

## AGREEMENT IS BINDING

 Some time ago friting for some advice. school of domestic arts and sciences to learn dressmaking. The application blank read as follows:"I send herewith $\$ 5$ and agree to pay $\$ 5$ each and every month hereafter from date of this application until I have aid $\$ 65$." I find that I am not able to make the payments and I haven't the time to study the lessons. I have written to the school several times and explained it to them, but still they keep writing me
for payments. I have aid $\$ 15$ on for payments. I have aid $\$ 15$ on the course and have received five
lessons. Will you kindly advise me if they can hold me to such an agree-ment?-Mrs. S. M., Bangor, Mich.
Such an agreement would be valid, and binding upon both parties. You could not avoid your liability under the contract on the ground that you haven't time to study the lessons.
When you entered into the contract, you agreed to perform certain acts, and in consideration thereof, the company should refuse to send the number of lessons agreed to
send, or should otherwise to perform send, or should otherwise to perform
their part of the contract, you would feel that you had a right to hold you fail to perform your part of the contract, they should have a right to hold you to your agreement.
The facts you have given me do not indicate that there was any frand or mistake which would relieve you of your duty to perform,
and if the company has done its part and if the company has done its part
under the contract, they could comunder the contract, they could compel you to do your part, or to pay
them damages for your failure to do so.

The proper time to consider the nature of your obligation, and whether or not you wil be able to
perform, is before you attach your signature to the contract. I would admonish you at all times, to think carefully before signing your name
NOT RIGHT TO SET TRAPS ON YOUR LAND
I would like to know through the columns of your valuable paper if a neighbor has a right to place a dea my farm, after I have forbidden him to do so? He claims he can set traps wherever he likes. Thanking you for your trouble I remain.-H. Mc. K., Alpena, Michigan.
-Your neighbor would have no right to go upon your land and set traps without your permission.-Assistant Legal Editor.

THINNING VARNISH STAIN Will you please inform me thru your columns, how 1 may properiy thin varnish stain? I have a quart can that had not been tightly sealed
and has thickened to the consistency and has thickened to the consistency
of heavy molasses.-Mrs. J. L. P. Curtis, Michigan.
I would advise that you let the can of stain in a dish of hot water, add about $1 / 8$ to $1 / 4$ pint of turpen-
tine. Then thoroughly stir until all tine. Then thoroughy stir until all
dissolved then strain through cheese cloth or a very fine screen. S. B. Howard, College Painter, M. A. C.

INSURING SCHOOLHOUSE
Our local agent for old line insurance companies tells me the attorney general has made a ruling making it unlawful foer us to insure schoolhouse in the Farmers Mutual Insurance Co. Is this true and if so has he the right to do so when the charter of our insurance company gives it the right to insure in Benzie, Manistee and Mason counties? schoolinouses is enumerated a among the forms of property to be
be insured.-J. M.,Bear Lake, Mich. The statute authorizing the orThe statute authorizing the organization of tarmers mutual insur-
ance companies was amended in 1919, and in its amended form does not include schoolhouses as property that may be insured. As to whether
or not this limitation applles to companies already organized, or only to
statute. I would suggest that you write to the attorney general's office a ruling on this matter.
When a charter is granted corporation by the state, it usually contains a provision which reserve to the state the right to repeal it by subsequent legislation.-Asst. Lega Editor.
APPLY TO STATE HIGHWAY COMMISSIONER
Am writing for information as so many others are doing. I live on a most impassable part of the are al At such time it is impossible to get a doctor, were it necessary. There has been no work on this road, of any account, for not less than ten years and which ever way I go must travel over one and one-haif miles to reach a good road. Some three years ago $\$ 1,000$ was voted to re pair this road and the money was used elsewhere and we are still wadng mua. Have complained to the different and evade the issumely inis there anything that can be dowe to compel those in anthority be done road which will be fairly decent? We do not expet a paved thoroughare, but would like a square deal Our highway tax has gone to build goods roads elsewhere. Now would like some of the henefits at home. Is there any way in which we can get it?-A. H. Y., Alma, Michigan. -If your county or township officlals will do nothing apply to the state highway commissioner at Lansing. We are sure he will assist you
if possible. -Editor.

## PERSONAL PROPERTY

Can manure be moved off rented land? A rents land from B. There was no contract. A feeds his stock on B's land. Can A haul manure off B's place?-Subscriber, Saut ste Marie, Mich.
-Manure in the barnyard is personal property, and a tenant who furnishes the feed which it was produced from would have a right to SIGNERS OF APPLICATION FOR DRAINS
In making application for a county drain or dredge drain how many names are necessary on the applishoun and is it necessary the names of tha be of those along the banks other words to be dredged, or in or are liable to pay but very little tax sign the application and put a dredge through when but a small per cent of land owners along the stream are in favor of such dredge, and in case such a dredge goes thru
is it right that those along the stream pay the debt of the tax when free holders miles back, sign said petition to put it thru? After the drain is suryeyed and blue print out is it possible to stop said drain providing said drain is liable to bankrupt the farmers along the drain?-
A. S., Perry, Michigan A. S., Perry, Michigan.

Dection 1 of Chapter 3 of the Drain Law provides that the application for the establishing, widening, deepening or extending of the drain shall be signed by not less than onehalf of the treeholders whose lands are traversed by such drain. It is construction of the drain if all the proceedings have been regular and in accordance with the provisions an the statute unless the drain coinmissioner and others intereated were willing to discontinue the proceed-ings.-H. H. Partlow, Legal Adviser State Highway Deartment.

COULD COLLECT INTEREST I have a question to ask. I would like to have you to answer through your paper. In October 15, 1918, I entered a contract with a party for
the sale of my place. Princinal interest was to be paidincipal and months, but he has paid only the in terest the last two years, and the intime to get that. I started the hard those heraatter organizad wo
pend on the interpreretation

## Sidewall Protection

Back of the outstanding success that comes to only one in a hundred business enterprises lies some service to mankind that makes success inevitable and profit automatic. It is our good fortune to have perfected such a commodity, and to reap the resulting harvest.

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References: R. G. Dun \& Company, The Bradstreet Company Detroit, Chicago and Grand Rapids Banks on Application

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dust-proof housing: its extreme dust-proof housing; its extreme ac plowing. Operates 26-in. separator PRICED BELOW ALL OTHER RATING. A simaller brother to the A-C 20-35 leading 4 plow job of he "grain states.
$\mathbf{N}^{\text {EVER in the }}$ farming has an oppory of ered. The Allis-Chalmers 6 12 puts speed and thoroughness behind every operation Hitched to a six or eight foo seeder, you can now put in rom 18 to 22 acres during a ten hour day. And this is only one of 45 jobs this tractor will Th with the same efficien afford not to own one!
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of a wid you ever stop to think how many revolutions the wheel of the ground at the same speed that at marmotor shonold roll 1 along the surface
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## The Hunted Woman

 By James Oliver CurwoodMichigan's Own and America's Formost Author of the Great Northwest
(Continued from April 28 th issue) CHAPTER XXI
$F^{\text {OR a minute, perhaps longer, }}$ John Aldous stood staring at in his hand. It was the he held Culver Rann-not once did he question that fact, and not once did the though flash, upon him that this might be only an unusual and start-
ling resemblance. It was assuredly Culver Rann! The picture dropped from his hand to the table, and he went toward the door. His first impulse was to go to Joanne. But
when he reached the door he lockedit, and dropped into a chair, facing the mirror in his dresser.

The reflection of his own face was a shock to him. If he was pale, the cavern concealed his pallor. But the face that stared at him from out of the glass was haggard, wildiy and almost grotesquely haggard, and he turned from it with a grim laugh,
and set his jaws hard. He returned o the table, and bit by bit tore the photograph into thin shreds, and then piled the shreds on his ash-tray and burned them. He opened a smell of charring paper, and and fresh, cool air of paper, and the struck his face. He could look off through the fading sunshine of the valley and see the mountain where Coyote Number Twenty-eight was to
have done its work, and-as he lookhave done its work, and-as he look-
ed he gripped the window-sill so ed he gripped the witdow-sill so
fiercely that the nails of his fingers were bent and broken against the wood. And in his brain the same over and over again. Mortimer Fitz Hugh was not dead. He was alive. He was Culver Rann. And Joanne still the wife of Mortimer FitzHugh -of Culver Rann!
He turned again to the mirror and
there was another there was another look in his face.
It was grim, terribly grim-and smiling. There was no excitement, nothing of the passion and halfmadness with which he had faced He laughed softly, and his nails dug as harshly into the palms of his hands as they had dug into the sills) of the window.
"You poor, drivelling, cowardly "And you dare to to his reflection. think she is not your wife?",
As if in reply to his words there came a knock at the door, and from "Here's MacDonald, Aldous. He wants to see you.
old hunter enter the door and the " "If I ain't interruptin' you, "You're the one man in the world I want to see, Mac. No, I'll take that back; there's one other I want
to see worse than you-Culvert Rann." Soe than you-Culver
The strange look in his face made old Donald stare
chairs clown," he said, drawing two something to talk about. It was a terribly close shave, wasn't it?" As "An awful close shave, Johnny. As close a shave as ever was.
Still, as if not quite understandngg what he saw, old Donald was staring thed it hns
ous, and his voice became softer "us, and his voice became softer.
"She loves me, Mac. It all came out when we were in there, and thought we were going to die. Not ten minutes ago the minister was here and he made us man and wife.'
Words of gladness that sprang to the old man's lips were stopped by that strange, cold, tense look in the face of John Aldous.
"And in the last five minutes,"
ontinued Aldous, as quietly as be continued Aldous, as quietly as be-
fore, "I have learned that Mortimer FitzHugh, her husband, is not dead. very remarkable not find me happy, Mac? If you had
"Oh, my God! Johnny! Johnny!" MacDonald had pitched forward
over the table, and now he bowed
and his gaunt shoulders shook as his voice came brokenly through his "I did it, Johnny; I did it for you an her. When lin would mean for her- 1 couldn't Johnny, I couldn't tell her the truth, cause I knew she loved you, an' you oved her, an it would break her heart. I though it would be best, an' you'd go away together, an' nohappy. I didn't lie. I didn't sey happy. didn't lie. I didn't say there weren't no bones in the grave!" "My God!" breathed Aldous.

There were just some clothes went on MacDonald huskily, "an the watch an' the ring were on top. Johnny, there weren't nobody ever buried there, an' I'm to blameI'm to blame."
And you did that for us," cried over and gripped old reached hands. "It wasn't a mistake Mac I thank God you kept silent. If you had told her that the grave was empty, that it was a fraud, I don't know what would have happened And now-She is mine! If she had seen Cuiver Rann, if she had discovered that this scoundel, this blackmailer and murderer, was Mortimer "Johnny! John Aldoas!"
Donald MacDonald's voice came now like the deep growling roar of a she-bear, and as he cried the other's name he sprang to his feet, and his eyes gleamed in their deep sockets like raging fires.
'Johǹny!'
He nodded "That's it," he said. "Mortimer ' An '-an' Culver Rann!
"Absolutely. Mortimer FitzHugh's photograph to destroy. I am sorry that I burned before you saw it. But there is no doubt. Mortimer FitzHugh and uver Rann are the same man." slowly the old mountaineer turn of him, and stood with his hand on the knob;

I don't want you to go yet, Mac.' said Donald clumsily, little later,
"Jonald!
For a full half minute they looked steadily into each other's eyes. Only a week, Johnny," pleaded "You mean that you will kill him. "He'll never come back. I swear it , Johnny!
As gently as he might have led Joanne, Aldous drew the mountaineer back to the chair.
murder," "he said, "and cold-blooded the murderer. I can't send you be to do my killing, Mac, as I might send out a hired assassin. Don't you see that I can't? Good heaven some day-very soon-I will tell Hou how this hound, Mortimer FitzHugh, poisoned Joanne's life, and did his worst to destroy her. It's to me he's got to answer, Donald. And to me he shall answer. I am going murder. Since you have not be this room I have made my final into and I shall follow it to the end plan, ly and deliberately. It will be a great game; and I shall play it happily, because Joanne will not know, and I will be strengthened by her
Quade wants my life, and tried t hire Stevens, up at Miette, to kill me. Cuver Rann wants my life; a greatest desire of his existance to have me dead and out of the wey shall give him the chance to do the killing, Mac. I shall give him splendid chance, and he will not fail to accept his opportunity. Perhaps he will have an advantage, but I am as absolutely certain of killing him behind the mountains out there. If others should step in, if I should
have more than Culver pant

## Plant Certified Seed for Better Potato Grop

Growers Fail to Realize Amount of Money They Lose Through Planting Diseased Seed Potatoes

By H. C: MOORE

T AST year over 1,000 growers in Michigan planted Michigan Certified Seed Potatoes in comparison with uncertified, seed. A, summary of the results reported by these men showed that the average increase in yield secured from the certified seed was 45 bushels per acre, and that the quality of the crop grown from certified seed was far superior to that from ordinary seed. Many growers reported that approximatuced from cerfified seed were marketable while only 60 per cent or so of the crop from uncertified or soed could be marketed. In all cases the certified seed was planted under the same conditions and handled in the same manner as the uncertified seed. The reason for the better yield of high quality potatoes from the certified seed was that it was free from serious diseases and was from vigorous high yielding strains, while the uncertified seed was generally infested with disease and was lacking in vigor.
If growers realized how diseases such as mosiac, leaf roll, spindling sprout; etc., reduce the yields and lower the quality of potatoes, they would make disease free high quality othing but disease rree high quality seed. All of the diseases here named live over in the seed potatoes and produce weak hills and plants or abnormal growth which have low quite common for fields planted with ordinary seed to show 25 per cent or more of these diseases.
The planting of certified seed can be considered a very good form of potato crop insurance for this seed when planted in good soil and grown under good cultural conditions will produce a satisfactory crop of good quality potatoes. Uncertified or ordinary seed potatoes contain a high percentage of diseases and may produce a very poor yield ever when grown under the best concitions.
The initial cost of poor seed may be very low but the resuets it qives. in poor yields and poor quality makes it too costly for any poaso this year for planting puor seed when high quality certified seed is available at very low cost.
In 1922 Michigan growers bought only 22 per cent of the certified seed that was oflered for sale in the seed was sold outside of the state. Pennsylvania last year took 52 cars of Michigan Certified Seed. This seed gave the Pennsylvania planters 50 per cent greater yields than did the uncertified seed with which it was tested. This season Pennsylvania has already bought over 150 cars of certified seed from Michigan

Ohio, Indiana, Illinois, Maryland, Virginia, Missouri, New Jersey, Constates that are buying considerable
quantities of Michigan seed potatoes Certified potatoes are shipped in bags containing 150 pounds. Each bag is sealed with a lead and wire seal to which is attached the oficial green tag, of the Michigan Potato Producers the polat the should ceipt of from the sack and should emptied from the sack and should be put in a cool well ventilated place frost.
During warm weather seed potatoes are often injured by being left in sacks for several days. If they are spread out on the cellar or barn floor they will not become heated and their sprouts will not be injured.
There hás been noted a tendency among growers to be too economical with certified seed. Since the cost of the certified seed is a little great er than that of ordinary seed many of them are apt to cut the seed so that it will cover as large an acreage as possible. Cértified seed should be cut so that each set" weighs approximately 2 ounces. Each seed piece should contain one or two
strong eyes. If the sets are cut strong eyes. If the sets are cut well in the planter and will not dry out quickly in the soil. One should figure on planting 15 bushels or more of seed to the acre.
During the past few months several car loads of certified seed have been bought by Michigan farmers In some of the counties the farmers have placed their orders for certified seed with their County Farm Bureau, Local Cooperative Associations of local dealers and have thus been able to get the potatoes, on the basis of car load rates and have made considerable saving in freigh charges.
Those interested in securing certified seed potatoes should write to the Secretary of the Michigan Potato Producers' Association, East Lansing, Michigan.

SEEEK LIME NEED OF FARMS

$\mathrm{F}^{\mathrm{t}}$every farm in the state, in or der to take the "guess" out of he important work of liming Michigan soils, is the ambitious program which has been adopted this spring yan Agricultural College.
Accomplishment of the extensive testing, operation has been made possible by the perfection of a simple yet accurate method of testing soils, developed by Prof. C. $\Psi$. Spurway of the college soils staff. This is called the Soiltex Method, and in using it a farmer, or his wife or chil dren, can determine in one short opration whether or not a soil needs ime, and just about how much.
distributed from the college soils is distributed from the college soils section on request, contains enough gether with detailed directions.



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Men who have worn. Rouge Rex shoes say they never thought leather could last so long, or keep its softness after wetting. You'll note how thick the leather is in Rouge Rex shoes. Then you'll marvel at its velvet-like flexibility. We make a Rouge Rex 1000 Mile Shoe for every work purpose. For field and factory, for oil field, camp or lumbering. And every shoe is horsehide through and bility yet making it so flexible through that you can wear it all day, day after day, and it never tires your feet.

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You'll say, after wearing a pair of Rouge Rex, that this is the most economical shoe you ever bought. For it outlasts all other shoes, and it gives the satisfaction of perpetual comfort and ease.

If your dealer hasn't the Rouge Rex we will see that you are supplied through our nearest dealeri Write us for his namé.

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## A Telephone Personality

In your face to face contacts with people, your appearance, your bearing and many other things help you to make the right impression. But in your telephone contacts there is only one thing by which you can be judged-your speech
An effective telephone personality is to-day a business and social asset. Everybody appreciates the person who speaks distinctly and pleasantly, neither too fast nor too slow, with a clear emumciation of each word, with lips facing the mouthpiece and speaking into it In business, this is the telephone personality which induces favarable action on the part of the listener. To the salesman it may mean the difference between an order and no order; between an interview granted and an interview refused.
Curiouly enough, people who are carefill to make themselves effectively heard and understood face to face, often disregard dhe meed for effectiveness in their telephone speech. Perhaps they shout, perhaps they mumble, perhaps they hold the mouthpiece far from their lips. And frequently they never realize that their carelessness has defeated the purpose of their talk.
The Bell System maintains for telephone users the best facilities that science, modem equipment, skilled operation and careful management can bring to telephone speech. But these facilities can be fully effective only when they are properly used.
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reoommending the use of

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## GQNERAL






## FRUIT AND ORCHARD

SPRAY RINGS IMPROVE FARM ORCHARD PRODUGYION

THE co-operative spray ring, developed in connection with demonstrations in orehard spraying is solving the problem of spraying the small home orchiard, for an increasing number of larmers, according to reports to the United States the plan has been used most extens ively in Iowa, farmers in Minnesota Missouri, Wisconsin, MWinois, and Ohio find it a good method, and on the Atlantic Coast several ebunties in Comnecticut and New Jersey organized rings in 1921. In Iowa, the mamber of counties reporting the organization of spray rings increasel from 16 in 1921 , to 31 in 1922. Seven oounthes in Tilinois report new spray rings in 1922. Stark County, in 1921 , Whas beeome so inter two rings 19 1921, has "become so interestea in
the care of the farm orehart the care of the farm orehard that six power-machine rings and five in the summer of 1922 , serving more than 100 home orchards.
The plan of organization of these The men interested in spraying get together at one of the extension meetings and decide to try co-operative spraying. Usually a written agreement covering the method o managing business matters and the ownership of equipment of the ring is prepared and signed. The kind selected and the cost appportioned, a selected and the cost apportionied, bens decide whether each man will do his own spraying with the co-op erative equipment, whether some one member will spray all the orch ands for am agreed labor price, or whether an outside person will be hired to do the work. Fach of the Innee plans has prowed satisfactory. In Poweshiek County, Iowa, they
have found it most reonvenient to do have found it most ieanvenient to do
the work individually; in stark County fllinois, the same plan is followed. In Union County, Iowa, the sons of two farmers operated the ishing a team and the other a line engine. They sprayed 14 onch ards, some 1,500 trees, completing each spray in two days, the members giving little or no attention to the work. Students of Runnells Consolidated School in Polk County, Iowa, sprayed practically all the
orchards in their community. Adorchards in their community. Ad-
vice as to sprays and time of applyvice as to sprays and time of apply-
ing is usually obtained from the ing is usually
The size of the ring varies, averaging .rom 3 or 4 members in the smanest ones to 20 or more. in the
larger. The cast of operation depends, of course, on several factors, the type of equipment, whether labor is employed or the work done by
members for themselves the distmembers for themselves, the dist-
ance between orchards, the number of sprays put on, and similar items. For one orchard in Webster County, the average cost of material per tree the average cost of material per tree
was 37 c , labor 33 c , depreciation on machinery 5 c , making a total cost of 75 c per tree for the four sprays. A
Union County, Iowa, ring spent $\$ 210$ for equipment, material, and the labor of two men and teams, and sprayed 1,500 trees four times. A twelve-orchard ring organized in Johnston County, Iowa, several years
ago, spends about 15 c per tree per ago, spends about 15 c per tree per
spray. The results, according to the spray. The results, according to the
owners, more than justify the small owners, more than justify the small expenditure. In every case where the spraying was done as advised its object and the accomplished plenty of clean, sound homegrown apples to store for winter nise The Webster County orchard prodineed 99 per cent clean fruit. Fayette County, Iowa, reports in the spraved orchards 75 per cent of the fruit as clean and sound, and 25 per cent scabby and wormy; the unsprayed orchard 15 per cent sound, clean
fruit and 85 per cent scabby and fruit and 85 per cent scabby and wormy- Walworth County, Wisconsin, spray ring members figured
in 1922 a neturn of $\$ 852$ for each in 1922 a return of $\$ 852$ for each
dollar spent in sprayins. The bearang trees were sprayyed three times Hesults of spray ring work in
the surplus fruit was a problem, as none of the members had had any experience in pickiug, packing, or were shown by extenty-ilive men how to pick and pack theit warkers using homemade equipment apples, surplus apples were put on the market in baskets and boxes maelked according to market grades.

