

The Only Weekly Agricultural, Horticultural, and Live Stock Journal in the State.

HERE is perhaps no item in the
proper up-keep of the farm home
and equipment which is more often or generally negelcted by the average farmer than is that of painting. At the same time there is probably no section
of the country in which the farm buildings on the average farm are kept up as well as they are in Michigan, and particu-
larly in the older agricultural counties of larly in the older agriculcural counties of painting is too long delayed upon farm buildings and there is