COULD COLLHOT INTHEREST (Continued from Page 6) on October 15, 1918 , and was to after that every six montins therement after Aprit 15, 1919 October 15, 1919. I dated it April 15 to octaber 15, 1919, but i should have dated it October 15, 1919 therefor 1918 to April as though it was giving him enedit as though it was paid in advance. place several days agortgage on his place several dayss ago. I gave him to coolleet the last 5 mat was anable because he says it shows he interes until April 15, 1923. Would I be able to collect interest under the conditions by going to count? It is written with pen and ink.-A Subscriber, Oakwood, Michigan.

- You say the contract was entered into on Oet. 15, 1918 and required the purchaser to pay $\$ 150,00$ every six monthis theneafter. I don't see how that would make this first pay ment fall due on Oetober 15,1919 computing the time, as you say, from April 15, 1918.
If the contract was dated oct. 15 , 1918, and the first installment was paid on April 15, 1919, aceording to its terms, I am of the opinion the
interest on this colliected, as well as interest could be colifected, as mell as interest on all aetually paid in advance.- Assst. Legal isolitor.

> RUNS INTO COW

When driving home one evering I ran into a cow with my rear. I had good lights, but it was storming, by un cow was not being driven by any one. My car was damaged considerable. Can I collect damage liberty car: The cow had been at time amd in on the road for some She ran in front kinds or weather. for me to stop. This too close about $10=30$ at night This happened do, Michigan. nig . C., Milka--There is
prohibititing owners from in Michigan prohibiting owners from letting their except in those lownshins highwars, it is permitted loy the township. If the by-taws of your towaship do if allow cattle to rum at large do not of the opinion you conild cotlect fram the owner of the uow for damages done your car.-Asst. Tekgal Edator.
SKUNK FIDE TANNING FOR

## robe

through your nease let me know through your next issue how to tan skunk hides for a robe? I am a such. I am alweys ready to read much. I am always ready to read
when it comes.-G. V., Kingsley When
The method recently explained for tanning small fur pelts is all right Flesh the silin:
Faksh the skins caretully, then soak say two hours in the following water; one-hall pance cold, soft half pint salt; one ounce of sulp one ic acid. This will prepare the hide for the tanning liguor. Now take two gallons of cold, soft water; one fourth pound of pulverized axolic ncid; one quart of salt. Put the skins in this and leave them there about two days or until no dense remove the shthe, when tanned then hais them wring them dry, pall and work while the shade and tends to make the hide soft as this hides are usually pretty sheasy yet if the hides when working with them appear harsh and dry grease with unsalted butter.
When makang the first liquor aidd the sulphuric acid last, pouring it in slowly and stiring all the itime. The a
mentio

## TheUPPER ROOM REVELATION

## A SERMON BY REV. DAVID F. WARNER

Read Acts 1:6-14; $2: 1-4$.
TEXT: "But ye shall receive TBXT: "But ye shall receive
power, when the Holy Spirit is come upon you; and yee shall be my witnesses both in Jerusaiem, and in al udea amd Samaria, and unto the Acts $1=8$.
CUNDAY School folks for siz months have been following our
Lord ta the "upper room." But how many entered? How many foind the inner circle with Peter James, John, and the rest?
But interest and curasity have led many Oriental travellers to seek the ocation of the "upper room." Tradition has built there a Christian church. We may not Enow the site accurately; but we "do know the Bible makes the upper room" a place of more than ordinary interest and significance. And Acts deepens our this "csper room" is the found hat this upper roorate Christranity or the Church. Christianity began when John excraimed "Behold, the tamb of God, that taketh away the sin of the world. But the church as spiritually organized and set apart, began in the "upper room" at Pentecost. Here expected until they ed, prayed, and expected untir they tion; the promised power.
This empowering was unto sêva ice; unto witnessing. "And they be"O for a thousan ther to sus my dear Redeemer's praise" But have you put into fait'ifut use the one tongue you have? Do you re nember when you were baptized in he holy Spirit? Dia you feel per with that? But we are not to be satisfled until the uttermost parts are saved. And now, how about you ity-your Judea and Samaria?
Well, how may we know when the "uttermost parts" come within the hovizon of our spiritual vision and within the reach of our hand some times lonesome in a Michigan arocery store. My merchant friend, be ing a Christian, prayed "without ceasing." Hours were spent with his Bible. And, lo: one day there rush ed in on the plane of his vision, the simning, suffering men. He heard the call of God to every man Bu for him it meant to live and labor with a foreign folk. And he did ed as to imelude, sacrifically " Green land's iex mountains and India's coral strands." This has to do with vision: and vision has to do with providedness, and prayer. Grif fith Thomas, "sees farther than a philosopher on his tip-tas,
But, aecording to our text, we are ompowered to witness to the Truth. "What it truth?", The world is ever in no other day has there been such in no other day has there bueen such most folks are straddlers. If truth means a sacrifice of comfort, money, prestige, or pleasure, error is more weicome.
But when Christ said "I am the Truth," He did not refer, in the first intention, to what was written in text beoks, taught in the schools, or worked out mon and do opinious oh Christ meant havin ially and now the truth about the misston and destiny of men, abont this life and the next; even the truth about God.
Now, regarding these things, the War brought a decided awakening Bibles could hardly be made fast enough. The late war may be call ed one of religions. $O \mathrm{Or}$ as vice president Marslail said at the time, in." The morat forces of this war revolved about the character of God Was he a God that had decreed that the masses of men were but chattels
to be minipulated at the will of politieal overlowds? Or was he a God who made man in his image and all men equal and brothers? That pro vided for the healing of the sick, the liverance of the oppressed? This is the revealed Truth that we are call Note the happy abandon in which
this end have I been born, that. I
should bear witness to the truth," should bear witness to the truth, friend). But measured in the thought of our own generation, this man is irresistable as the incarnate truth of God. To he sure, there is yet much extism-and hypocrisy. What is hypoc-atsm-and hypocrisy. What is hypocrisy? the world. It is making life a
fore the stage performance. And every man who is ambitious for his OWN success, has fallen heif to this temptation. ut Jesus was not anxious for personal success nor desirous of a broad flelid. He cared only to be an uninterrupted channel of truth. He knew he possessed the gift of a world redemption, and unparallered power to achieve it. of the personal
stood in crying need of the stood in crying need of the personal
and social salvation that he only, could provide. (And they do yet.) So he must witaess to this truth, though he had to pronounce some of the church leaders of the day as snakes, liars, and murderers; and lose the understanding and sympathy of friends, And were he to make a seeond advent today, can you imagine what he would say to quarligions leaders, and all the enemies of revealed truth?
At Camp McArthur, a regiment was at the depot to entrain for France. A good, but very ordinary man who had helped the soldier boys much, was there. He. asiked the commanding officer if he might pray for the boys, He did so while all was quiet. Then, stepping forward, the officer said, "Men, I have never been a Christian, but want here iance to Jesus Christ as my Lord amd Savior." This mam of just the commoni
garden variety, Lad been in the "up-
per room" with Christ. And true to its demands he became a living witness to truth as he haw experown narrow field
Are you ready to stand my friends, along side of Him, who through living in the midst of error and liypocrisy, even among a set or despicabte liars and murderers, stood calm and reposed upon the im pregnable rock of truth? You wil find power in the "upper room.
"I built my soul an upper room, A place of prayer;
From doubt and care. Serene it rests. And thou, dear Christ
Art always there.
God grant that when I leave this For tasks below
The peace that I have found may My splrit flow,
Till those I meet build upper rooms And thither go."

GRAIN CROPS OF ARGENTINA $\mathrm{H}^{\text {IRST official estimates of } 1922-1}$ 1923 grain production in the Argentine have just been re ceived by the Department or ComHence Robertson and shows a pro duction of $5,281,718$ metric tons of wheat, $1,175,5 \%$ tons of linseed, oats, 193,47 , barley, 130,111 and rye, 64, ural variation in the yields of the of grains is thought to be satisfactof gr
ory.
a lavdiber ambution
$\frac{1}{\text { mate. }}$,
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WHEN WRITING TO ADVERTISERS PLEASE
MENTION MIOHIGAN BUSINESS FARMER

## THE HUNTED WOMAN (Continued from Page 8)

(Continued from Page 8)
hands-why, then you may deal yourself a hand if you like, Donald. It may be a bigger gan, , than One against One."
learned other things this afternoon Johnny. Quade did not stay behind He went with Rann. DeBar and the woman are with them, and two other men. - They went over the Lone Cache Pass, and this minute are hurrying straight for the headwaters of the Parsnip, There are five of
"And we are two," smiled Aldous. "So there is an advantage on their side, isn't. there, Mac? And it
makes the game most eminently makes the game most eminently
fair, doesn't it?",

> "Johnny,
"Johnny, we're good for the five!",
cried old Donald in a low, eager voice. If we start now-bin you have everything ready by morning?
"The outfit's waiting. It's ready now, Johnny,"
"Then we'll leave at dawn. I'll come to you to-night in the coulee, and we'll make our final plans. My brain is a little muddled now, and r've got to clear it, and make myself
presentable before supper presentable before supper. We mast
not let Joanne know. She must suspect nothing-absolutely nothing.'

Nothing," repeated MacDonald as he went to the door
There he paused and, hesitating and said in a low voice. "Johnny, I've been
why the grave were emondering been wondering why there weren't somebody's 'bones there just to give
it the look it should 'a' hau, an'. why it the look it should 'a' han, an' why
the clothes were laid out so nicely the clothes were laid out so nicely,
with the watch an' the ring on top! With that he was gone, and Aldous closed and relocked the door,
He was amazed at his own comHe was amazed at his own com-
posure as he washed himself and proceeded to dress for supper. What had happened had stunned him at few appalling moments. Now he was superbly self-possessed. He He asked himselt questions and answleft no room for doubt in his mind as to what his actions, should be. One fact he accepted as absolute: Joanne belonged to him. She was his wife. He regarded her as that even though Mortimer FitzHugh was alive. In the eyes of both God and man FitzHugh no longer had a
claim upon her. This man, who was claim upon her. This man, who was
known as Culver Rann, was worse than Quade, a scoundrel of the first water, a procurer, a blackmailer, even a murderer-though he had thus far succeeded in evading the tacles of mountain law
Not for an instant did he think of Joanne as Culver Rann's wife. She was his wife. It was merely a technicality of the lay-a technicality little finger-that had risen now between them and happiness. And it Was this that he knew was the mountain in his path, for he was certain that Joanne would not break that last link of bondage. She would know, with Mortimer FitzHugh alive, that the pledge between them in the mony in the room below, meant nothing. Legally, she was no meant to him now than she was nosterday or the day before. And she would leave him, even if it destroyed her heart and soul. He was sure of that. For years she had suffered her heart to be ground out of her
because of the "bit of madness" that because of the "bit of madness" that was in her, because of that earlier tragedy in her life-and her promise, her pledge to her father, her God, and herself. Without arguing a possible change in her because of her love for him, John Aldous accepted told Joanne the truth he would lose her. His determination not to tell her to keep from her the secret of the grave and the fact that Mortimer
FitzHugh was alive, grew him with each breath that he drew. He believed that it was the right thing to do, that it was the honorable and the only thing to do. Now
that the first shock was over, he did not feel that he had lost Joanne, or of losing her. For a moment it ocof losing her. For a moment it oc-
curred to him that he might turn
law upon Culver Rann, and in the same breath he laughed at the absurdity. The law could not help him. He alone could work out his own and Joanne's salvation. And what was to happen must happen very soon-up in the mountains. When it was all over, and he returnHis heart tell Joanne.
His heart beat more quickly as he finished dressing. In a few minutes in spite of what had happened, and what might happen, he was hand Yesterday he had dreamed. To-day was reality-and it was a glo-day reality. Joanne belonged to him. She loved him. She was his wife, and when he went to her it was with the feeing that only a serpent lay in the path of their paradise-a serpent which he would crush with as little compunction as that serpent would have destroyed her. Utterly and remorselessly his mind was made up.
The Blacktons' supper hour was five-thirty, and he was a quarter of an hour late when he tapped at Joanne's door. He felt the warmth of a strange and delightful embarrassment flushing his face as the In her ened, she stood betore him. of colour which the deep tan partly concealed in his own.
"I-I am a little late, am I not, "You" he asked

You are, sir. If you have taken than a woman. I have been waiting fifteen minutes!"
"Oid Donald came to see me," he apologized. "Joanne-" "You mustn't, John!" she expostulated in a whisper. "My face is afire now! You mustn't kiss me again until after supper

If you will promise-just once
A moment later she gasped:
"Five times! John Aldous, I will never believe you again as long as
They went down to the Blackton's and Peggy and Paul, who were busy over some grownig geraniums in the dining-room window, faced about with a forced and incongruous appearance of total oblivion to everything that had happened. It lasted lips quivered. Aldous saw two little dimples at the corners of her mouth fighting to the corners of her mouth fighting to keep themselves out of Blackton could stand it no and grinned broadly.
Peggy!" he laughed. "If you don't you'll explode!
The next moment Peggy and Joanne were in each other's arms and the two men were shaking hands.
"We know just how you feel," Blackton tried to explain. "We fel just like you do, only we had to face wenty people instead of two. And l'll bet you don't feel like swallow ing a mouthful. It had that pecutiar effect on us, didn't it, Peggy?" "And I-I almost choked myself," gurgled Peggy as they took their places at the table. "There really
did seem to be something thicke in my thrcat, Jcanne, dear. I cough ed and coughed and coughed befare all those people until I wanted to die right there! And I'm wondering-, smiled Joanne. "Indeed not, Peggy. "'I'm as hungry as a bear!
And now she did look glorious and self-possessed to Aldous as she sat
opposite him at that small round opposite him at that small round He told her so when the meal was finished, and they were following the Blacktons, into the front room Blackton had evidently been care fully drilled along the is of a certain scheme which Peggy had formed, for in spite of a negative nod from her, which signified that he was to wait a while, he pulled out his watch, and said:
"It isn't at all surprising if you people have forgotten that to-mordo is su a. Peggy and 1 always and if you don't mind shopping, you to care for the house while go to town. We won't be gone we than
A few minutes later, when the led Joanne to a divan, and sat down beside her,
myself, dear," he exclaimed. "I have been wondering how I could have you what is on my mind before tel Man MacDonald again to-night. fith me, Joanne. I hardly know how to me, Joanne. I hardly kno, A moment' uneasiness came into her eyes as she saw how seriously he was speaking. mean, John-there's rore about Quade-and Culver Rann?" "No, no-nothing like that," he laughed, as though amused at the absurdity of her question. "Old Donald tells me they have skipped the country, Joanne. It's not that. It's you I'm thinking of, and what you may think of me a minute from w. Joanne, I've given my word to old Donald. He has lived in my
promise. I've got to keep that promise. Ive got to keep that with him."
She had draw one of his hands into her lap and was fondling it with into her lap and was and fingers. "Of course, you must, John. love old Donald."
"And I must go-soon," he added. "It is only fair to him that you should," she agreed.
"He he is cetermined we shall go in the morning," he finished, keeping his eyes from her.
For a moment Joanne did not answer. Her fingers interweaved with his, her warm little palm stroked the rough back of his hand. Then she said, very softly:
And. Why do you think that will displease me, John, dear? I will be ready!"
"You!
Her eyes were on him, full, and dark, and glowing, and in them were both love and laughter.

## "You dear silly John!" she laugh-

 ed. "Why don't you come right out and tell me to stay at home, instead of -of-'beating 'round the bush'as Peggy Blackton says? Only you don't know what a terrible little person you've got, John. You really don't. So you needn't say any more. We'll start in the morningand I am going with you!In a flash John Aldous saw his whole scheme shaking on its foundation.
"It's impossible-utterly impossible!" he gasped.
"And why utterly?" she asked, bending her head so that her soft have you already forgotten what we have you already forgovern-we told ourselves we would have done if we had lived? We were going adventuring, weren't we? And we are not dead-but alive. And this will be a glorious trip! Why, John, don't you see, don't you understand? It will be out honeymoon trip!
"It will be a long, rough journey," he argued.
With a little laugh, Joanne sprang up and stood before him in a glow of light, tall, and slim, and splendid, and there was a sparkle of beautiful defiance and a little of triumph in her eyes as she looked down on him.
"And it will be dangerous, too? You are going to tell me that?"
She came to him and rumpled up his hair, and turned his face up so that she could look into his eyes.
"Is it worse than fever, and famine, and deep swamps, and crawling jungles?" she asked. "Are you going to encounter worse things than beasts, and poisonous serpents, and
murderous savages-even hunger and thirst, John? For many years we, dared those together-my father and I. Are these great, big, beautiful mountains more treacherous than those Ceylon jungles from which you ran away-even you, John? Are they more terrible to live in than the Great African Desert? Are your bears worse than tigers, your wolves more terrible than lions? And if, through years and years, I faced those things with my father, do you suppose that I my husband?" So sweet and wonderful was the from her lins, that in his joy he forfot the part he was playing, and got the part he was playing, and
drew her close down in his arms, drew her close down in his arms,
and in that moment all that remained of the scheme he had built for
deal to him, Joanne. y owe a great him-for
"I am going, Job I." If we went alone we
able to return very soon."
"I am going."
"And some of the mountains-it is impossible for a woman to climb them!"
"Then I will let you carry me up them, John. You are so strongHe groaned hopelessly.
"Joanne, won't you stay with the Blacktons, to please me?"
"No. I don't care to please you."
Her fingers were stroking his Her fingers were stroking his cheek. "John?

## "John?

"Father taught me to shoot, and as we get better acquainted on our honeymoon trip I'll tell you about some of my hunting aild things, be don't like to shoot wild things, becan shoot. And I want a gun!" can shoot. And a toy-but a real gun," she continued. "A gun like yours. And then, if by any chance we should have trouble with Culver Rann-, She felt him start, and her hands pressed harder against his face. "Now I know," she whispered. " guessed it all along. You told me that Culver Rann and the others were after the gold. They've gone -and their going isn't quite 'skipping the country' as you meant me to understand it, John Aldous! So please let's not argue and more. If we do we mible I'm going. And I will be ready in the morning. And I want a gun. And I want you to be nice to me, and I want it to be our honeymoon-even if it is going to be exciting!"
And with that she put her lips to his, and his last argument was gone Two hours later when he went to the coulee, he was like one who had come out of a strange and disturbing and altogether glorious dream. He had told Joanne and the Blacktons with MacDonald that night, Joanne' with MacDonald that night. Joanne's good-night kiss was still warm on hands still trembled on his face, and the sweet perfume of her hair was in his nostrils. He was drunk with the immeasurable happiness that had come to him, every fibre in him was aquiver with it and yet, possessed of his great joy, he was cons cious of a fear; a fear that was new and growing, and which made him glad when he came at last to the little fire in the coulee.
He did not tell MacDonald the cause of this fear at first. He told the story of Mortimer FitzHugh and Joanne, leaving no part of it unbar ed, until he could see Donold Mac Donald's gaunt hands clenching in the firg darkly through the gloom Then he told what had happened when the Blacktons went to town when the blacktons went to town, despairingly beside the fire, Donald rose, too, and his voice boomed in a sort of ecstasy.
"My Jane would ha' done likewise," he cried in triumph. "Sh would that, Johnny-she would!" "But this is different!" groaned Aldous. "What am I going to do Mac? What can I do? Don't you see how impossible it is! Mac, Mac She isn't my wife-not entirely, not absolutely, not in the last and vital sense of being a wife by law
If she knew the truth, she wouldn' If she knew the truth, she wouldn leave me. For that reason I can' take her. I can't. Think what it would mean!
Old Donald had come close to his side, and at the look in the gray mountaineer's face John Aldous paused. Slowly Donald laid his hands on his shoulders.
"Johnny," he said gently, "Johna man, Johnny?" "Gan, Johnny?"
(Continued in May 26th Issue)


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## Oakland 6




## BUSINESSFARMER <br> SATURDAY, MAY 12, 1923

The rural publishine comp any, Imo CEORGE M. SLOCUM, Presic



AGRICULTURAL OUTLOOK GOOD

WASHINGTON, May 5, 1923.-The general agricultaral outlook now is probably the best it has been in three years says the United States Department of Agriculture in its regular monthly review issued to-day. The domestic market for farm pro ducts is reported to have improved measur ably as a result of increased prosperity in urban communities, but that the prospective foreign demand for American farm products is not as good this year as it was a year ago
"When labor is fufly employed and wages high," the department says, "Farm products find a readier sale and better prices. This is what has helped to ststain the price of hogs this spring, likewise lambs, cattle, dairy products, eggs, and certain veget-

## THE SAME OLD STORY

0course it had to happen! They had been in session so long, and tried to do so much!
But Governor Groesbeck vetoed the gasoline tax bill, (which had passed both houses with enough votes to prove that the legislature kuew what they wanted) and of course, any measure which he would sponsor mast be assassinated and promptly buried by the "bitter-enders."
And that was exactly what did happen in Lansing last Saturday
The House voted down the Smith Automobile Weight Tax Bill by a vote of 56 to 41, and in sores, the Byrum Income Tax and the Meggison ares, the Byrum Income Tax and the Meggisoa
Primary School Fund Bill, because everyone knew that if the House voted down the weight Tax Bill, the Senate would get immediate revenge in refusing the passage of the two bills mentioned.

Now it appears that in order to complete, or even to keep abreast of the highway requirements of the state, it will be necessary for the Governor to call an extra session, and -before long, because the people of Michigan will demand that the expensive road system now completed be maintained, and that some of the uncompleted units in the state trunk lines be filled in.

The Business Farmer is still convinced that the most profitable of public improvements is the building of good roads, and that the maintenance of these roads is important, but we are equally convinced that some method of taxation must be arrived at, which will make those who use the roads pay the greater part of their up Jreep, whether this should come from a gasoline tax, as it does in a great many states, or from an increased weight tax, is in our opinion of lesser importance than that we tolerate no costly procrastination in our good roads program.
Whether we must have a gasoline tax or a weight tax to. make the automobile owner pay the greater part of the good roads tax, the fact remains that the people of Michigan will no permit this vital question to go ananswered, and it is regrettalole that to answer it, the state must now be put to-the expense of an extra leg
session, simply becanse of stabbornness.

## DOCTOR FIRIDAY STYET. OPTIMISTUIC:

PAY by day, in every way, Dr. Friday, President of the Michigan Agricultural College, rend of farmer boys and farm labor to the city
attracted there by the high prices paid in the the end rebound to the improvement of will in tural conditions in Michigan and other states An interview just published quotes Dr. Friday as saying that present conditions "are merely verifying what I have been predicting all along, that the balance will soon be restored between the cost of what a farmer has to buy and the price he will receive for his products. And they indicate, also, that the coming season is to be one of great prosperity for the young men who are willing to remain on the farm and can produce within their own labor resources; granting, of course, that they grow crops that are in demand here in Michigan.'
Probably no man in America enjoys a higher repatation than Dr. Friday as an economist, and after all, an economist is only a prophet of future conditions, based on past experience. Michigan is indeed fortunate to have such a man at the head of its agricultural college, and whether or not the average farmer has in the past believed in watching foreign markets and crop conditions throughout the world, he is doing so now after the disastrous-experience which pitched him headlong into the basement of farm produce prices the past two years.
The encouraging sign is, that agricultural products are showing an increase in export, but this does not mean that the farmer in Michigan should grow any crop which depends on the export market for its sale.
Michigan is rapidly developing as an industrial state, as Dr. Friday pointed out in a recent article which we reprinted completely in The article which we reprinted completely in The
Business Farmer. There is no longer any need Business Farmer. There is no longer any need
for our farmers trying to compete as wheat for our farmers trying to compete as
growers with Argentine and the Dkraine.

There is a market, in Detroit and other in dustrial centers of Mrchigan which are growing at an unprecedented rate, for a great proportion of the agricultaral products of the state. Already a milk shortage in the Detroit area is promised should we have a dry summer
The hopeful thing about all of this is, that the farmers of no state in America, are in better position for making money out of their farming operations in this year 1923, than are the farmers of our own state!

## REFORESTATLON IN MIOHIGAN

$\mathrm{A}^{\mathrm{s}}$Senator James Couzens so ably states on page four of this issue, one of the most of the guarantees ior the future prosperthrough reforestation
Fortunately, the Michigan Legislature, just he fore closing its hectic session, joined hands in unanimously passing the Meggison-Sargant Biil, which provides for a deferred tax on forest which prow
Under
Under the terms of this bill the owner of any timber land, or lands chiefly valuable for the growth of timber, within this state, may apply to the Commissioner of Agriculture to have such property set apart for the growth of timber. If,
after investigation lis application is aproved after investigation his application is approved by the Commissioner of Agriculture the land shall thereafter be taxed at the rate of 5 cents per acre annually.
After a twenty-five year period, the timber would be subject to cutting, under general control of the Commissioner of Agriculture, who would guard against wasteful methods. At this time the owner of the timber wonid be assessed a tax equal to $25 \%$ of the stumpage value of the timber cut, to be paid into the state treasury There is a provision in the bill which would prevent it from working a hardship on any local unit, as it prowides that "The State Administrative Boand may, in its discretion, advance to the township in which any forest preserve lands lie, a sum each year out of the generail fund of lie, a sum each year out of the general fund of
the state, as will compensate them for the amount the state, as will compensate them for the amount of taxes which would be collectible from any such forest preserve lands had they not been registered."
It- is seldom that a legislative body can be made to look so tar ahead as twenty-five years and Michigan has taken a forward step which will place it among the leaders of conservation in the United States

## THE CASE BILL PASSIED

$T^{1 H}$HE Business Farmer is being given some credit at lansing for its last minute appeal In favor of the Case Bill to prevent unlawful discrimination in the purchase of potatoes, and very wisely an amendment was made which makes it include grain and beans. That our neaders made themselves known at Lansing is proven by the ract that this bill passed the thouse
by a vote of 85 to 3 . was intended primurily to protect the soopera-
tive elevators and farmers marketing orgniza-
tions from the unfair competition practicea by the old line dealers. It has been the common practice by a few unscrupulous dealers to temtown whay more than the market price in a trying to a small or cooperative elevator was to pay this hightart. Nuese dealers wime in few localities, because they were paying the farmer much less than the market price in locat ties where ther had no competitio
The only thing that will mate
make this law effec fringe on this law. Thereort cases which inforce or system of mo police effective or make this law effective other than the direct report of the offcers of marketing organizations or their members. This is, in our opinion, one of the most practical and helpful laws passed for the benefit of the farming business in Michigan by the present legislature.

## FAIR CARNIVALS ARE EXPENSIVE

$\mathrm{O}^{v}$UT in Oklahoma the Agricultural College made a survey of that state which showed that 41 County fairs had carnivals as part of their attractions last fall. These carnivals furnish the complete midway, a whole street o attractions on the Michigan Sate Fair midway pany and travel as a unit. These 41 carnivals took $\$ 114,800$ out of the counties in which the fairs were held.
There are no available figures showing the number of these amusements held in Michigan or the amount which they take out of the country, but we would venture the statement that more than this amount was collected by the attractions on the Michigan State Fair Midway alone last year.

We do not hope to see the midway abandoned on our state or county fair grounds for the very on our state or county fair grounds for the very obvious reason that they contribute largely to the support of the fair, and it will take a daring fair management to eliminate this or any other prolit producing attraction.
The responsibility rests with the management of the fairs. Every feature of every show or attraction on the midway should be investigated prior to and continually during the fair by a personal representative of the management.
Too often everything appears all right for the first day or two, but if the crowds are not coming as they should and the fair management has been appeased, the barker passes along the word, "the sky is the limit" and soon the sign hangs on the outside of the tent "standing room only!" We want to see clean, entertaining, and instructive fairs in Michigan this fall, and we make "clean" our first requirement becanse we beleive that it is the feature in which most of uor fair have been lax

## THE SAVING IN STANDARDIZATION

THE automobile manufacturers of America have taught the industrial world a fesson which is so far-reaching in its importance to all users of machinery that it cannot easily e measured.
The automobile manufacturer proved that by bolt or screw thery part down to the smallest bolt or screw the machine could be manufactured at half the oost where standardization was not practice. ing example of what standardization has done. Compare, if you please, what a thousand dollars would buy ten years ago and you will find that your dollar today, while it will purchase only a fraction of what it would in 1913 in clothing shoes, or what-not, will buy much greater value in an automobile or truck.
The International Harvester Company have just made the announcement that for the past two or three years they have been diligently reducing every line of their machinery to the fewest number of pieces and a standardization in parts which makes it possible to secure repairs on the shortest notice.
If the manufactuners of farm machinery gen erally are following the lead of the Harvester Company and bolts, nuts, screws and the hundred and one small parts of farm machinery are be ing made standard and thus interchangeable it will be one of the best contributions ever made
to the farming business.

## THE SUGAR STRIKE

WOMEN'S organizations in each state have begun a buyer's strike on sugar, the same has climbed over the ten cent mark and President Harding has approved the efforts of the agitators to thus redince the conswmption of suga
We have an fiea that the strike will get nicely a big crop to market. At the beet growers have the manufacturers will

## PUBLISHER'S DESK

AMERTGAN HORTIOUNTURE GOM. PANY OUITS

MANY Business Farmer readers have tried to colfect claims agalnst the American Horticulture Company, of Des Maines. We have had a large number of these claims on file, and we are sorry to into bankruptsy and we are placing these claims in the bands of $F, E$ Campoll of Doines, who has been appointed receiver
The American Horticulture Company opened up a spectacular business career a couple of years ago and advertised in an unusual manner with puzzle pietures. They received more business than they could handle, and then the depression period struck them. Before they could adjust their affafrs, they were hopelessly in arrears and altho they struggled along, hoping to be able to spring by erpilys creaters this sate their customers, they had to quit. American Horticulture Company, started another company, known as the Fred Wright Company, which tried to make enough money to pay off the indebtedness of the American Horticulture Company, but had little
It is understood that the liabilities are around $\$ 75,000$ and the assets only a few thousand, so our hope of satistying our readers clatims is the individual elaims are large.

## STOCK TO PAY FOR MSEBE:

Dear Mr. Slocum: Do you know anything about --Coal Mining Company, at, Michigan? An agent or theirs came here with one of our friends who claimed he had
been to the mine and that they were all right, and want us to sign a note for stock in the company. The agent claimed we would never haye to pay a cent out as the company was paying $2 \%$ a month dividends, so my husiana signed a note for 100 Shares, $\$ 1,000$, but 1 did not sign have a joint deed of the place Ne have a loint deed or the place. Now
they claim the agent was a and that he should not have promised the dividends. We have witnesses that he said they were paying dividends, also that we would not have to pay any money out, that the dividends would pay the note and interest. That was the 19th of January. We have not received any shares. Is there any way of getting the notes back, as I think they are a fraud? Win you please investigate? Please let me know by private letter.-Mrs.
P. II have written my reader that she hands of a loeal attorney immediately , because it will be money well finvested to have legal protection from such sharks. What a pity it is that people will swallow such exaggerated statements as the foregoing.
Does it not stand to reason that if a company could pay $2 \%$ per month, or even $1 \%$ per month, that their entire stock fssue woutc be taken up in a few minutes in any money
Many times a legitimate manufacturing institution will have to secure and beca the in busimess speeulation involved they must go to the general publie to raise the funds. Many men have some savings which they can afford to speculate with, wisely or unwisely, but the minute a stock salesman starts making an extravagant claim, he ought to be shown the door, and mighty quickity, too.

## "That man sievierman!"

A couple of years ago the Bustress Farmer began recetving complaints rogarding a man named Silwas adven the Detroil market, who ing it and then refusing to pay for it, through one subterfuge or anoth-
er. Securing no satisfaction we took it up with the Post Offce Department,
local haunts. This will answer one or two of our readers who have recently inquired about "that man Siliverman."

## WARREN MeRAE'S FARM

## AGENEY

A reader advises that she has had a letter from the Chiet of Police, vises that he could find no offce the Warren McRae Agency that MC Rae was making his home a Rae was making his home at a room-
ing house, and that he advised her not to send any money as "they were after the money and probably would not sell the farm." Have any of our readers heard from McRae late1y, or has the Business Farmer made it too hot for him to do business in Michigan?

FROM ONE UNFORIUNATE
Having read in your excellent paper the way in which you have helped your readers, I am writing to see if you can help us. We read Warren McRae's ad and thinking we might dispose of our farm we did not wish to go to the city but the farm is too large for one man to work and it is next to impossible to get help, we wrote to him and he farmers in fhis state who wishe to look at Michigan farms so we sent him $\$ 10$ as a listing fee when we re ceived the communication which will inclose and naturally we hate heard no more from him. We realize now how foolish it was to trust some one we knew nothing about and am sorry your warning came too late for us. i think we have learned so next time we will write you for advice first. Am simply writing to ask if any thing can be done to get us back our ten dollars. Please do not publish our name, we don't wish lible."-S. B., Washtenaw County,

WORKEAS' SERVICE BUREAU, JACKSONVELAE, FLA
Regarding this and other similar companies which advertise to pay a
fixed sum for home addressing, and ther hum for home adaressing, and adviee to tave n, let me repeat my company which reguires to do with a ment in order to secure some sort of employment.

## RESULAS!

Received your card that you had taken up my claim and yesterday ream my check, and a letter which am enelosing. I am very thankful eaders of service, We have been er for many years and think it a nee ssity in every farm home. I again hank you for your trouble, as I am positive I should not have received -Mrs. W. H., Harvard, Mieh

You surely get results when you go after things. I just got your card and by the same mail got check paying baek my money they have preciate what you are doing for your subseribers and surely expect to ways take your most exeellant paper -Mrs. A. J. P., Jones, Mich.

I want to thank you for the prompt settlement made me. They did not hesitate to come to a settlement after receiving your letter. I am glad there is a way to wake them mp. Thanking you again, I remain, A. J. V., Gaylora, Mich.

I wish to thank you again for the quick settlement you secured for me from three dirterent firms, during the past winter, which had owed me W., Fean sum of money. Mrrs. H. M. W., Fennville, Mích.

In regard to my camera, I recelved it after about three weeks delay. As they could not find my own they sent much for your servlees you very Aroca, Mich.

I have today received the enclosed letter from Dr. containing cheek for \$4.65. Thank you very mueh for

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## MONEY TO LOAN

On the 33-Year Government Amortization Plan to desirable borrowers who own good, well-managed farms in ichigan and Ohio, and wish to borrow not over $50 \%$ of the value of their land plus $20 \%$ of the appraised value of the buildings.

No commissions-Low interest rates. No stock investment. Unusually prompt and satisfactory service. If your loan will meet these requirements, write us.
FIRST JOINT STOCK LAND BANK OF CLEVELAND
Guardian Building, Cleveland, Ohio



## What the Neishbors Say

MUCH PESSIMISM-SOME TRUUH M AKING it easier to slide deeper in debt is Jt goin to cure a chronic disease gnawing at the very vitals of our agriculture, the cradle of a free people and the very first and last stand for hungry age yield will right the situation. What is needed is a cure not a deadener.
With agriculture the real giant in a business sense, and no voice in setting the price upon its products, but a never failing cost plus price upon
his every purchase; bled white by marketing tolls is a real complicated disease that will not yield to cocaine treatment from Washington nor even Mr. Coue's suggestions.

With no voice in regulating the price of their products; forced will-
nilly to supply their wants in a home milly to supply their wants in a home market protected by the highest tarthe farm block support for which the farm world received a string of glass beads. The farmers are skinned from heel to head by the very system The selling price of our products, in most cases produced by robbing the soil, contending with frosts,
drowths, cyclones, floods and bugs is drowths, cyclones, floods and bugs is price in the world's competing market under normal conditions, while our protected industries and transupon the home market for its fat picking.

## engine

prosperity for our farm world is in foreign crop failures.

As our farm world must rely upon misfortune abroad for its occas-
ional silver lining, one need not ional silver lining, one need not
wonder why the farm game is losing wonder
its lure.

its lure.
How a tree is to remain vigorous and bear fruit annually while continually starving its roots is just a little beyond my think tank.

Some how or another, the word "square deal" should carry a real meaning-and a jail sentence even
in legislative halls when using it for in legislative h
Being half Irish, I am naturally an optimist-but not on the land lieve there was a little oil or mineral below.
I can not help but believe, unless some Moses appears upon the scene real soon, and this does not mean a
plaster paris farmer, the peasant
stage in America is just around the corner, and for this decaying situaresponsible class of voters is more er, buncoed by the cock-sure farm tection" in the childish belief that all property is distributed down from the top layers of society.
I haven't the least doubt but what this same view point was held sacred by old King Tut's well disciplined field slaves.-John G. Krauth, Presque Isle County.
THE Editor The Business Farmer -Yes, the gasoline tax went ious. It was Groesbeek and Detroit who made inglorious asses of themselves. Two-thirds of the population of Michigan stood for the gas tax but Groesbeck and Detroit bulli ed and bossed till it was defeated. If the weight tax becomes a law, our car stays in the garage till Michigan has a decent form of government; or we can move. We prefer
to move.

Michigan boasts of progression, intelligence and good government. I wish we might see the effect of these
fine qualities somewhere.-G. Wise, Hart, Mich.

A FOOL TARIFF TO FOOL
FARMERS
TURSERYMAN Harr

## N

of Whan Harry S. Cooper,
issue of $M$, says in the last all we need is the scum of Europe to work on our farms and we will all pick our teeth and count our money pick our teeth and count our money. sults of the present fool tariff, for and against the farmer. Hardly ten days ago the experts. of the Farm Bureau Investigation Committee gave us in the Country Gentleman the exact facts.
On account of the tariff it costs the farmers of America a round million dollars a day for excess cost of manufactured goods, over a year "skinned" That means the farmers are skinned over two hundred millio dollars a year on this "hos-trade." farmer say, "Oh! that supports the armer say, "Oh! that supports the high school boy, even with Republican parents, knows a prohibitive tariff, (and eur present one is the highest and most prohibitive every passed) never supports our. government because nearly nothing moves our
way under a prohibitive tariff, which

Other sizes equally low priced. Over 5,000 dealers carry these engines in stock and will save you money on freight.

## Hncle Rubecspinach Saus: Kity

FAIRBANKS, MORSE \& CO.
Manufacturers Chicago


KEEP THE BUSINESS FARMER COMING

I'M AGIN SIR WM. ORPEN'S $\mathbf{W}^{\text {Hen }}$ Heqgenen or moman's
 erabie to think about. Beauty
beauty greal beauty is a thing 'at natur'
gives to a woman jest the same as ghe gives to a fiower or a bird or anything 'at's as natur' makes it. Sir William Orpen, great portrait painter of Paris, sez there's no beautiful women. "In my twenty-five er seen a perfect model nor a really pretty woman." "Ten or fifteen years ago artists had but little trouble to select paintable arms an legs, but now they have to search for weeks, he sez. well legs is all there is prew ol' Bill Orpen more beautiful women 'an he ever dreamed of-not only here in my own little town but in other places in our good ol' state. Beauty does -it's a thing that can exist without 'em.
am aware 'at most all the beauty contests, as shown in the papers durin' the past two or three years, has consisted of arms an' legs-that's
'bout all some young women care to have pictured these days but friends the real beauty of women is When you
their eyes, the movelight in their eyes, the motherhood in their has given, pictured in every line of
every time
be some 1 some just theless, i. erhood, sh velight, the mothul. Maybe they have are beautiegs, I never stop to think of maybe hat something that age can't take off nor paint put on 'at makes women altogether lovely. An' I know wonderful women an' beautiful cause they live as God intended 'em to live; living for the purpose they were created for an' doin' the best they can at it.
Now maybe Bill Orpen knows a lot 'bout beauty but in my foolish judgement he don't know much judges 'em only of women if he judges 'em only by their arms an some of our young women ain't kinder got some of his notions? The way they've been displayin' legs an' arms for two or three years, I'm most decided to think 'at's 'bout all they've got. An' yet I do see many most beautiful an' lovely girls, girls at dress nicely an' becomin'ly an show the real beauty that lies within. They know they have somethin besides arms an' legs to recommend em an' they really are beautiful in very sense of the word.
on of Paris sez, do Orpen of Paris sez, do we women riends? He don't know everything An' let me tell you something: the
real beautiful women of the next few
vears will be the ones 'at keep 'em-
gives the manufacturer's Union, (ten times more expensive to farmers nopoly they can wallow in and "wallow" is the only fit word, for if there is a bigger hog on earth than our protected manufacturer under this Judge says, "May the good Lord have mercy on your soul.
Of course Harding was elected largely by women who though keeping out of the front door of the League of Nations was our only world-salvation, and now he's at the back door; but Hardings campaignmillions came from the protected Mand and today they from Friend Farmer in exchange for political "soft soap." How will you have your "soap," boys?-C. H. Merrifield, Van Burren County

PRESENT CONDITIONS AND A POSSIBLE (?) REMEDV T KNEW there was something that I missed when 1 got home. It ed your card that it was the M. B. F. Sure thing, I must have it. Send it along and send me the bill if I'm in arrears, it will be paid.
It is a long time since I heard from you or you from me, so I'll send you a few thoughts on the signs and conditions of the times and the future outlook, for our people and the peculiar andion-inancially politically, and morally We can not politically, and morally. We can not tions that arise from time to time, we all know, we are in a precarious condition and it doesn't appear to be getting better fast, at least not for the farmers and the producters. There seem to be a lot of would be helpers-but when you come to analize their mode we discover, it is only to get us in deeper. They promYo legislation to help the farmers. You get that from al of the officethe country But when you come to find it out the farmers must pay the bill, in the end, with interest
The question is: 'What or where is the trouble?
In the first place interest on money is too high, and our circulating medium is not based on actual products which is the only actual basic wealth of the country.
Lincoln said "this nation can not 90 exist one half slaves." We are now bonding system, which not only the slaves us but the coming generation for they will have to shoulder and to pay our enormous bonded indebtedness. Now this does not only apply to the farmers, it applies to all our citizens, excepting a few speculators, financiers nd grafters.
Is it possible that the jeople of these United States, the decendants of those men that liberated this land from a foreign yoke, and wrote that wonderful instrument of Independance and afterwards, defended that act by driving from our shores the oppressors who sought to enslave group of unscrupulous grafters and proup of ensteers enslave us and ren? Is it possible that we have so degenerated that no one among us dare to stand up for the right of the people? Are there no Washingtons or Lincolns or any of that libertyloving spirit left in the land.
Is it possible we are all willing to stand by and see the people robbed of the fruits of their labors and products of this wonderful country by a
few speculators and financiers, the majority of whom, do not even spend their time or money here at home? As a they travel abroad, live among royalty in foreign lands. They spend our money with lavish hand in Paris, Rome, London and Monte and Sure, they have their agent posted and their business interests are well looked after and protected. We have been looking back at the monarchial form of government and congratulating ourseives on the fact that we are living under a governmeat by the people and for the people, when in reality we are at the unscrppulous bunch io profs and than any monarch that ever profiteers They employ all manner of neferious They employ all manner of neferious
papers which as a rule, they either own or control and by that they practically introl our elections. Now let us look, I'll give you a few of my thoughts along remedial lines but some of it surely needs repeating, so that our people may get posted on the actual existing conditions. First, let us consider a few facts relating to our commercial and financial business-of the nation. During my 50 years of business experlence $I$ found that interest on money was the slickest and easiest way of getting it. All that is necessary is to get good security and then you can sit right on you haunches and make a fine living and plenty of money, without producing a single thing, except some trouble for the other fellow-for if you are a good money lender and collector your game is to get all you can, and if you shape it is your business to profit by their misfortunes. Now that doesn't only apply to the individual money lender, that is the game of all our big financial concerns. Our financial resources are controled by so very few, that it is entirely within their power to withhold and depress credit. In other words, to make money dear to the people that mus have it to do their business with.
This brings me to a little investigation as to the total indebtedness of his nation.
Our debt on July 1st, 1921, was $\$ 23,427,772,447$, or a per capita of
$\$ 216.75$. Now our interest bearing debt on that date was $\$ 23,738,900$,debt on that date was $\$ 23$,
084 . The annual interest charges 084. The annual interest comarges different states, bonds, and indebtedness which amounts to $\$ 1,167,204$,809. Now, these are our state and national indebtedness and does not include municipalities, such as counties, townships, highways, schools, cities, corporation bonds, etc. Next take into consideration the real estate mortgages, private and individual obligations, which
will amount to many times the Na will amount to many times the Nareferred to. Naturally, we might referred to to wonder where the commence to wonder is going to come from money is gay even the interest, let alone the principle. It must all come out of the producer, in some shape. Now, as near as I have been able to find out by investigations, we have in actual money $\$ 1.78$ for each $\$ 1,000$ of our actual debt. Now, look at that, surely the thing is commencing to look like a crazy-quilt. If we were forclosed and sold out, atour assessed valuation and proceeds pro rated
among the creditors, that is to say, among the creditors, that is to say,
if we took all the money in the land, if we took all the money in the land,
our creditors could only get $\$ 1.78$ our creditors could only get $\$ 1.78$
on every $\$ 1,000$ that we owe. (That is on a single standard measuring our wealth by gold.) Now, with such a small amount of actual money to do such and enormous amount of business, it has become an easy matter for a comparatively few to control the finances of this nation, and practically speaking, the entire civilized world has been enslaved through that system. We have become in bondage to such an extent that we couldn't pay the interest with actual
cash (gold) for three months, and cash (gold) for three months, and
where has this tremendous debt fallen? What class of our people must pay? The answer, of course, is the pay? The answer, of course, is the paying it in money, it is on paper. and fine bookkeeping by the money lenders.
Now you can percieve, the producers have got some tall hustling to do. I presume that everybody that has studied upon this subject have some ideas of a remedy, I know I have and of course it is a radical proposition,
but sooner or later some different but sooner or later some different
system will have to be adopted. We are not going to get out of this mire are not getting deeper in debt. This by getting deeper in debt. This more credit will only pury him deeper. Now, I'll throw out one or two suggestions, which in my humble way of thinking might let us down a little easier and not break all the bones in the carcass, by a sudden drop like Germany got, which before that time a few, years ago was the richest and most prosperous country. I had the pleasure, a few years bethat they were the mightest power on that they were the mightest power on
earth, to travel through that wond-

I didn't get the chance to tell his nibs over there, that I thought he could lick the world, and 1 guess and, of course, "Down went McGinty' but going back to my remedy for our ills-First, get the law upon our statute jooks, a law strong enough to make it a criminal of fence equal to the crime of highway robbery to hereafter charge over $3 \%$ per annum on any kind of indebtedness. Have that law made broad enough so that by no hook or crook anyone could hereafter make conwith.
Now, that surely would be royalty enough for them lord's who have not produced even a fraction of their own wealth. Now, you may say, you wouldn't get money enough to do business with at that rate. To that I will say, establish warehouses and elevators throughout the lenght and breadth of this great country, wherein to store our staple grains and produce. Issue warehouse dertificates not only for the produce but for the warehouse if necessary, and realm and then let the play with the gold on the outside if they want to. Now this is not a new scheme at all, as a matter of fact, it is as old as the Bible. In the time of King Pharoah and Joseph, it was tried out, and afterwards during the time of King Frederick the 7 th of Denmark, along about the year 1840. It was carried out in a
ery successful manner along the very lines ulone stated. It was the beginning of the prosperity of "that weat country. Now the actual basic or, its raw material and its ability to produce the necessities of life.
Now, why should not our wealth be based uyon those things? But as it looks to me, our house is built upon the sand and if we do not look after it and repair the foundation It might be washed away.
Now, you think that I, myself, am in some financial difficulty, but that fited to some extent financially by the existing conditions, but I did not really understand what the final results would be and from my point of view it does not loak bright. Think this over and improve upon it and as Crabtree says, "Let us help one another." Success to your valuable paper.-Chas. Kerr.
KHLL GAME AND POULTRY-KILL ING BIRDS AND ANIMALS

$\xrightarrow{7}$when the season of the year ing game and spent in shootbirds and animals will repay the effort later on. If farmers, trappers and sportsmen would concentrate on a few bad species, the chief natural enemies of useful and game birds, and poultry, would receive such a set-back that the annual saving throughout the country would run
into millions of dollars.
Among predatory birds, the crow
occupies the worst place. The Board of Game Commissioners of Pennsylvania say that he "destroys individbirds' eggs and young poultry than any other bird that ever flapped a wing". The great horned owl is another bird of prey, so voracious and destructive to useful wild life that he should be killed. This species destroys annually large numbers of partridges, pheasants, fur-bearing animals, rabbits, other game and poultry. It is especially an enemy of the quail.
Noxious hawks are another species which take a heavy toll from the farms each year. Two of these, Cooper's hawkich miont sharp-shinned hawk, which might be called a
miniature of Cooper's hawk, are miniature of Cooper's hawk, are ranging nearly everywhere throughout the country and the damage they do is estimated, in the aggregate, to exceed that done by nearly all other birds of prey. Remains of wild birds and poultry were found in nearly every stomach of Cooper's hawk, examined by the Biological Survey. When the stomachs of them contained birds, ranging from quail, mornlarge as the sharp-skinned hawk it large as the sharp-skinned hawk itwarblers and chickadees,
During the next few months, game birds and other beneficial wild birds will be hatching, and great numbers of them can be saved if their natural enemies are checked now.

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## NASH

Four Touring Model


The Nash Four five-passenger touring type is a model pre-eminently fitted for the hard work a farmer requires of his motor car. Every inch of it and every unit is fashioned ruggedly to withstand the wear and tear of continuous driving under load over rough roads. Advanced achievements in automobile engineering have increased the vigorous volume of power and at the same time heightened its flexibility, smoothness and economy.

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Prices range from $\$ 915$ to $\$ 2190$, f. o. b. factory
The Nash Motors Company, Kenoshà, Wisconsin

THE STORY OF OUR NATIONAI,
HYME

I$t$ was a gloomy day in February 1832, that Dr. Samuel F. Smith, n book of songs, came across the English air "God Cave the King" He liked the tune.

HaIf an hour later he produced the words of the national hymn of the United States "America," or, as
some called it, "My County" Tis of Thee," which he fitted to the melody of "God Save the King."
1808, and was a theological Boston, It was in was a theological student. Park Street Church town, in the old position was church, that his composist time of July, 1832 .
The words of the great song were written on a scrap of paper that the composer picked up from the table near which he was sitting when he are subugnt to write them. They when he first jotted them down.
Never was "America" recognized generally as a song that greatly inspired patriotism until the opening has been accent Since that time it has been accepted by the world as one the greatest of national anDr.

87 years.

## ANSWER TO PUZZLE IN LAST-

 IssueOn man was a broker, another a baker, the third an engineer, and the fourth a grocer.

## OUR GIRLS AND BOYS

Dear Uncle Ned-Maybe you don't think I was surprised last Friday found the letter from you, saying I had won the prize. I could hardly belleve it for I had always though it was hard to win a prize. And, say Uncle, you must have known making. I like the scissors fine and I am sure I will make good use of them. I will close thanking you of the scissors. So, good-bye, from your I am pleased to know that th prize was appropriate. Must be some little bird told me what you wanted, eh?

Dear Uncle Ned-I am writing this letter to let you know i would ike to join your merry circle, "The ng the M. B. F. magazine after my work is done. i zm very interested in the continued story, "The Hunted Woman," and can hardly wait for the next issue of the magazine to come. I live 2 miles west from the village of Temperance. Our house stands on a hill. Near the house is an oad is a forest We. Across the road is a forest. We gather pussy
willows there. I live with my mothor and older sister, Mary. I also er and older sister, Mary. I also called Clara and the other we nicknamed "Snowball." There are five of us children but one is married and lives in Toledo, Ohio. We have two horses, one is called Patty and the other Jim. We also have 3 cows and a heifer. The cows we named Bes sie, Jessie and Katie. The heifer's name is Peggy Jane. My mother and my older sister and I do the summer while my dad winter and summer while my dad works in team of horses and do the work a man is supposed to do, but it is better to be industrious and know how to work than to be lazy. Don't you
think so Uncle Ned? I will describe myself and end this letter to you for it is getting too long. I am 16 years old, I was born October 17, 1906 , am hair, and grayish blue eyes. My hair is bobbed. Stella Vollet Nowa R. 2, Box 106 , Temperance, Mich. to handle horses and lor a woman man is supposed to do but is you say, it is best to be industrious.

Dear Uncle Ned and Cousins-
May I enjoy your merry may five feet three inches tall, am inve feet three inches tall, and
seventeen years old. I am very much interested in the letters the hear from some of them. I would surely enswer their letters.

## 0. Can in then

tion of myself. I have auburn "bobbed" hair, and blue eyes. We have a radio. I think this invention a worderful thing. Don't you? Ours has a loud speaker. Well I must close now, hoping I hear from some of you very soon. With love to
Uncle Ned and Cousins, Ruth Bower, North Branch, Michigan. -Yes a radio is wonderful. In one evening you can hear talking or south, places hundreds of and apart, while you sit in your miles home. I hope some day that every farmer in Michigan can afford one.

Dear Uncle Ned-I wrote about 2 weeks ago and I have received 12 letters giving the answer to that riddie, but one was wrong and her name is Wilma McTaggart. One girl called up on the telephone, her name was Dorotny Casey, if I answ12, but I hope you will print thite cause I cannot answer all this beletters I received and I am of the answer them all in one and I want you to publish, Unele Ned. The answer to that riddle I asked is "a candle." I will write a story about a trip to Detroit.
When we left Elkton, it was a nice cunshiny day, but when we got hali way between Elkton and Detroit it started to rain real hard, and I saw was on fire on account of being
struck by lightning. When we were going to get off the street car we told the conductor where to leave us off and I guess he misunderstood us because after he left us off the street car we had to walk 5 blocks up to was their we went over to Bell Isle on a ferry boat and saw many nimals such as and saw many trich, monkey, and many others. We came back in a bus and when I got ome mamma told me to go down o the store and get a bar of soap and some bananas and she gave me a so $I$ took the money and went ed and they could not understand what I meant when I said "I want a bar of soap and the rest of my money in bananas," So they gave me the soap and 50c worth of bananas and gave me 50c back. When I got home that time, mamma told me to go back and get the rest of my bananas, so I went and got them and When I got home I found out I had $\$ 1$ worth of bananas and the soap it was. awful we started to Detroit when we got back to wlkton it wat cold weather and my uncle was there to meet us with coats for us all because we did not take any and we went to his place for supper and he drove us home in the car after supper. I made a mistake in the letters which I wrote to some of the girls by saying we had to walk one block
when we had to walk five. Say,

Uncle Ned, wiH you write your ad dress at the top of the Children's
Hour, because some of the girls asked me it and I ame writing this letter to the M. B. F. I have 4 sisters and Gladys, Hene, Hattie names are: Hazel Baker, Elkton, Mich.
-1 am glad to print your letter, not just so the cousins can read the is interesting. My name is just Uncle Ned Michigan aduress Farmer, Mt CTemens Mich Busess letter with that on will come to my immediate attention. Tell your friends that I shall be pleased to

Dear Uncle Ned-This is my first time writing to the Children's Hour. likes it very much I like to read the letters and so I thought I would write, too. I live on a small farm just a short distance from town and I go to town school and am in the sixth grade. Our room had 100 per cent joined the Audubon CIub and expect to study a book called "Bird Study. We also have studied the story entitled The Legend of Sleepy room went to and saw the story in pictur was very interesting. Here are some riddles: Why does a man wean a large wateh and a woman a small one? How does water get into water melon? Why is a woman and the sole of a shoe alike? What the largest word in the dictionary? If any of the ousins guess these riddles please send the answer to the Children's Hour. As my letter is getting long I will close hoping to hear from some of the nieces and St. Louis, Michigan Rourne Irvin I know you will enjoy "Bird Study" and I'll bet you found "The teresting eresting. never seen the moving picture of it will go the first opportunity I have.

Dear Uncle Ned-I have been a silent reader of the Children's Hour for sometime and I thought you would like to hear. from another of your nieces. Would you? I will describe myself. I am a girl 12 years old and am in the 6 th grade at school a d have brown eyes, dark 98 acre farm. I have 4 brothers and 2 sisters. I have 1 mile and a haif to go to school. I think the best departme it in the Business Farmer is the Farm Home Department and the best department for a man is "Poultry for Profit." Well I will have to close now and leave would like to cousins to write. I wourdine to get a letter frome letters consin answer all letters I recefve. My birthday is say good-bye now Uncle Ne wi cousins. Thelma Crosby, Edenville, Mich. Box 77, from you, Thelma Came again.

Dear Uncle Ned: I have never written to you before, but have read the Children's Hour and enjoy it very much. My father takes the Business Farmer and likes it very in the sixth a girl 13 years old, am about one-half mile from school. I live on an 80 -acre farm. I have one sister, her name is Mary. She is 22 years old. I also have one brother. His name is Walter and he is 25 years old. We have 2 mules, 1 horse, pets I have 2 cats. 65 chickens. For pets have 2 eats. Their names are ing a little long oo will close with riddle. Would like to have some of the cousina write to me. Use me well and I am everybody? Seratch my back and I am nobody? Answer: A looking glass, Your niece,
Ernestine Frick, Coleman, Mich.,
R. R. 4, Box 46 .

Dear Uncle Ned:- I noticed in the Children's Hour that you are going to give prizes to the one that found the most interesting article
in this issue. I thought mine would in this issue. I thought mine would
be Market Plashes, becauses the be Market Plashes, becauses the
farmers all want to see the price of
their crops and see if they are high

## FARMMEGHANICS

PROPER STZE PULLEEY
GIMPLE rule given for figuring diameter and speed needed for ember opan
The use of the proper-sized pulleys has a lot to do with the efficient operation of belt-driven machinery, as difficult as some people think.
In every case one knows, or can find out, two facts about one of the pulleys-its diameter and its speed. One also knows at least one fact about the other pulley-el large it actually is.
An example shows how to figure explanation.

Take an oine rue entur engine ruaning at 600 revolutions a minute. The engine Yon 900 revolutions a minute What size pulley shonld you get? You know the engine puliey's speed is 600 revolutions and its diameter is 12 inches. You know but one thing about the grinder pulley, its speed, which is 900 . How can you find the diameter?
Multiply together -the two things that you know about one pulley and divide by what you know about the other pulley
In the above example, 600 multiplied by 12 makes 7,200 . Dividing eight-finch pulley is needed on the feed grinder.
The result will not always come in certain sizes it is necessary to select the next larger or smaller pulley. When computing the diameter of a driven puiley, select the next size smaller. When computing the diameter of a driver pulley, select the next size larger.-Farm, Stock -
CHANGING TIMES by John t. babtlett
BETTER FARM WANT ADS

IHAVE noticed this: When individual farmers advertise nowadays, their advertising is usually
nuch better than average farm advertising of only a few years back. Take dally and weekly newspaper want ads as an illustration.
The want ads are convenient and efficient business aids, as tarmers have realized for years. But there are good ways and poor ways of writing want ads. Only a few years ago, it was a most uncommon thing to find a farm want ad written with real advertising skill. The formula Solfe," and then what you offer, in the briefest possible words, For
Sale-Cow," "For Sale-Alfalfa hay," and similar want ads were common
Contrast these with recent want ads noted by the writer.
A farmer whose want ad on apples informs the reader that he has eight seasonable varieties, at stated prices. Moreover, that "every buyer this week receives a free pumpkin.
A farmer"s "cow for sale" want ad Which states the breed, age, weight, en, and offers to sell on trial.
A farmer's want ad offering setting eggs for sale which informs us this farmer sold 300 settings to "satisfied customers" the year before; that his flock last year earned $\$ 2.50$ per head; that $9 \theta$ per cent fertllity is guaranteed.
These are good want ads. They say something which makes the
reader, if he is remotely in the reader, if he is remotely in the market, feel like investigating furth er. They emphasize that though a
want ad seems a little thing, plenty Want ad seems a little thing, plenty it, and ample reward obtained a fruit district selling fruit on the a fruit district selling fruit on the
trees to city people, uses several keen want ad selling plans. One orchardist advertises he will call for customers in his flivver, and take the day, home. Another man features the size of his trees-how easily picked Still another ar-
ranges with a downtown store to exhibit his fruit, and urges readers to and plek. All these advertisers
state price in their want ads-some-

If the prive is reasonable, and con-

## POULIRY COLOR SCHEMES

AWWAYS, it seems there is oppor tunity for the individual, adapting methods to his special conditions, to gain desirable results by way Ponltry color schemes ont way. Poultry color schemes ob-rict-the single 7arge flock, ranging through orchards, showing buff and white, or white, black and brown hens-are an interesting illustration of this. There is a reason for these flocks of these different varieties, and it is intimately associated with profits.
Big poultry flocks usually are of one color. There is a reason-it pays the poultryman best to handle one breed alone. At Tulare a single eties. Buff and white may be Buff eties, Buff and white may be Buff
Leghorns and White Leghorns. White, black and brown will be White Leghorns, Anconas, and Brown Leghorns.

Tulare adopts the color schemes as part of a plan for increasing the total agricultural production of a single man. One farmer is told about who handles 70 acres of alfalfa , milks four cows, and attends to 1,000 hens. He is able to do this because of labor-saving methods with the poultry. The chickens roam over many acres. Mammoth filled only once in several days. The
chicks are bought of a large hatch-
ery, saving the farmer a great deal
of labor, of labor,
One year one color will be bought, the next year another color. The most productive hens life are the most procuctive, so tulare ships three years. If at the end of two years, then two colors are kept: if at three years, then three colors. The color identification of age is a bis time-saver over the leg-band meth-od-that is why diferent colors ar kept. When the time comes to cull there is no laborous examination of leg-bands. One glance at the feathers tells.
It is a mistake to believe the perlod of method origination is past in doing things are establishing the selves right along and someone ways profits.

HOW SHALL FERTHIEER BE PPLALD POTATOES

## (Continued from Page 4)

ways of applying fertilizer for potatoes. The dirst of these is by means of a fertilizer attachment on the been carefully designed by most the manufacturers digned by most of sult of considerable study Proper ly adjusted, they mix the fertilizer with the soil so that it does not come The contact with the seed pieces. ly placed ahead of the seed hopper
in such a manner as to apply the lertilizer before the seed is planted Generally adjustment can be made to either put the fertilizer below the the wila son ectwen, or to plan the seed it cieriments thed soil. been conducted on the exact method on conducted on the exact method ing it below the seed. The second method of applying fertilizer in the row is by means of a separate fertilizer distributor before the crop is planted. This method seems to be growing in favor, particularly where large quantities of fertilizer are us ed. A two-row distributor opens the furrows for two rows, applies the fertilizer in about any method desired in the furrow, and mizes the soil and fertilizer together. The rear coverts leave a mark to follow in planting. From the standpoint o is excellent but it has the disadvantage of involving a separate opera tion.
There is a common impression that fertilizer in the row causes bunching of the roots. Careful investigations carried on by both the Wisconsin and Míchigan Experiment Stations on corn indicate that hill application of fertilizer on corn does While the results of tho the roots, tions
 that the thie is Bround to believe that the object to fortilization is not so important as it once seemed.

# McCormick-Deering Primrose <br> BALL-BEARING Cream Separators 



2!At Custer, Michigan recently the dealer held a Primrose Service $D$ ay and hadafactory expert on handito give whatever help give whatever help 200 Primroses sold locally in the past ten years, only 11 were brought in needing re pairs or adjustment. Of this number the biggest repair bill was 89 cents. Such a record speaks for itself.

PRIMROSE Cream Separators have been making a good name for themselves in all the dairying sections of the country. Their good work is usually taken for granted, but if you will turn in wherever you see the sign "Primrose Cream Separator Used on This Farm," and make inquiries, you will find liberal praise for the Primrose. Everywhere is proof of close skimming, long wear, and easy operation. Read this evidence:

Mr. C. W. Coon,
Colesburg, Ia., Feb. 26, 1923. McCormick-Deering Dealer, Colesburg, Ia.
Dear Sir:-You will no doubt be interested in knowing about the Primrose Cream Separator which you sold me 5 years ago and is today giving such splendid satisfaction.
I just returned from the Colesburg creamery and was told that my cream test was the highest in a year's average over the 300 other patrons bringing their cream to this station. The cream test averaged $44 \%$ during the year 1922 which is $3 \%$ higher than the next highest average test.
At the same time our skimmilk test was less than 1-100 of $1 \%$, so we were sure that the Primrose was getting all the cream.
The repair expense on this Primrose separator has been only \$1.50. Anybody looking for a close-skimming, economical cream separator does well to buy a Primrose-for it's a machine that can't be beat. Yours very truly, [Signed] J. W. Platt 8 Son.

THAT is the sort of work the Primrose has been doing for farmers. See the note at left also. Now, with ball bearings and other improvements, the McCormickDeering Primrose Cream Separator is all the more qualified to save cream and money and time for new owners. Made in 5 sizes: hand and power operated. The McCor-mick-Deering dealer will show you this ball-bearing machine.


International Harvester Company
606 So. Michigan Ave.
of America
Chicago, III

MY shall make the world anew; Money minted in the sky Shall the earth's new garmernts buy. May shall make the orchards bloom; And the blossoms' fine perfume Shall set all the honey-bees Murmuring among the trees. May shall make the buds appear Mike a jewel, crystal clear
Whid the leaves upon the robin lilts his hymm
May shall make the wild flowers tell May shall make the wild flowers tell
Where the shining snowfakes fell:
 heart,
By some secret, magic art,
Were transmuted to a flower
In the sunlight and the shower
Is there such another, pray, Wonder-making month as May
-Frank Dempster Sherman
THE PRISONER AND THE

TTHERE is a beautiful story in French of a prisoner who be-
came attached to a flower. was put in prison by Napoleon because he was supposed to be an
enemy of the government. Walking one day in the yard adjoining his cell, he saw a plant pushing up he tween the stones. How it came there he could not tell. Perhaps someone carelessly dropped the seed
or perhaps it was blown over the or perhaps it was blown over the
wall by the wind. Charney (for hat was his name) felt a great in terest in the little plant, and spent much time looking at it. He soon saw some buds. He watched them longed to see them open. And when the flowers came at last, he was fill ed with joy. They were beautiful and with a delightful fragrance.
He guarded the plant with great care from all harm, and one day shielded it from a hail-storm by
bending over it as long as the storm bending over it as long as the storm
lasted. It was something more than a pleasure and comfort to him, for
it taught him some things that he had never learned before-although he was a very wise man. As he plant-it taught him more than he of the earth, it taught the wise men was a God. He felt that no one but God could make that flower. The plant proved of great service
to him, for the Empress Josephine hearing of his care and love for the solitary little plant in the prison yard, and being a great lover of flowers herself, interested herself in his to grant him his freedom.
And when Charney left the prison he took the plant with him, for he panion of his prison life, that taught him such lessons of wisdom.

## THE GARDEN LETTERS

## First Prize

I WANT to tell you something I belong to that class that ar renters and it is necessary to move other things to think of besides set ting out shrubbery and building fences to keep out the chickens, and tenants often say, "Well, who knows whether I will be here another year
so if the pigs rut up the front yard and the horses and cows eat off the shrubbery and flowers, all well and good. like
flowers and it things and do enjoy penny to keep the pigs and the cows and horses in the pasture. I want flowers for my tables and I want my
children to grow up to enjoy nature and be happy and how else can this be taught better than working with lean surroundings, and flowers
Now for our campaign. We thormuch shade in front that our flowers are in the back part of the yard. On the east side of the house about two feet from the foundation,
we will spade up along the house to put in our dahliais, a few gladilious and later set in asters. We will also do the same on the west side.
On the West side is a On the West side is a porch and w We build morning glories here. We build a trellis of several feet to hide the toilet and here plant climbing nasturtiuns, then we have We have blossoms till frost, and all hardy enough that the chickens
won't bother much after they get a


## The Farm Home <br> 1 Department for the Wome

Edited by MRS. ANNIE TAYLOR



## Third Prize

start, until then we cover with
brush. We also have a big vegebrut. We also have a big vege of the garden weed always buy most seed, but this year all we will be out is a few nails and a package of is a few nails and a package
climbing nasturtiuns.-Mrs. M.

## Second Prize

MSit everyone loves to see a beautiful lawn in the summer which can show the more beautifu and artistic landscape work than in the country

The first thing to do is to rake your lawn thoroughly and free it of the small branches and other things which might have blown there dur-
ing the winter, and if you are a lover of flowers, the following suggestions might add a wonderful appearance to your home
Make a round flower bed in the middle of the lawn of Canna flowers middle sized stones. For a hand some and showy display they are un rivaled. And if you do not happen to have permanent hedges, for a
border around your lawn, buy a border around your lawn, buy a
small package of Four-o'clocks, they re a handsome plant, grow very ull growth they are about care of. At high, covered all summer with hund reds of bright colored, showy, sweet scented flowers.
Or, if you do not care for these, you might buy a small package of Kochra or Summer Cypress known by either name. This annual plant
grows rapidly, at full growth two eet high. The leaves, very slender, of light pea green, until fall, and plants changing to blood red, either ary borders. And for a
the house, I suggest, sweet peas, pansys, a flower of the smaller type, and if you have rose bushes, don't forget to trim them this spring, also the shade trees if any and don't ne glect to keep your lawn cut this sum-
The next thing is how we are go ing to improve our vegetable gard have a small garden near the should separately from the one in the fields. I sugg astors around the garden. This looks very beautiful, especially when there is green onions, lettuce, beets, carrots, etc., vegetables of the small-
er type, and don't forget to keep er type, and don't forget to keep
those horid weeds out of sight. You not only beautify your garden, but also your home, having a vase of astors on your parlor table. At th most, these flower seeds would no with a little labor, your home can b wonderfully improved. - Florence Hondorf, R1, East Lansing, Mich.

> GET YOUR FAVORITE RECIPES AND HOME REMEDIES READY HOR Mr. Slocum has promised that if I secure enough, home-testFarmer will publish them in book form exclusively for our readers. I cannot tell you all the particulars in this issue, but I do know that, we are going to give some recognition to the sender fo each recipe published so I want you to get together your very best cooking, baking or canning recipes and your home remedy prescrip. tions. Just the ones that have been passed along in your family or y'll tell you more about this plan in getting your very best recipes ready for me MRS. ANNIE TAYLOR. getting your very best recipes ready for me Joyfuily,

## HHE FARM-WIFE MAKING EXTRA MONEY <br> THE woman on the farm who feels family and household from her has every right to try and increase the family income. There are a great many ways that this can be ac complished. <br> ters telling received a great many leting. This is a very gooding way and a pleasant one <br> For the women folks that live near a town of any size at all, the raising of chickens and selling the oggs, and making good fresh butter, has always been a safe way to make money. In our town there are quite

IWONDER if any of our readers seed to beautify their Four-o'clock spaded a strip about 3 feet wide lose to the house at the front and long one side and planted the seed as soon as ground was warm, also put a row at the side of the lawn near the drive-way, and stretched a started this keeps people from well ing on front lawn It does not deem very long until we have a mass of beautiful blossoms which open every day about four o'clock and bloom until about noon the following day. These varicolored flowers will continue to bloom after most others have died, and frost often finds them still giving pleasure to all who love flowers. This seed can be had from The seed firm and costs very little. The plants are hardy and if too Phare Davidson, R2, Fenton, Mich.

## HOW TO MAKE STAIR RUG

Igood stair carpet that has been in and is not worn out yet. She cut burlap as wid
wanted the carpet to be, when it she hemmed on the sides, then with a big hook, pull rags through the meshes. Cut the rags about two inches lon and one half inch wide. Pull one end through half its length, then miss two threads of bürlap and pul the other end of the rag through so they will be of equal length on the top side. Have the rags not over gether they are the better it to wear. Do not trim the top. My sister used sacks that had been cov ers for sugar sacks. She used hit or miss rags. If one wanted to make it more fancy one could run a white thread along the side about three inches wide the length of the arpet and use one color for that It takes a lot of rags to make it. -
M. S.
number of women, who bring in fresh things from their gardens and they keep supplied from week to week. Just think of the amount of rhubarb that is starting up right now and when the flower season It is surprising how much money can be obtained this way.
I would like very much to receive any letters teling how some of our women folks that live away from the to lars. If you have an idea pass it on
and help others with the good sugand help others with the good sugoffice from Illinois and I thot it so fine that I am giving it to you.


## Mothers Problems

## PERSISTENCY PAYS

PRSISTENCY pays-in bringing up children as well as in any-
thing else. Many a mother has started her baby out right in life by studying every available authority her child which would nothing for er the head of "scientific care und feeding." She has brought her baby safely through those all her portant first weeks of his life; she has seen him safely through his first summer, and breathed a sigh of relief when the first set of teeth has
been entirely cut. And then-oh been entirely cut. And then-oh,
how many times it happens!-she how many times it happens!- she
seems to think he has got past the seems to think, he has got past the
period when care must be taken with period when care must be taken with
him. She grows careless food he eats, about the condition of his stomach and bowels, about his hours of sleep and the amount of ex citement to which he is "treated. The child now, she thinks, is, in a
measure, big enough to take care of himself!
But no child is big enough, either at four or five or six, to take care of himself, and decide what he should eat, when he should go to
bed, and how many nights he shall be up late. To have as he shall school-age children as as healthy babies, there is but one rule to fa low, and that is, "keep everlastingly at it!" Don't grow lax in the care of the older ones! Train them in right eating habits so that they may not become one of that vast army of undernourished children that fill our public schools! Insist upon the not be shattered by that nerves may Throw windows wide at night that lungs may be filled with night that ing, health-keeping oxygen while the children sleep.
Even though your children rank high in physical examinations, even though you know they are exceptionto maintain that fine standard of health. Keep at it, at it, at it! Your duty is not done when you
have seen your children safely
through babyhood, nor is when they are safely launched in childhood. Your goal is, or should be, strong, healthy, vigorous meI
and women. Persistency alone will
fulfil that ambition. Persistency fulfil that ambition. $P$
pays!-Margaret Bartlett.


## Personal Column

Little Qirl in Trouble- Your case is truly a the best of it by smoothing out the rood with
tour own loving kindness. The law is that yout
yont
 old clothes o not mear much for unhanpiness,
because we all have sometime or other had dress made over from an older sister or aunts,
so littlo reader to not feel badly about the made
 girls your own age and try associating with them.
invite them to your home
the hath belp and companionship of some goo need is borly woman and I hope you will find her.
again.
 folks and cheat them out of their childhood. It
is a big problem to kow how and when to seold a girl or boy of tender years, especially be-
tween the ages of twelv and eilhhteen. Their
minds are develloping and lotsi of attentions to guide them for their
future life The girl of twelve or fourteen who

## Recuest -1 should like to hear from any reader



Making Blankets Over-Use your thin outing If double blankets are used, thin at foot and fold
so thin part comes in center. - Mrs. G . W. Briar Rose The poem "Briar Rose" was sent
Mrs. M ., and she wants to thank the subsoriber who sent it in and hopes to return the

## Sleeveress sweaters-I shoula like- to receive

 Canning Horseradish - I carefuly clean ahauantiy of horseradish roots and grind them very
 can futl of good vinegar, This will in a dark place.-F. A. B.
if kept in

Absent-Why did he leave me,
Could I put forth my arm and stay him-
I would not for its God's deeree,
Man must work out his own destins
If I corld but aid him now.
My borrow would be bess.
ril let go. God can have him happiness more, Thoughts are mighty. Truth works in Unity,
Vibrating throush ethereal space, In one grand symphony.
Prophets, Sears, Illuminati,
Voiced this
Voied this long before,
Many in body, but One in mind,
Preent forever more
Present forever more.
This poem was sent in by a reader of M. B. B. F. - leter asking for recipe for canned meats canned sausage meat Here is a recipe a subseriber sent in and says
it has always proved suceessful. 1 have kept saul sages canned proved successful. Thave kept savi-
season meat to taste
until Fall. Grind and



 it does not burn. Fry until done and not to
broun It it hen reay to put into cons the
are read, of cours. Cans shond be packed
with sansasag up to the shoulder. Pour the
 the trying pan with boiling water to get thine
brown liadid. When this ooilis fill the can halt
full, then flil remainder of can with hot grease



 water while canning and can all sausage ho
Sliced meat can be canned in the same was.
 same. -M
Michigan.
Dear Mre. Taylot-We wave had sickress all
winter and are very much in need of clothing.

 Some time ago 1 noticed a reauest for a method
of removing rust stains. The lady was told to to use lemon fuice and sait and place in the sun.
I have found that it is much easier and auicker
to place the spot over the

 semo wan and then woshed in the nurual way to
remove the color in the ink or they may be.
washed frrst to remove the color, then the yellow
 Will some reader tell me how to mend broken
 artice. Also wish to ask if any of the readere
have hat oepprience in skinping rabbits or other
animals to the food and fur companies in New
New Yark Oity and Kansan oitr, Mo., who on ofer too
Suy all you raise if you buy stock of them. Mrs. -Can any reader answer these questions?
The article written by Margaret Bartiett was
very interesting to me. Only one thing could
have made it more perfect hid the have made it more perfect, had the mother ex ex
plained to the roughter, she was sorry the was
even momentarily angry, as the daughter was even momentarily angry, as the daughter was
suffering for a mothers mistake.
I have two daughters woman grown and we are just pals together. There has been no mise



 are, thas we he have hapy times together.
So much happiness is in store tor us if we are not oblivious of it
you mound mors that think your heart is breaking,
yest and father too, go within yourselves and find that slorions calm, that serenits of peace
that is ever there, and see only the wonderful ured it will come forth and love you This I RECIPES
 ning. Do not attempt to can Hish that has been
dead more than a few hours, for it deteriorates C"To prepare fish, seale or skin, remove head,
fins and entrails. They will scale more easily if dipped for a moment into boiling water. If they are large, remore back bone. Soak fish in brine
made of 2 tablespoons salt to 1 cuart water,
 the blod. Drain, out into lenths or piecos
dosirabe. for porking and serving Pack
jars, , add hot brine made of 1 the tablespoons of of
 ressure, seal. Canned fish may be served boilied
 wrous. The anovediterections man be used
varieties of dish."- Mich. Agri. College.

RHUBARB CONSERVE
Many people have more
than they peope have more rhabarb in the up in patect
souce for immediate consumption. Why not convert this immoe conRhubarb and Prune conserve
One cuart rhubarb cut in small pieces
One cup prune pulp.
Three oups sugar.
One lemon, juice and grated rind.
Ono-half cup English walnuts, chopped. Cook Ono-haif cup English walnuts, chopped. Cookk
the rharb, the prime pulp thd the sugar until
the mixture is thicke. Add the tenon juice the mixture is thick. Add the lemon juice and
rina and the nuts. Cook slowly until the conerre has a rich, red color.
Note- One cup chopped raisins may be added,
Rhubarb and Pineapple Marmalade.
Two pounds sugar. and rind grated,
 clear. Turn into glases and seal-
nomics, Oolorado Agricultural College.
Mix and shubars shortank Mix and sift together two cups of flour, four
teaspoons of baking powder, ono hanif teaspoon of sait, and two-tablespons of sugar. Raub in one-
third cup of shortening and add one egg and
 enougk muk to make a very soit doumh spread
the dough erony it two smal grased lyer cake
pans and bake in a hot oven- 400 degrees-for pans and bake in a hot oven- 400 degrees for
ten minutes. Remove from pans, cool slighty. Son read stewed rumbarb very thick betwen and on
top of the layers and serve with hard sauce, cus tard sauce or whipped creami-

 choped ring and inside whitio eeell Cook niowiy
until tonder and pour into a jelly bas to drip.
 and . Alow one pound of sugar to each pint of
juice. Heat to boining point and boin frve mintues.
Add sugar and boil $u$ until the mixture jelies


## -if you are well bred!

In public-only in crossing the stfeet the b The man always walks on the out
walking with two girls or more girls,
slight smile,
When in to


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 Jo'sert felion isioh, Fowier, Michigan.

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## JERSEYS

FINANCIAL KING BULLS Buy a Financin SERVICEABLE AGE





BROWN SWISS
FOR, SALE-VEL VERDE BROWN swiss
Cattle, reesisteret Buit, cows and calves, Write
RED POLLEED
RED POLLED CATTLE And heifers for sale


\section*{First Pure Bred Auction Sale, | Thumday |
| :---: |
| May 24 |}

Rain or Shine-Sale begins 9:30. Andy Adams, Auctioneer Regishered Holstein Cattle -15 bulls with 7 and 365 day record back-
ing. Five of the bulls are sired by Sir Pietertje Armsby Mercedes 40 th and six by Charleviox Marbury.
19 Females- 15 of them bred to the best Holstein bulls in the state
Four onen. 20 Register
20 Registered Duroc-Jersey Hogs- -17 bred sows- 6 bred to TOPMAST
SENSATION- 3 young serviceable boars Belgian Horses-1 pire bre

LOEB FARMS, Charlevoix, Mich.

## DAIRY and LIVESTOCK

SPRINGTIME IS PIGTIME
CPRINGTIME is pigtime on most farms. It is the season when
more can be done than at any other time of the year to make pork other time of the year to make pork
production profitable, for a pig well production profitable, for a pig well started may be said to be well on the way to market. After he is a
few weeks old and has successifily passed the weaning period he is pretty well able to take care of himself if he is given access to plenty of the right kinds of feed. Therefore, says the United States Department of Agriculture, we should take particular care at this time in order to make the job easier later in the season and the profits greater. A pig that grows
well from start to finish is always well from start to finish is always one no matter whether the price of hogs is high or low.
It should go without saying, al though, unfortunately, it still needs repetition, that first of all the pig bred and of good type. He wust have in his veins the blood of animals that have had the capacity to turn a minimum quantity of feed in to a maximum quantity of meat. But even a pig starting with these advantages may be a poor piece of property if he is badly handled or if
fed improperly. He may get a bad fed improperly. He may get a bad
start in competition with his litter start in competition with his litter
mates; he may be stunted at weaning time; worms may sap his vital ity; the pasture provided may be inity; the pasture provided may be in-
sufficient for his needs; or, if precautions have him to an untimely and unprofitable end. But among these possibilities there is none that can not be guarded against.
The opinions of hog raisers vary widely as to the age at which pigs
should be weaned. Some of them should be weaned. Some of them take the youngsters away from their mothers at 5 weeks, others at 12
weeks, while still others may make weeks, while still others may make
them shift for themselves at any age between these extremes. In exceptional cases breeders will leave pigs with the sows even when they are more than 3 months old. Unless doing, says the department for so should not be weaned until they are at least 10 weeks old, and a sow that iod is undesirable as a mother and should be discarded from the herd. the pigs at an earlier age in order to get two litters a rear. The depart ment considers it better practice to
give the pigs a stronger start and give the pigs a stronger start and
raise only 3 litters in 2 years. It is raise only 3 litters in 2 years. It is larger number grown than to raise them stunted.
When a litter is to be weared at tention must be given to the sow's condition as well as to the pigs. To bring about a favorable condition for weaning, the quality and quantity of her feed should be reduced for 4 or
5 days before the pigs are to be takn away. This will result in a re duced flow of milk and tend to pre vent udder troubles. The sow should than the pigs from the sow. the youngsters being left in the quarters to which they are accustomed and having-access to a self feeder which they should have learned to use sev udder after she has been taken away becomes so distended with milk that it is painful she may me returned to her family for a short time for relief. It will seldom be necessary to return When the pigs are.
change the pation. goad pasture, with access to the on foeder containing eorn and shorts or middlings. If during thej suekling period or after skim mill for butter menee feeding it in small quantities, gradually increasing it from day to day. Sudden changes are always to
be avoided. Something may as well be said ing 2 littêrs a year, since it is closely related to weaning
pends upon his geographic be detion, his equipment for handitn loca during winter, and the kind of farming he is doing. Fall pigs require a

In many at this time as in the spring In the northern half of this country pigs should not be-farrowed after jrtoper 15 as they must hav cood start velore severe weather sets ig. A large percentage of spring April and most in Mareh and in September of the fall pigs come If a sow farrows Marcer.
pigs suckle 10 arch 15 and the weaned May 24 If the sown be good condition she may be immedi ately rebred, that is within 3 medidays after the pigs are weaned. If would were rebred on May 28 she 16, and tho .again about September November pigs would be weaned breeding for March 20 farrow. It is not always possible, however, to raising of 2 schedule, and the raising of 2 litters a year and having impossible. If, however ther time is impossible. If, however, the pigs
are allowed to suckle 10 weelks it should be easily possible for a sow to raise 3 litters in 2 years, and it is probable that more profft would be made this way than by crowding the sows too hard.

TWO NEW CHAMPIONS IN Two mamicimos
 classed former records of pro-
duction for their age and length of test making them new state champions, one. of them taking first place in two divisions
ion is declared highest Meus ChampIon is declared highest producer in in both the seven day and thirty day division.
She is owned by the State Fosnit
al at Newberr produced 674.5 pounds of for 34.87 pounds of butter. Her thirty day reeord is 2639.1 pounds of milk and 106.796 pounds of fat or 133 . 495 pounds of butter.
Segis Cornucopia Pauline, owned by w. C. Cornwell, Saginaw, Michi At full age in the state champion on she produced 2080 months divis milk and 766.71 pounds 22832.8 pounds a to 958.38 pounds of butter.

PRIZE EOW AT M. A. C. SETS
AUline Jane Pontiac, a pure
bred Holstein-Friestian new high mark for seven-day milk and butter fat production among al college herds She United States.
milk, milk, containing 36.58 pounds of 80 er official test.
merat Pauline's performance is is merely the result of eareful breeding the M. A. C. dairy department burnett of supervised the testing. Pauline was sired by Pauline Sir Pontiac, one of the best of the M. A. C. herd
Another of his daughters, Pauline Segis Fayne, produced more than 21,000 pounds of milk as a junior two-year-old and still another, Paul 800 pounds of Fayne, produced 19,800 pounds of milk at the same age.

## VETERINARY

 DEPARTMENT
## HOR'SE HAS POLL EVIL

a sore a horse four years old with a sore about as big around as a smal maine, about four inches behind his ear. It rums probably two table spoons of thick yellow pus in twent lour hours. Has been like that fo sometime. Am of the opinion that chere is a pipe in there. It isn' horse acts all right and is doing well What would you advise me to do po it?-H. B. H., Brant, Mich
In all probability this horse is sufcering from poll evil, a disease which of the ligament that passes along the top of the spine of the cervical verte-
brae. Two methods of treatment are commonly used by veterinarians for this disease. The one is to enlarge the opening and pack it with a
fistula paste which is left in position

## rounds is then second intention.

second intention.
The other method of treatment and the one that proves most suc-
cessful in the majority of cases is a surgical operation which consists in removing the diseased portion of the ligament. I would advise rou to put your horse under the care of a
competent weterinarian for treatcompetent veterinarian tor treat Prof. of Surg, and Med., M. A. C

## SHEEE HAVE AOUTE INDIGES-

 TIONI am writing to you in regards to miy sheep and hope you will please inform me what to do. The sheep retuse to eat, stand around and stretch their front legs out forward and the hind legs backward, and the back seems to cave in. Somerine alfight but no bowel passage. None right but no bowel passage. None Thought at first that was the trouble but the bucks are the same as the ewes. I am feeding fine timothy hay and alsike clover mixed. I have fed bean fodder. They have plenty of salt and I am feeding bran and
linseed meal.-A. P., Gladwin, Mich. -From the symptoms which you describe, I believe that your sheep are
suffering from some form of acute suttering trom some may be due to some spoiled or mouldy leed, or it may be due to timothy stalks irritating the bowels, or even penetrating them, as they sometimes do.
I would advise that you give each one of these sheep about one-half pound of epsom salts as soon as the trouble is discovered, remove the
timothy hay from the ration, and timothy hay from the ration, cower hay and bean fodder feed only clover hay and bean fodder
as roughage.-Geo, A. Brown, Prof. as roughage.-Geo, A. Browa, C.

OOW SUTFFERING FROM CHRONIC MASTMTS
I have a cow, Srd generation from purebred bull. She gave a good lot of milk twice a day. Unusual for
this couinty. Toward end of her this county. Toward end of her mik season her hind quarter. I milked her out geod for sometme,
aiter about 8 weeks. dry she calfed. Always wás an easy milker, now that same quarter gives a small stream of milk, milks very hard and seems to be sore and tender. Can you advise me?-C. M.,Roscommon, Mich. The cow is suffering from chronic gland of that quarter. The Treatment of cases like Milk out the affected quarter every two hours, message ounce; turpentine, one dram; and fluid extract of phytolacca, one dram three times daily, Give internally one ounce of artificial carlsbad salts night. and morning for two weeks.
If you have a good veterinarian in your locality I would suggest that
you put the case in his hands and you put the case in his hands and to treat the case muctone by mail. Surgery and Medicine, M. A. C.
SYMPTOMS OF PTN w'ORMS AND Boxs
I would be pleased to know what are the symptoms of worms in horses, both pin what is best to rid them
also what M. R., Elkton, Mich.
same.-C. M.

- Pin worms (Oxuris curvula) are parasites that ive in Frequently thes-
tine of the horses. Frequen are found in the rectum where they are found in produce irritation and cause the patient to rub the root of
che the tail and buttocks. Sometimes as the rectum a layer of white or yellowish dried exudate is found about the anus.
Bots affect principally colts and young horses which have been running on pasture during the summer. During the winter when the animals
are stabled and on dry feed they become unthrifty and show poor apcome unthriity and show itter tactite, of colic. Edematous swelling componly appears between the jaws. Where the invasion has very much emaclated.
When the parasite (Gastrophillus
hemorrhoidalis) is present in the rectum it may cause the pathant to
P. Hutton, Associate Prof. of Surg
\& Med., M. A. C. COW GIVES THICK AND STRINGY Would like to know what to do for my cow. Her milk is thick and stringy from one quarter of her udder. She has been fresh about two months. She gets three quarts of ground oats twice daily and mixed clover and timothy hay. She is in
fairly good condition.- M . P . fairly good condition,-
Maekinaw City, Michigan.
Mackinaw City, Míchigan.
Tis This cow is suffering from mastitis the treatment of which is very often unsatisfactory. I would suggest that if pessible you put the case In the hands of a good veterinarian If there is one in your locality and let him treat it. It is usualy verse of this kind by mail. If you, however do not have a veterinarian in ever, do not have a veterinarian in your community and will write and give me the particulars about the case I will be very glad to help you Hutton, Assoc. Prof. of Surg. and Med., M. A. C.

NEW MLCHIGAN ROLSTEIN CHAMPION Walke
$T$ Raverse Echo Sylvia walker, a Holstein cow owned State Hospital at Traverse City, declared new state champion producer in the junior two year class for production of butterfat in thirty days. This cow produced 2300.0 pounds of milk and 80.453 pounds of butterfat according to official announcement from the Advanced Registry affice. This buttertat produc-
The new champion takes the place The new champion takes the place
E. Ridgeman at Vassar.

HKE AMERICAN BUTTEER
VER fifty percent of the butter how imported into the DominUnited States, while until three years ago $9 \theta$ percent of the butter importations into that country were of European origin, a report from Mr. Francisco Fiol of the American Consulate at Santo Domingo informs the Department of Commerce. It is believed that American dairy and nut butters in the Dominican Republic they are given due publicity in

## THE EXPERIENGE POOL



CAN YOU SUPPIY THIS INFORMATLON
Has any.reader ever used the well boring outfit put out by the Spec-
ialey Device Co., Cincinnati, Ohio? ialey Device Co., Cincinnati, onio.
Did it give satisfaction? Did do Did it give satisfaction? Did it do thank anyone for any information
concerning this outfit.-J. W., Mich.

WART REMOVER
would like to suggest a remedy for warts in the case of Mr. F. H. B., Cheboygan. Anghe wilt saturate the warts thoroughly with Castor oil every two days for a couple of weeks I think they will disappear. tinue the not be necessary to continue the treatment that long. with two applications. A neighbor told me of this 15 years ago. I have used it several times and it has never failed me yet. This will not - Sanford McFHhenie, Fremont, Ind.


## - Cow Testers Know that DeLaval Separators Skim the Cleanest

Statements from over half the cow testers employed by cow testing associations throughout the United States, reaching over 6000 farms, give addition
De Laval Separators.

Cow testers know best of all what cream separators are used most, which skim cleanest and last longest, because they regularly test the skim-milk from the separators owned by their members. They say: -"I find on an average De Laval Separators skim cleaner from a trace to
one per cent. Thirteen out of nineteen separators here are De Lavals."
(. 01 of one per cent. Thirteen out of nineteen separaa.
one per cent equals one lb. out of every 10,000 .)
"unt of 48 separator users 29 use De Lavals. I've found them the best skimmers
for the longest time."

satisfaction after considaring all points."*
-"De Laval Separators have no equal for quality and

- flliencey. 15 out of 20 are De Lavals." -90\% of the separators used by my members are De
Iavelis. The majority skim closer than . .oz of one
per cent."*
"The De Laval is a very close skimmer under
-any and all conditions.
ab\% of the separators
 *hathorities for theses statements \&rom oo
 De Laval Cream Separators and Milkers
Send or it contains information about
the value of cow testing associations.
The De Laval Separator Co.



## You Get More, Richer and Smoother Cream from a De Laval

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It takes less than five minutes tomix the Carbola powder with water and have it ready to use as a white paint and powerful disinfectant. No waitingor straining;nq clogging of sprayer
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Are you remembering in purchasing your binder twine that you have a factory of your own at Jackson?

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## Michigan State Prison

HARRY L. HULBERT, Warden
JACKSON, MICH.

## THIS BEAUTIFUL BRIDAL WREATH

AND 4 OTHER HARDY ORNAMENTAL SHRUBS

## Planting a few shrubs this season will soon make your home a beauty spot and a greater joy to live in. Also, if you should later decide to sell it, you will find it more salable make your home a beauty spot and a greater joy to live in. Also, if you should later decide to sell it, you will find it more salable and worth a few hundred dollars more. Our col- lection worth a few hundred dollars more. Our col- lection consists of the following five most de- sirable varieties. They are not little, green-house-rooted cuttings, such as are often given in offers of this kind. These shrubs are all fleld grown, healthy and thrifty, and are sure to give satisfaction. We would recommend to give satisfaction. We would recommend that you accept our special offer without de- lay, as this offer may be withdrawn at any time. <br> Beautify Your Home at Our Expense <br> GPIREA VAN HOUTTEI (Bridal Wreath) A leader among shrubs, and a beautiful ornabush with arching branches, covered with white flowers in early summer. No doubt the most useful of all most useful of all shrubs. ALTHEA (Rose of ALTHEA (Rose of Sharon)-A beautiful shrub that nearly everyone is familiar with. Flowers profusely in late summer and early



Spirea Von Houttel (Bridal Wreath)
BUSH HONEYSUCKLE - Handsome bush with pink and white flowers in the
eary spring, followed by beautiful and eary spring, followed by beautiful and
showy red berries during summer and show
fall. FORSYTHITA (Golden Bell) - The
frst shrub to bloom in the spring, the
golden-yellow flowers appearing befor golden-yellow flowers appearing before
the leaves; frequently while the ground
ts still covered with snow. Branches ts still covered with snow. Branches
cut off in winter and put in a vase of
water will bloom in the house.

SYRINGA (Mock Orange)-One of
the finest of the tall shrubs. Valuable
for backgrounds, screens, grouping and specimens. Flowers white and very
fragrant. Beautiful for cutting.
These are the five grandest shrubs
for all climates, and will be delivered to
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Order of THE BUSINESS FARMER, Mt. Clemens, Mich.

## MICHIGAN CROPS

BOOSTING THE FALL WHEAT

R$P$ OLLING the fall wheat in the spring, after the ground has become sufficiently dry, has boosted many an unfavorable field of wheat. Packers, that are now a part of the equipment on man rhey, arlerize the soil to work degree than an ordinary to a finer leave the top of the roller, and condition that is less subject to a crust. They break the crust that is usually forming, fill the cracks, and press the freshly pulverized earth firmly against the roots of the plants This not only gives the wheat a start but aids in preserving moisture tha is often needed later on.
Last year the writer had an opportunity to witness the benefit that resulted from harrowing a field of fall wheat. The wheat had been sowed late in the fall, with very little growing weather following In the spring it did not appear to be werth leaving; but when a little the ground, and before it top of hard, the owner ran gre the with the spike tooth over the fiel impression the harrows made the the ground did not appear to be suf ficient to merit the time spent the wheat soon began to show improve ment, and by harvest time had at tained a normal height. This field of wheat, that at one time appeared to be a failure, returned a fair yield; and it payed the owner well for the little time spent in harrowing it.
The reason that rolling or harrow ing the fall wheat is not practiced on more farms is because it needs to be done at that time of the year when work is usually crowding the farmer. But, when one can increase one to three bushels per crop from so little effort it would be profitable to neglect less important work in order to give the fall wheat a boost. order give the fall wheat a boost.
Runing over the fall wheat with the packer or spike-tooth harrows this spring may be the making of the erop.-L. W. Silverthorn.

OAT SMUT IS PREVENTABLE
Would like to get some information regarding treatment of oats and bariey smut. Has the State Department of Agriculture a formula smut? If theyt of oats and bariey they furnish thaventi-smut cure? What would be the cost?-J. A. B., Tawas City, Michigan.
-This disease is caused by a parasitic fungus-a small plant which makes no food for itself but steals its living from the oat. The body of the smut fungus is made up of live inside the oat plant, growing up live inside the oat plant, growing up
with it, and finally producing its with it, and finally producing its own kind of fruit where the oat fruiting mass of the oat fungus is the brown "smutty" Dowwer. It is made up of the countless thousands of exceedingly minute balls. These balls are the "seed" of the sm
fungus. They are called spores. fungus. They are called spores.
These seed-like bodies, the spores are mature at threshing time. They get into the crevices of the grain and adkere to the surfaces: When the grain sprouts, the smat fungus young seedling. This is into the period when smut can infect the oats. Once inside, the smut the as the oat plant grows, keeping pace with its progress. When the ant matures, the smut matures also and completely replaces the normal grain with the "smutty" powder. The seed for next year's crop becomes heavily dusted with its powder dur-
ing threshing. It is not too much to say that, year in and year out, mut destroys 8 to 10 per cent of pproximately one acre out cropten planted. This amounts to every four million dollars annually.
Prevention of oat smut is possible by taking advantat smut is possibia the smut can only enter the train at sprouting time, the seed grain it self being the source of infection.
Seed treatments kill the spores
the outside of the grain, without injuring the grain itself.
Smut is now so common everywhere that untreated grain gives a heavily smutted crop; treated oats give clean, heatthy plants.
Clean the oats of all weeds, chaff and light grains by means of a fan ning mill.

Treat seed oats for smut either by the well known sprinkling meth od or by the new concentrated for maldehyde treatment

Mix one pint fresh formaldehyde with 40 gallons of water. Clean a prinkle with this solution. Spread the oats in a thin layer (four inches) and sprinkle with the dilute solution of the formaldehyde. Shovel over and over until every kernel is moist. Add layer after layer, sprinkling a before. Two quarts of solution is enough to allow to a bushel. When all the grain is moistened, shovel into a compact heap, cover two hours with a blanket or canvas, then spread out to dry and air. Do not let the wet grain freeze, mould or sprout.
The
The grain may be planted as soon as it is dry enough to run through
the drill. Make allowance for the the drill. Make allowance for the planting. One pint of formaldehyde winl treat from 50 to 60 bushels The treatment may be modified by dipping the grain, one-half to one bushel at a time, in a barrel or tub of the dilute solution. Drain, cover for two hours, dry and the oats are ready for planting.

Formaldehyde Treatment
Use formaldehyde at the rate of one pint to 50 bushels of grain. For smaller amounts of grain correspondingly smaller amounts of formaldehyde. It is unnecessary and than the mount core formaldehyde the right amount of fresh formald hyde just as it comes from the drie gist, into a pint or quart hand spragor atomizer and spray the grain as it is shoveled over and over. If the sprayer is kept close to the grain and if the treatment is given in a room where there is a good draft, the penetrating odor of the formaldehyde will give no discomfort.
When the right amount of formaldehyde has been applied, shovel the ats into a heap and cover for exactly four hours with a canvas or blanket
The grain should then be spread out thinly for a thorough airing in during this airing, then plant at once.
Wheat, barley and rye may be treated in the same way as for oats. Injury to the wheat will result if directions are not followed, or if the ragin is allowed to stand after treating. Plant the same day
With either treatment avoid contaminating the grain with dust from old sacks or from the drill. To dis infect the sacks, soak in formaldehyde, two tablespoonfuls to a pail of water. To disinfect the drill, pour this solution through it.

Ask any druggist for fresh forDepartment, M. A. C


## White Diarrhea

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

The following letter will no doubt be of utmost interest to poultry raisers who have had serious loss- from White Diarrhea. We will let Mrs. Bradshaw tell of her experience in her own words
"Gentlemen: I see reports of so many losing their little chicks with White Diarrhea, so ttou $\begin{aligned} & \text { Itht I would } \\ & \text { tell my experience. I used to lose a }\end{aligned}$. great many from this cause, tried many remedies and was about discouraged. As a last resort I sent to the Walker Remedy Co., Dept. 687, Waterloo, Iowa, for their Walko White Diarrhea Remedy. I used two 50 c packages, raised 300 White had one sick after giving th. medicine and my chickens are larger and healthier than ever before. I have found this company thoroughly rereturn mail.-Mrs. C. M. Bradshaw, Beaconsfield, Iowa."

## Cause of White Diarrhea

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

## Never Lost a Single Chick

Mrs. L. L. Tam, Burnetts Creek, Ind., writes: "I have lost my share of chicks from White Diarrhea. Finally I sent for two packages of Walko. I raised over 500 chicks and Diarrhea. Watko not only prevents White Diarrhea, but it gives the chicks strength and vigor; they develop quicker and feather earlier."

## Never Lost One After First Dose

Mrs. Ethel Rhoades, Shennandoah, Iowa, writes: "My first incubator chicks, when but a few days old, beDiarrhea. I tried different remedies and was about discouraged with the chicken business. Finally, I sent to the Walker Remedy Co., Waterloo, Iowa, for a box of their Walko White Diarrhea Remedy. It's just the only thing for this terrible disease. We raised 700 thrifty, healthy chicks and never lost a single chick after
the first dose."

## You Run No Risk

We will send Walko White Diarrhea Remedy entirely at our riskpostage prepaid-so you can see for youedy it is a wonder-working remedy it is for White Diarrhea in baby chicks. So you can prove as
thousands have proven-that it will stop your losses and double, treble even quadruple your profits. Send 50 c for package of Walko-give it in all drinking water for the first two weeks and watch results. You'll find you won't lose one chick where you lost-hundreds before. It's a pos-
itive fact. We guarantee it. The Leavitt \& Johnson National Bank, the oldest and strongest bank in Waterioo, lowa, stands back of this you don't find it the greatest little chick saver, you ever used, your


 Name

## $\left(\frac{1-3}{2}=3\right)$ POULTRY

VERY SUCCESSFUL INCUBATION Can you give me complete direc tions on how to thath in cubator without losing so man arge full grown the lose will say I sat 135 eggs and will test out about 24 and at the end of hatch I usually get about 75 to 80 , the rest die. I run a hot water heating sys tem and also one hot air system How many geese can you breed with one gander? Does it make difference in fertility of eggs if you use
your own gander from same flock? Can you incubate turkey and geese egss?-Mrs. C. A. S., Onaway, Mich -Statistics gathered from every part of the state this season indicate hat the average hatch has been about fifty per cent. ${ }^{\text {I }}$ note you re135 erse set and would consider this 135 eggs set and would consider thi during the months of March and during the months of March an when the birds are permitted free range a few dead chicks will be range a in the shell and the mortality
found during the incubation period will be greatly lessened
Low hatchability of the egg involves many factors. The breeding physical should of course be in the best nation, houvt pro and ver crowding in proin feeding, and ventilated buildings amp and tendency to decrease both fertility and hatchability. Immature breeding stock frequently produces a high of the chick is more ermily determin ed before it is produced and therefore the incubator should not be too severely critized for the resultant ow hatches early in the season. Ho water machines are usually the most satisfactory during the early months because the air at that time is rela tively dry and the moisture machines, on an average, will produce more successful hatches. Later in the season, however, when the hu air machines may excel the hot water air machines may excel the hot water
type. It is unadvisable to inbreed with either turkey or geese as the infertil-
ity usually runs much higher and the offspring is often lacking in con-stitutional-vigor. It is not ordinarily advisable to use over three geese with one gander. Both turkey and cubated by artificial means although
cubat t is generally advisable to set th domestic hen early in the seasoin thereby inducing the goose and turkpossible. The latter many eggs as incubation work later in the seaso - E, C. Foreman Associate sor of Poultry Husbandry, M. A. C.

REQUIREMENTS OF WHITE - WYANDOTITE

Will you please advise me the re quirements of a pure-bred White Wandotte?-N. E. D., Tustin, Mich - We are herewith publishing the dotte, as given in the American Standard of Perfection.
Disqualifications: Ear lobes more than one quarter positive ename white.
Shape: Shape: Head: short, round broad, Beak: short, well curved Hyes: full, oval. Comb: Rose, low, irm on head, top free from hollow with small rounded points, tapering to a well defined point at rear; the entire comb conforming to the shape of skull. Wattles and Ear-lobes: Wattles, moderately long, nicely rounded at lower edges, equal in length, fine in texture, free from wrinkles or folds. Ear-lobes, well definea, hanging about one third the length or watties; smooth. Neck. short, well arched; Hackle, abundwing medium in over shoulaers too closely to body; sides well roundshoulders; saddle, broad, full, rising with concave sweep to tail; saddle feathers abundant. Tall: short, wel of fifty degrees above the ar angle sickles, moderately long, eurving


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C H I C K S $\$ 12.00$ per 100 and Up
 atrong, livable chicks that twil
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Bank.

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CHICKS WITH PEP, $\$ 11$ per 100 and up
 holgate hatchery, Box B, Holgate, Ohio.

## CHICKS THAT MAKE PROFIT

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BABY CHICKS and HATCHING EGGS



 BABY CHICKS 12c AND UP

## Rheumatism




BABY CHICKS
 Berred Rocks
White Rocks
Rhode 1 Reds Rhode 1. Red
Whandetes Wyandottes
Oringtons
Lothorns
Lithen Leghorns-
Uncornas.

 202 Chaso Block Kalamazoo, Milchlgan.


PEQUIPREMENTS OF WHTIEE
WYANDONTE (Continued from Page 25) gracefully and closefully over tall; coverts, abundant, filling out well in
front, hiding the stiff feathers. rront, hiding the stiff feathers.
Breast: broad, deep, round. Body and Fluff: Body, moderately short, deep, round; fluff, full-feathered, Thighs, short, stought, showing outlines when viewed sideways, well
covered with short feathers shanks covered with short feathers; shanks,
short and stout, set well apart, well short and stout, set well apart, well
rounded; Toes, straight.-E. C. Foreman, Associate Professor of Poultry Husbandry, M. A. C.

FEEDING CHIOKS AND CHICKENS -SOME OF MY RESULIS W HEN chicks are first received by your own hens hatched best to feed them until they are thirty-six hours old, as the youk of the egg provided them with nourishment until they reach this age.
Feeding before this time cause many deaths because the system is not ready to receive the food and bowel trouble results.
For their first
For their first meal a good feed would be a boiled egg, shell and all its amount in bread crumbs times a week or two a more sutiable food for growing chicks would be rolled water constantly in summer and winter. Green fed is used as an appetizer
After the chicks are a month old they need heavier food to build up their systems. Along with this heavier feed a soft mash should be
fed. The ratio being one feed of soft buttermilk mash to every two Chicks grain
Chicks must have animal feed, can piek up bugs and worms they selves, but if they are confined yon must give it to them in the form of meat scrap. Another thing they must be provided with, if confined it needs chick size grit because it is food. Fine seratch sand should be provided for them if it is not possible fo bli
cracked corn chicks have been reared cracked corn and wheat give excellent exercise, if fed in litters from to seratch for it Hens will have too- much exercise for if they get have to work they get too fat and can't lay.
By feeding my chicks in this way I have ralsed them by having only eight deaths out of eighty. My hens
have produced in the month of Janhave produced in the month of Jan-
nary, 214 eggs; February, 460 eggs; and March, 1,002 eggs, making a told 128 dozegss. Of these I have sold 128 dozens, besides using in our home $112-3$ dozens and selling
two settings at $\$ 1.00$ each Selling two settings at $\$ 1.00$ each. Selling I have recelved $\$ 55.73$ and $\$ 2.00$ for setting making a total of $\$ 57.73$. The feed used amounted to $\$ 23.45$, Member Boys' and Girls' Club, Iron
County, Mich.

## cUliLing heens

N many flocks a large loss is mainkained every year through the it is important that culling be done regularly, but to do it right is the important thing. The two common methods resorted to for culling hens is to sell ofr those that have the rough, scaiy legs whether or not stead of indicating. Scaly legs inby a microscopic mits known as the "sealy leg mite.". This pest gets noder the scales of the shank and toes and naturally the advance chickens. This is not a reliable rule to follow in selecting the old hens. There are two methods for marking birds, which can be followed successiully. When the chicks are to clip the rear toenati, which if clipped wil never grow out again. convenience and serves as a means of identification. To illustrate: the the chitcks hatehed in 1923 can be
clipped. In the 1924 hatch clip the rear toenall of the right foot. In
this way in the spring of 1925 all, the
chicks hatehed in 1923 can be sold


289 EGGS


 POULTRY FARM, Route 40 , Hudgonville, Milch.
WASHTENAW
 Postpaid, full live ${ }^{\text {sid }} 2$ per 100 to these prices
 WASHTENAW HATCHERY, ADN Arbor, MICh.

## Day Old Chicks <br> 


 $2=2+2 z^{2}=$



 Add 35c if leas than 100 lots wantod Circular.
LAWRENCE POULTRY Dopt. 8 Good Roference R. 7 , Grand Raplds, mioh. QUALITY BABY GHICKS s. oc Brom strain White Meghorn Baby Chicks, Write for fiat.
Aloz. Cooks Poultry Farm, Hoiland, Miohtgan. WHITTAKER'S R. In REDS Michizan'a

CHICKS WE HAVE SHIPPED THousamise

CHIGKS - only sit come buff Leghorme


Keep The Business Farmer Com-
tug-See Page 28 .

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Keep The Business Farmer Com-
-See Page 28.

## 400,000 Chicks



Star Hatchery $\underset{\substack{\text { Biby } \\ \text { chicks }}}{ }$ minutici wix ixitic Prices Reduced
上wixw
 ARISTOCRAT
ARISTOCRAT
 Nimaina and heavy layina
sTrarron White Leghorns Splendid, big, heary weight, heavy
Livend henis.
Eiverlay Brown Leghorns
 ancomas



## Rosewood Farm

Healthy, Hardy Chicks

## Widy widw wive  We have had long experience in producing goo Crieks and our focke pre second to none. Circular free. ROSEWOOD FARM, R 12 A, Holland, Mich. BABY CHICKS FROM SELECTED FLOCKS Six leading varieties. Popular prices and guaranteed deliver. Write tor. cetapos and price list, H. PIERE, Jerome, wioh.

## The Court of Last Appeal






 sumpes



Base your judgment on the advertisements
and the gewer hatched chicks can
marked with the 1923 system. enough eggs to pay for her not lay er the second year or her keep aftand unless she year or laying season ue as a breeder she should be disposed of. It is during the pullet year best egg reeords and therefore it is best egg records and therefore it is
good practice to feed for egg production the first vear. The second year the hens that were the best layers and of strong vitality should be used for breeding. The third year they should be disposed of.
Another reason for culling hens is to keep down disease. For example one disease in particular is more evident in farm flocks than is generally thought of and that is tuberculosis. Where the disease is present in the flock, the older fowls show the larger ually in the advance stages of the disease. So culling will be a great help in doing away with this trauble. We would not cull now if hens are laying, but do so as soon as the laying period is over this spring.

HOW TO PREVENT DISEASE $T$ Here is no doubt that fowls under modern forced conditions years have more ills than lowls did fields in an when wild state. Forcing and pampering and inbreeding in various ways has caused it. But who would be willing to give up the various improvements and go back and cors and a year and that in the late springa year
time?
Thousands of progressive and successful poultrymen and up-to-date farmers are faithfully striving to banish the conditions which produce disease, and are living examples of how fowls should be kept for health. Fiowls kept in close confinement existing conditions very frequently are subject to about as many ills as their keepers, and that means legion, of death among the feathered tribes due to the sins of commission and omission is too great even to estimate. As someone has said, "stop sinning and attend to business," applies admirably in this case
The secret of sickness has been discovered. Disease is due to germs of a certain kind wiich devlop or sprout, if you please, when thre con-
ditions are just right, when the tilth ditions are just right, when the tilth
-or rather the filth-is right. The blood and tissues of the fowl are the blood and tissues of the forden for the germs. The feed in
garden garden for the germs. The feed in
the digestive tract is very often the seed-bed for these disease germs. You may read of them as microbes, basteria, ferments and the like. We are told that there are germs in a destroy the enemy germs so that they fall to get in their work. They are of various names and character and so numeraus that the average
man of practical ideas does not have the time or the finclination to study them individually enough to do him any good hand, it is very essential for him to know that stagnant pools of him to know that stagnant pools of stale garbage heaps, impure damp chilly houses and coops are all favorable breeding places for the disease germs, and hostile to the good health of poultry.
The question then resolves itself into whether the poultry man shall look well to the sanftary conditions with which he may surround his poultry by careful work, or utterly
ignore all such things, allowing his flocks to drift into a state of disease and trouble at almost any time, and
depend upon doctaring to depend upon doctoring to get results.
Preventative measures not only consist in sanitary measures but in new fowls are purchased proceeding to put them through quarantine until you are satisfied that they have
no diseases which may be transmitted to your which may be transmitthem with them. The same course should be pursued in handling your own stoek. If any should devefop
disease take it away from the balance of the flock to treat it, and do it at once. Do not put it back until ble have passed. Should it be badly affected the safest remedy is the hatehet and burying deep or burn-
ing. Too close confinement in smail


Our Business Egg-Bred Leghorns Produce Our Dependable Quality Chicks!

## The Famous Egg Basket Strain Single Comb White Leghorns

 Matod to Hollywood 250 to 300 Egy Pedigreed SiresProfits in Large White Eggs and OrderDirectFromThisAd Plenty of Them When Prices Are High. That's For Immediate Delivery what you want, and that what you get in the Prices, for May and June Famous Egg Baskd Strain.


 large lopped combs.
These wonderful Pedigree-Sired These wonderful Pedigree-Sired Matings, combined with our inteen years or skiurul
breeding produce our Egi Basket strain Leg-
horis, Fanous ail over the Uhited state for
his, their large size and great laying quality of
large white eggs. They are proven winter lay-
 paid. $\mathbf{1 0 0 \%}$ Hive dellvery guaranteed
Hatches every Tuesday. Order now $10 \%$ deposit books your order a and
assures future delivery juts when you
want them Can also ship Co assure thuture delivery just when yo
want them. Can also ship O. O.D. our wondertular Leghonscribes and
our large breeding institution Q. DEVRIES Grandview Poultry Farm, Box L , Zeeland, Mich.

## 300,000 Chicks <br> Guaranteed Michigan Bred and Hatched


 KNOLL'S HATCHERY, Box L, Hol land, Michigan
CHICKS, $\$ 10$ per 100 and up Porthaid tovar door and


 Only $\mathbf{T}$ heurs from Erand Raplds. Can reach any point in Michigan' In 24 hours.
TIMMER'S HATCHERY


PROFIT-MAKING CHICKS
WHITE and BROWN LEGHORNS ANCONAS

BARRED ROCKS and REDS



## HILLVIEW HATCHERY

GUARANTEED TO ARRIVE

 in the Chicks to iive and MAKE A PROFIT, Give us a trial and you will
HILLVIEW HATCHERY, Route 12 E , Holland, Miohigan.

WHITE DIARRHOEA



FADOHL REMEDV: co., Box 507, Norwalk, onto

## BABY CHICKS



KEEP THE BUSINESS FARMER COMING

SEE PAGE 28

## Poultry Breeders Directory

 Advertisements inserted under this heading at 30e per agate line, perissue. Commerclal Baby Chick advertisements 45e per ine. Write out what
you have to offer and send it in. We wil put it in type, send proof and quote
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PULLETS, HENS AND COCKERELS


LAPHAM FARMs, Pinokney, mich. JOHN'S BIG BEAUTIFUL BARRED ROCKS




hatching egge

## HATCHING EGGS

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## BUFF ROCK EGGS BY ${ }^{10}$ LB, MALES

## 

## THOROUGHBRED BUFF ROCK Eags




White and Bared Rook Egas For Hatahing. Furo,

marme foock hatching egas, norman







 SIMaLE CoMe RHoDE ILAND WHITES.
 Mrs, Albert Harwood, r. 4, onaribovix, Mich.


EGGS FOR HATCHING-UTILITY STOCK. EGGS FO R HATCHING-UTILITY. STOCK.
Champions. Good, White Wuare dandottes deal. Reasonable prices.
 WHITE WYANDOTTES MARTIN sTRain, SILVER LACED AND WHITE WYANDDTTES
FOur large, beautiful roosters. Eggs $\$ 1.50$ per 15 . c. W. BROWNING, Portland, Michigan.
 SILVER SPANGLED HAMBURG Ezas for for
 BOURBON RED TURKEYS. EGGS 500


 ROUEN DUCK EGGS ${ }^{\text {BT }}$ SETTING mrs. Arthur Ruttede, R. 4, Big Raplds, moch. Leghorns

## LEGHORNS

 $x_{0}^{5} 5^{2}$ PULLETS $\begin{gathered}\text { Bafron enalish whit } \\ \text { Lerhorms }\end{gathered}$


## TURKEYS-DUCKS-GEESE

 HIGHEST PRICES PAID FOR LIVE AND


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(Effective April 2nd, 1923)

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is Service, without further cost for the full period of my subscription.

RFD No.
P. 0.

STATE


HOW TO PREVENT DISEASE
houses with insufficient ventilation is a very common cause of disease. Let everything be light and airy and ful of sunshine.
Keep the houses and coops clean and free from mites and lice, both of which are deady enemies to fowls. Do not wait for a sign o mites to appear but go right after them, and use methods to destroy The feeding should
guarded, and nothing be carefully and soundest of orain and for fines used. Musty rain will put a lot ot fowls on the dumps about as quick as anything we can think of. They may not get sick unto death right off but they will get mightly out of con dition and be hard to get right again. Good fresh, cool water and shade are real essentials.
A great preventative or disease is n one the use of Epsom salts giv en once in two weeks during the hot
months; and once a month during the rest of the year It should be given at the rate of one-third tea spoon to the fowl, dissolved in water them: fed in the wet a mash for able. This item is too importanter be neglected, so take notice.

\section*{A TEN DOLLAR START}

Wlittle acre and here on my years ago, I had a half, nine on which to live until I could get a Jewett of Auburn. "I came largel for my health, since the doctors told me I wouldn't live. I had to do all the work myself, but it was the mak ing of me and I built up my little the best which I would not trade for the best property in Seattle
could buy and thet few ducks I friend of mine received a half dozen eggs from England and she divided with me. All I got out of the set him for a drake, but I have kep also secured some good African geese and I still have a gander which I call Jiggers, and five hens. with Chin years later I got started few eggs. I had to pay a license a \(\$ 10\) to begin and \(\$ 5\) each year thereafter. I find that they pay well, mostly from the sale of eggs and young pheasants, but I prefer to sell the eggs, since there is less labor in tract to hatch 200 pheasant eggs for tract to hatch 200 pheasant eggs for
the county game commission and will use Japanese Silky hens, since they can handle pheasant eggs better than a larger hen. They also make good mothers for the young birds after they are hatched.'
Light Brahmas, which she is raising for the production of capons. She has found a good demand for wellfattened capons, and has a few which have been fattened over winter and weigh six pounds at the age of 7 months, dressed and drawn. This flock will be increased this year, and a new cockeral secured with the idea of producing as many capons' as In another pen Mrs. Jewett kis a flock of hens which are crossed between White Leghorns and Wyandottes. While she does not recommend this cross, she merely gives the figures showing the egg production for January to show what can be done with a small flock. The 50 hens produced a total of 84 dozen eggs during the month, which were sold at an average of 27 cents a dozof which was clear profit \(\$ 22, \$ 14\) cost of feed. The birds got a thl anced ration of seratch feed and ege mash together with such green feeds as cabbage, carrots and other roots furnished from the home garden This pen will be kept as a commere ial flock

A few turkeys are kept merely to supply the demand for turkey eggs, and only a few eggs are hatched under hens which are not sold im-
mediately for setting. A number of mediately for setting. A number of
bantams are also kept about the place, partly for curiosities, and also to supply a small demand for eggs. "I have had better success with my ducks and geese than had eve most interesting games of the poult-
drakes, but I have gotten as many s eggs a day and never get les "The at this time of the year. or setting eggs and I have sold most of the eggs for this purpose. an also get a good price for the young goslings and have found it profitable to set a few of the Rhode Rland Red hens with duck eggs. they make good mothers, but I pre-home-made brooder and set the hens over again.
I have always kept the ducks and geese in the same lot and find that they do not interfere with each oth is always kept full of swiming tank and they kept full of running water at all times. now, since \(I\) just sold of some of the best stock. There are two of the the Toulouse and the African. There is a demand for both the young stock and for the setting eggs, but I would just as soon sell the eggs, as I can easily get 50 cents each.
since the are very easy to raise, since they need very little grain during the summer, but will get the grass be spared from green stuff that can a small lot in which garcen. I have ducks are kent and the geese and plowed and seeded to rye This will be fenced off and the birds turned in when the grain is about six inches high
"While both the ducks and the geese are very fond of water, it is not necessary that they have access to a pond. - The ducks are what are called dry land ducks and will get along with very little water. They are better-contented, however, if they can have a small pond to swim in and it is not so hard to furnish good plan most any lot. It is also a good plan to furnish boxes or small their nests Some ducks can have on the ground, anyway but it is la to encourage them to use the "I have a home garden in which raise a large part of my table sup ply," explained Mrs. Jewett "Thi is good garden soil, and I keep well fertilized with hen manure and can grow almost anything. Th garden also furnishes a good sourc of green feeds for the birds, and supplied practically all of the pen appied during the summer. Whil about the house collection of flower selling anything. I do not plan on are used more to add beauty the yard and to create a more home the appearance.
"It has been hard work to buit up even as small a home as this but it has been well worth while. I have done practically all of the work my self up until last summer, am 5 years old, and was never healthier in my Ife. attribute it all to the abundance of outside air and exer cise which a person gets when doin hard work of this kind. I have had good offers for my place, but have refused them all because I much pre rin home to the money it would ng . I would be a long time build y up another, and I would probab home was completed."-Washington home w
Farmer.

DISTINCT POULTRY BRANCHES The poultry Business, east and west, is geing broken up into several ing met branches-breeding, producfowls, market eggs, producing market wis, hatching, selling day-old chicks
unn of the Pour Prolessor A. G the Oregon Agricultural college of lieves that if the entire east dege beas a market producing section the demand for stock will find its way to the Pacific coast. Then if the time ever comes when the west can not compete with the east in commercial egg production our opportunity to develop poultry farms will come along the line of breeding.

\section*{JES' THE SAME}

A lot of talk", said Uncle Eben, "don't in
terest nobody ceppin' de person dat's doin' it
same as what you say to a mule or

HIGH COST OF MARRIAGE
ed unless he thean days that a man can hardly
wed unless he can show the gir
"Two licenses?
"Yes, marriage and Automobile.

\section*{The Agricultural and Business Situation \\ Revised Monthly, by the De
partment of of Research of the
American Farm Bureau Fec-}

A committee of eighteen economists called by Secretary H. C. Wallace to consider the agricultural outlook and to prepare a statement which will provide a basis upon which readjustment to meet the economic, situation may be made by agricultural producers, re
leading products as follows:

\section*{FOREIGN DEMAND:}

The foreign outlook, on the demand side, seems slightly less favorable to our farmers in 1923 than it was in 1922. The favorable factors with respect to demand are: First, the influence of American prosperity upon the demand for European goods; and second, the possibility that the sligh busin sain momentum has occurred in a number of European countries may gites in recent months have Despite the tariff, European exports to the enited a year ago.
been considerably larger than for the same period a year ago. ment debts on the continent of Europe, with its effect upon exchange, currency and business; second, the Ruhr situation
DOMESTIC DEMAND:
Most competent observers seem to agree that we may expect general business prosperity to last at least six to nine months longer. rect, demand will be distinctly more active next autumn than it was last autumn insofar as the demand for farm prodac.
families, not themselves on the farms.

\section*{WHEAT}

The American exports of wheat during the last two years were unusually large owing to the low exports from eastern Europe, and continued low production in some countries in Europe. These exports should not be taken as normal nor be expected to continue permanently. The European countries are making efforts to put their grain proauction on prex exports will decline and that our to accomplish this it
production should be readjusted to meet these changing en the United States is unfavorable.
The condition of the winter wheat crop in the United States is unfavorable. The intended plantings of spring wheat are 94.5 per planting.

COTTON:
The world's consumption of American cotton in 1921-22 was about \(12,600,000\) bales; the indicated world's consumption for the year 1922-23 is not less than \(13,000,000\) bales. There is no

The available information indicates, however, that the world carry-over of all cotton on July 31, 1923, will be 6,800,000 bales (largely of foreign short staple cotton), compared with \(6,700,000\) bales in 1922 and \(10,500,000\) bales in 1921, and that the use of American cotton will be little, if any, restricted on account of foreign production.

On the basis of farmers' intentions to plant 12 per cent greater acreage than they planted in 1922, the cotton acreage harvested in 1923 would be \(36,888,000\) acres. If the yield per acre in 1923 should prove to be the samo as the
bales.
TOBACCO:
The intended plantings for 1923 exceeds the acreage of 1922 by 10 per cent, the average acreage for \(1918-22\) by nearly 9 per cent, and the average acreage for 1909-13 by 55 per cent. Conditions of production and supply in the main control. There is nothing in the probable demand sufficient to offset the contemplated increase of 10 per cent in planted acreage; particularly when we consider that the 1922 acreage was above the normal and that the trend of prices since 1920 has, on the whole, been downward. CORN AND HOGS:

The corn situation at this date is about normal, stocks on farms being almost exactly the same as the 5 -year pre-war average. Between now and the time the new crop is harvested there will be some tendency toward corn shortage because of the large number of hogs on feed. Hog production has been heavy and is still in a state of expansion.

The prospects which producers must face before a year has elapsed is the absorption by domestic and foreign consumers of a surplus of over six million hogs and 250 million pounds of stored products. This represents a surplus of hogs and 250 million pounds of stored products.

\section*{I. Production and Trade}



3. Prices of Foreign Drafts:
 IV. Prices


 25 countri Anthracite coal
Bituminous coa Bituminous
Petroleum

\section*{Wheat flour}

\section*{Meat
Sugar
Cottor}

Pig iron
Steel ingot
Wood Wood pulp
Cement Cement
Wool.
Copper
* Not avai

Contracts awarded in 27 states:
(F. W. Dodge Co
Number Value \(0 . . .\). .......

 Grain and
Livestock
Coal
Corest products
Ore \(\begin{aligned} & \text { Merchandise } \\ & \text { Miscellaneous }\end{aligned}\).
*As percentage
Mar., 1923 Nov., 1922 Increased over previous month in \(\ldots \ldots . . . . .54\)
Decreased from previous month in......... 11 7. Bank Clearings:
2. Mining (Federal Reserve Bank of New York) : mating normal production, due allowance is made for seasonal
\(=\)


\(\qquad\) tiable........
```! ! ! ! ! ! !
``` 뭉…
\(\square\)

New York City........
Outside New York City.


\[
\begin{aligned}
& \text { France... } \\
& \text { Germany } \\
& \text { Belgium } \\
& \text { Italy .... } \\
& \text { SDain }
\end{aligned}
\]
\[
\begin{aligned}
& \text { Beiglue } \\
& \text { Italy } \\
& \text { Spain } \\
& \text { Austris } \\
& \text { nanmme }
\end{aligned}
\]
 s4.87 to 1 f St
19.3c to 1 frane
23.8c to 1 mark
19.3 c to 1 franc
1.
and 2ig

\[
\begin{aligned}
& \text { 48.7c to } 1 \text { rupee } \\
& .49 .9 \mathrm{c} \text { to } 1 \text { yen } \\
& . .100 \mathrm{c} \text { to } 1 \text { dollar }
\end{aligned}
\]
count Rate of the Bank of En
April 18, 1923 Month Ago
\(3 \%\)

\section*{Year Ago
\(4 \%\)}
III. Money and Credit

\[
\begin{aligned}
& \text { Stocks of monetary gold in the } 1923 \\
& \text { United states } \\
& \text { Try............ } \$ 3,961 \quad \$ 3,938
\end{aligned}
\]
\[
\begin{aligned}
& \text { United States } \\
& \text { Total supply of } \\
& \text { United States }
\end{aligned}
\]

\section*{Total deposits in National Banks.}

Deposits in New York Clty bantis.
2. Gold Movement ( 000 omitted):

\section*{Exports of gold ....... \(\$ 10,392\)
Imports of gatd..... 15,951}

\(\qquad\)
,

\section*{ratho of total reserves to denosits
and
ind}


4. Relative Purchasing Power of Farm Produts: 211
(U. S. Bureau of Agricultural Economic) The quantity of vareau of Agricultural Economics)
each farm product would purchaditites which a given amount of prices prevailing in 1913 is put equal to 100. The purchase at prices prevailing in ren represent the percentage
of this quantity which the same amount of farm products would
ond purchase in February, 1923. Prices at the farm are used for agricu
other


\title{
RemARKET FLASHES \\ \\ FOOTE'S MARKET LETTER
} \\ \\ FOOTE'S MARKET LETTER
}

\section*{By W. W. Foote}

\section*{Good Agricultural Outlook}

LABOR was never before so well employed throughout the United highest ever paid, with increasing industry. The railroads are doing the greatest business on record, and people are spending more money
than ever before, a great deal being expended for meats, flour and other farm products. Meanwhile, marketing of grain and. live stock helps
farmers to liquidate part of their farmers to 1fquidate part of their
indebtedness, and there are fewer indebtedness, and there are fewer
applications received by country applications received by country
bankers from farmers for loans. Our exports to other countries are on a
large scale, especially of provisions, large scale, especially of provisions,
these greatiy exceeding such exports made a jear ego. The government's forecast of planting, thy first ever atempted, indicates an. increased acreage of corn, oats, barley, flax,
tobacco and cotton. In the southern states planters are reported to be lowering their corn acreage and ma-
terially increasing the cotton acreterially increasing the cotton acre-
age. The past year was a very un-
favorable one for marketing both favorable one for marketing both
Irish and sweet potatoes, because of Irish and sweet potatoes, because of
overproduction, and consequent1y farmers are reported as lowering
their acreage for these important their acreage for these important ly late, and this means late seeding of crops in some places lessened
planting. Naturally, there is wide-
spread interest shown in the reports spread interest shown in the reports
of large losses of pigs on account of of large losses of pigs on account of
the late cold, wet spring, but it is the late cold, wet spring, but it is
probable that these reports were probable that these reports were
overdrawn in numerous instances and losses will be partly offset by the much increased breeding in most in prices of lamb in Chicago and other markets was due to a great falling off in the receipts, the Colorado fed lambs having been mostly
marketed, while the erop of southern mpring lamb furnished by Kentucky and Tennessee will not be ready to
market before June, owing to the market before June, owing to the
late spring. Great interest is manlate spring. Great interest is man-
ifested in the sheep industry in the middle west, and farmers owning plenty of hardy breeding ewes may

Curtailment of Wheat Acreag
Fluctuations in wheat prices dur ing recent weeks were apt to be
greater than usual, changing crop reports being the principal factor in the market. Not long ago prices
were much higher, but deliveries on were much higher, but deliveries on
May contracts were about the largest May contracts were about the largest reaction in quotations. At last the weather turned warm, after the long
spell of unseasonably eold and wet speather, and erop prospects are im-
wroved. However, rains came too proved. However, rains came too
late, it is claimed, to make good crops in Nebraska and western Kansas, and a great many tracts of winter
wheat fields of the southwest had Wheat fields of the southwest had
to be abondoned. In the northwest many farmers have been insisting upon getting higher prices for their
wheat, and it is-reported that forwheat, and it is-reported that for-
eigners have been buying wheat.in eigners have deen Canadian northwest, oriental business being especially heavy. Our
exports of wheat and flour week after week are running far ahead of last year, while prices are much lower
than at that period. The visible wheat supply in the United States is not looked upon as unduly large,
although it is \(44,521,000\) bushels, although it is \(44,521,000\) bushels,
comparing with \(31,281,000\) bushels comparing with 31, yhich is in large demand for export, mainty to Ger-
many, is much below the prices paid many, is much below the prices paid
a year ago, with the visable supply a year ago, with the visable supply
up to \(19,459,000\) bushels, whereas a
year ago it was down to \(8,163,000\) bushels. Corn and oats exports are
much less in volume than a year ago, While supplies in sight are much less
than then, the oats visible supply bethan then, the oats
ing only \(21,932,000\) bushels, con paring with \(55,837,000\) bushels last
year. Taking a wide-spread view of general conditions, the outlook for
the grain markets appears to be enlivery were made in Chicago

\section*{MARKET SUMMARY}

All grains are easy after declines in prices on opening day o week. Beans unchanged and inactive. Potatoes are easy with receipts fair. Butter and eggs active and firm. Receipts of live
poultry exceed demand. Hirm tone to dressed calves. Cattle not wanted. Hogs easy and lower. Sheep steady and higher.

\section*{}
\(391 / 2\) a year ago; corn at 81 oents, comparing with 62 cents a year ago; oats at 44 cents, comparing with \(371 / 2\) cents a year ago; and rye at 82 cents,

The Cattle Outlool
While it is difficult to tell what the future will bring forth, from all that better prices are expected within the next two or three months. More feeding was carried on in important cattie feeding districts last
winter, and the mild weather greatly winter, and the mild weather greatly
favored owners, as less corn than us favored owners, as less corn than us-
ual was needed. Marketings of catual was needed. Marketings of cattle for the year so far show heavy
increases over corresponding periods increases over corresponding periods
in recent years, and liberal supplies in recent years, and liberal supplies are expected so long as the supply stock and But dectar shipped from the western markets than a year ago, owing to the fact that many farmers thought the prices asked for well-bred stockers and feeders were too high as com-
pared to prices prevailing for finishpared to prices prevailing for finish-
ed beef steers. The nearness of the ed beef steers. The nearness of the
grazing season has started up somegrazing season has started up some-
what larger buying for stock cattle, but as yet shipments to country. points have been only moderate in numbers. However, some of the to continue in the business the same as ever, and James W. Wadsworth United States senator from western New York, showed up in the Chicago stock yards recently for the purpose of buying about twenty car loads of
thin cattle for feeding. He said thin cattle for feeding. He said
farmers in his part of the country farmers in his part of the country many cattle for autumn marketing, and they see no reason for abandoning the custom now. Mr. Wadsevenly between steers and cows. The cows average from 850 to 950
pounds, and he estimated that they would show average summer gains of about 275 pounds. Recent sales
of stockers and feeders in Chicago of stockers and feeders in Chicago have been largely at \(\$ 7\) to \(\$ 8.25\), a
few prime fleshy lots of feeders selling up to \(\$ 8.50\) to \(\$ 9\). Beef steers have been bringing \(\$ 6.75\) to \(\$ 7.50\) for the cheaper class of light weights up to \(\$ 9\) to \(\$ 10\) for the better class a few extra fine lots going as hi wh a few extra fine lots going as high as
\(\$ 10.25\). The bulk of the steers at \(\$ 8\) to \(\$ 10\). Cows and heifers go mainly at \(\$ 5.25\) to \(\$ 8\), prime heifers going as high as \(\$ 9\) to \(\$ 9.25\). Calves sell mostly at \(\$ 8.50\) to \(\$ 10\) per 10.0 pounds. Milkers and springers ane wanted at \(\$ 60\) to \(\$ 95\), prime Hol-
stein cows going highest stein cows going highest.

\section*{Abundance of Hogs}

Farmers have been breeding swine to a remarkably large extent for a. marketings at packing points this year than for, recent years. It happens that the consumption throughout the country of lard, fresh and cured meats has been almost phenomenally large for many months, and this has been an important facof lard and cired meats hexports of lard and cured meats have kept ahead of a yoar ago in volume far the marketing of hogs in Chicago the marketing of hogs in Chicago
and Missouri River markets has been much larger than in other years that stocks of provisions are piling np,
and this is a bearish factor that cannot fail to make itself felt in making hog values. Hogs in Chicago mar-
ket show up well in quality, their reoent average weight being 238 pounds, and the highest prices are
obtained for prime light bacon obtained for prime light bacon
hogs. Reactions in prices are to be expected of course from time to
time, but the prevailing belief is
that later on values will go lower. The advance in corn will go lower ed many stockmen to hurry up ship ments of cattle and hogs to market. Last week's Chicago receipts man far larger than a week earlier, sales ranging at \(\$ 6.50\) to \(\$ 8.30\). The best light lots sold a dime higher than the best heary butchers. Western packing for the summer season, be\({ }_{464,000}\) Manning March 24 , is reported as 7, 696,000 a year comparing with. 4,

High Prices for Lamb
Most of the Colorado fed lambs have been shipped to market, and as The spring lambs of Kentucky and keting until June because of the cold wet spring, there has been a real scarcity of fat lambs in the Chicago market lately and the highest prices of the year. The best wooled lambs have sold up to \(\$ 15.35\) per 100 lbs . but lambs are now mostly clipped before marketing. Heavy clipped lambs are wanted part of the time for export, and foreign buyers are Exports of such ones for such flocks. for the year to lambs from Chicago for the year to recent date amount
to 7,500 head. week exporters puring a recent 600 shorn lambs which about around 105 pounds. Which averaged ket is extremely firm. Meager re. eefpts last week made higher prices, elipped lambs selling at \(\$ 10.50\) to
\(\$ 13.15\).

\section*{WHEAT}

Wheat prices stow decided de-
clines for the past week and declines were made in the face of unfavorable news which appeared on the market
nearly every day of the week. Weanearly every day of the week. Wea-
ther that helped the winter wheat ther that helped the winter wheat
outlook was mainly responsible for the weakness in the mariket was rain over a great deal of the dry country and the crop gained in many late to do district of the southwest, where abandoned acreage makes a large total. The weather over the siring wheat states improved also, and this ment of much land and the substitution of other crops for whe substiseeding of spring wheat is about hree weeks late and not more than half finished in some of the importdoubtful promise. The erop a very conditions were all known a werable ago when prices were high and the better weather of last week caused mueh selling for the taking of profits bringing a weak tone. There are many bearish dealers in the market They believe the pressure of cash wheat will force prices down in the absence of an active foreign demand. the week business improved during Canadian wheat in foreigners tools and the supply in this country seek ing a market is very large. Austrailia reports an export surplus this year of less than half the previous
\[
\begin{aligned}
& \text { Detroit-Cash No. No. }
\end{aligned}
\]

Detroit-Cash No. 2 red, \(\$ 1.32\);
No. 2 white, \(\$ 1.32 ;\) No. 2 mixed, Chic

\section*{Chicago-Cash No, 2 red, \(\$ 1.2\)
No. 2 hard, \(\$ 1.193 / 41.201 / 4\).} \(\$ 1.423 / 4\); No. 2 hard, No. \({ }^{2}\) red, Prices one year ago-Detroit, and No. 2 mixed, \(\$ 1.35\) :

\section*{CORN}

Corn weakened some last week in wheat because of small reecipts and good demand from various in-
recetved at Chicago last week while
\(2,397,000\) bushels was shipped This naturally caused a decrease in stocks and had a steadying effect on the market. Corn for September delivery is weak at present as weather is generally favorable for spring work and much plowing has been done and indications are that this year's acreage will show a fair in-
crease over last year. Export trade
has been fair.
Prices
Detroit-Cash No. 2 yellow, 86 c. o. 3, 85c; No. 4, 83 e

Chicago-Cash No. 2 mixed, \(791 / 2\) New York-Collow, \(801 / 2\) @ 81 c . and No, 2 white, \(981 / 2 \mathrm{c} ;\) No. \({ }^{2}\) yellow, 98 e .
Prices one year ago-Detroit, No.
yellow, \(67 \mathrm{c} ;\) No. \(3,651 / 2 \mathrm{c} ;\) No. 4 , 2 yel
64 c.

The oat markets
The oat market is somewhat improve of business which a good rolhas enjoyed the past week market offerings to arrive are practically nil. Detroit-Cash No. 2 white, \(501 / 2 \mathrm{c}\). No. 3, \(49 \mathrm{c} ; \mathrm{No} .4,471 / 2 \mathrm{c}\). \(\mathrm{Ch}^{2}\). \(451 / 2\) \(461 / 2 \mathrm{c}\); No. \(3,45 @ 46 \mathrm{c}\).
New York-Cash No. 2 white, \(551 / 2 @ 56 \mathrm{c}\).
Prices one year ago-Detroit Cash No. 2 white, 45 c ; No. 3, 43 e ;
No. \(4,40 \mathrm{c}\).

\section*{Rye seems RYE}

Rye seems to be in good demand many points. The market steady a at Detroit.

Detroit-Cash Prices
Chicago-Cash No. \(2,783 / 4\) (a) 79 C.
Prices
Prices one year ago-Detroit,
Cash No. 2, \(\$ 1.08\).
beans
There has been a small decline in week but it is believed the last only temporary and that the price will advance in the near future. There are no more beans in Michigan than are needed and orderly marketis a campaign on price up. There acreage throughout the increase bean cording to reports, and it is intended to increase consumption by educat ing the consumer to make beans a more important part of his food.

Detroit-C. H. P., \(\$ 6.80\) per ewt.
Chicago-C. per cwt.
Prices one
year ago today-DeProit, C. H. P., \(\$ 7.20\) per ewt.

\section*{fotatoens}

Old potatoes reached the highest price level of the season during the tore part of the past two weeks but large receipts of hold owing to ments have been new potatoes, Shipheld up shipping from Mainods have growers of Michiran are inclind wait for higher are inclined to extent as yet not been felt to any exteut as yet as most markets had a good supply on hand. The tone of the Detroit market is easier.
Detroit-Michigan, \(\$ 1.43\) @ 1.50 Chicago-Wisconsin and Round Prices one year ago-Detroit, Michigan, \$2.06@2.17 per cwt. The hay markets generally have been steady espeeially on the top grades, Good qualities have continued firm at most markets because of light receipts, but poorer sorts are
abundant and are generally dull and inishing Country shipments are diminishing on account of spring work and although the demand is of moderate volume, markets are steady at
the close. Clover and mixtures are
dull except in the west.

\section*{May 12, 1923}
\(50 @ 16.50 ;\) No. 1 clover mixed, \(\$ 14\)
e15; No. 1 clover, \(\$ 13\) © 14. Chicago-No. 1 timothy, \(\$ 21\) @ timothy, \(\$ 18 @ 20\); No. 1 clover, \(\$ 15\) @16; No. 2 clover, \(\$ 13 @ 14\),
New York-No. 1 timothy, tandard \(\$ 13016\). No tim \(\$ 27\); \(\$ 23 @ 26\); No. 1 clover mixed, \(\$ 26 @\)
Prices one year ago-betroit, standard timothy, \(\$ 21 @ 22\); No. timothy \(\$ 200\) @ 21 ; No. 1 light mixed, \(\$ 21 @ 22 ;\) No. 1 clover, \(\$ 16 @ 17\). Alfalfa-Detroit, \(\$ 13 @ 17\); Ch cago,\$16@23.

\section*{WOOL MARKETS}

Midwestern wool trade remains on thout the leveis recently established, with a good firm tone. Prices are about unchanged from the previous week, but reports of contracting at higher levels in the west lend a feeling of strength to the local situation. Foreign markets are closing their ales at firm to higher levers, and tae osilion of the trade to be the eyes of most of the trade, to be a strong one.
Quotations on midwestern or socalled "native" wool in large lots
sueh prices as are obtained by the farmers' pools-are as follows (f. o. b. Chicago): Fine and medium staple, \(56 @ 57 \mathrm{c}\); \(1 / 2\) blood staple, 54 .
@ 55 c ; \(1 / 2\) blood clothing, \(51 @ 52 \mathrm{c}\).
busy plowing for corn and SEEDING OATS
Crop report for southern part of Jackson county: Weather very dry. Rain needed. Farmers very busy plowing for corn and seeding oats.
Clover seeding in bad shape. Help Clover seeding in bad shape. Help
very scarce. Many farmers leavin's very scarce, Many farmers leaving
farms. If the bars of immigration farms. If the bars of immigration
are not let down the farmers will he are not let down the farmers will he
without labor to run the farms, without labor to run the farms,
as all the farm help has left the as all the farm help has left the
country to work in the cities, aud country to work in the cries, aud
wages are so high that the farmers can not pay them, and make excan not pay.


\section*{Week of May 13}

1HE early part of the week of May 13 will be stormy and the Temperatures will average norgan. Tempere during first part and below last part.
strong and rainfall quite heavy in sections but during middle part in sections but during mide seart drier and temperatures fall to or al-
most to frost levels. At end of week most to frost levels. At end of week
possible frost will endanger early cherries, early strawberries, grape and garden truek.
Pastures and winter wheat will not have rapid growth at this time. Germination of rye and oats will be slow. Some eariy corn and potatoes plowing for beans and late potatoes. week
Average temperatures for this week will range below normal. From the beginning of the week until the midde part they will be ris-
ing but from then until the following Sunday they will be falling.
Generally fair weather is to be ex-
pected in Michigan during early part of week but during middle days, especially Wednesday, Thursday and Friday, light to heavy showers of rain are to be expected with electri-
cal storms in scattered sections. The cal storms in scattered sections. The week ends with fair weather. Season Backward
The next few weeks will prove backward to the average Michigan farmer and there will be much delay in planting and other outdoor operations. Plant on well drained plant fust prior to warm periods ou as late in the season as practioal.
hegishature closes session IN WAR-LILKE ARRAY
Continued from Pare 3)
lases among bees, by the establishment of sanitory regulations and
quarantine rules was passed by the
chiefly to prevent the spread of foul brood among Michigan bees,
Defeat of the Smith automobile weight tax bill ly a vote of. 41 yeas closing not the Michigan state legislature. The final vote was preceeded by one of the most intense and dramatic debates in the history of Miehigan's law-making bodies.
Acting under a "call of the House," which prevented any members from leaving the ohamber, the fight was waged back and forth for two hours while the members and spectators who packed the galleries and side lines to capacity went without their dinner unth \(2: 30\). when the final roll call was taken.

Debate on this bill was tinged nore or less with the intense bitterness which was developed among the representatives by the Governor's gas veto, Rep. Chas. Evans, leader tax forces volced this sentiment when he sald "This has ceased to be a question of a gas tax or a weight tax. It is now a question of whether or not representative government shall prevall in Michigan." He said that the eyes of the people from every section of the state were rive ed on the actions of the members of the House and declared that the methoas used to secure the passabe of the weight tax bill endangere viced the sentiment that when 80 representatives and 19 senators should sentatives and a measure which they felt that their constituents demanded, it was hardly fitting for the Governor to exercise his veto power.
Rep. Evans quoted Sen. Sligh's remark that the weight tax bill was "conceived in sin and born in iniquity" and declared that the real purpose of the bill was not to raise more revenue but to place the state high way department under ive Board Rep John Espte of Clinton county voiced similar sentiments when he said that to pass this measure would make the staté highway commissioner a mere offlee boy for the administrative board and would assist to build up a more powerful political machine in Michigan.
Voicing additional protests against the passage of the bill, Rep. Elijah Howarth of koyal Oak pointed ou the big loss which would be sustain ed by the counties under the system of distributing the highway funds proposed by the weight tax, which returns only one thira of cie receipts to the counties instead of one half as spoke in opposition to the final passage of the bill were Rep, David sage of tiler Dykstra of Grand Rapids.

After calling the speaker pro tem to preside, Speaker Geo. Welsh of Grand Rapids took the floor in support of the bill. He vindicated his own stand in the matter and urged the members to vote in accordance
with their convictions. He declared with their convictions. He declared that if representative government were in danger in Michigan it was not because of our able Governor but as they saw fit. Finally som vote moved the previons anestion and further debate was shut off and the representatives lined up as follows.
YFAS. Barmard Bertlett, Braun YFAS: Barnard, Bartlett, Braun liss, Culver, Dacey. Farrler, Ferris, Frees, Green, Hewlett, Ray L., Howell, Jewell, Johnson, Jolly, Ladd, Lee, Little, Lennon, MoKinnon, Manwaring, Miles, O'Brien, Ormsbee, Palmer, Raucholz, Read, Richardson, Sargent, Smith, Stevenson, us, Wardell, Watson, Geo. C., Watson, Joseph . E., Wood, Woodruff.
Welsh-411. Welsh-41.
NAYS: Baxter, Bradley, Brake, Braman, Brown, Geo, Bryan, Butler, Byrum, Curtis, Dawe, Deshano, Dexter, Dykstra, Emerson, Espie, Evans, Hosking, Howarth Hubbard Hulett, Hosking, Howarth, Hubbard, Hulett, Chas. F., Lewls, Rollie L. Leng, Look, MacDonald, MeEaehron, Meggison, Miller, Ming, Morrisa, No vins, O'Beirne, O'Connell, Odell, Osborn, Pitkin, Proston, Rasmussen, Richards, Robertson, Rowe, Roxburgh, Sanson, strauch, Thomas, Town, Wade, Warner, Wells.-56. If the House should kill this bill that the senate would kdl the Byrum in-
come tax and the Megaison primary school fund bill.


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\author{
"Not a Kick in a Million Feet"
}





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 kNomp than mocmean busmess FARMmin comma. Bme pacen st.

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FARM AND HANDS
LAKEVIEw FARM HANDY DPTROIT 80



 40 Bones 8000 HOUSE, 49 FARM LAND







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\$1 \(\underline{98}\)

Women's black satin dress pump, one-strap, one-





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    ulating application for Rupture. Name
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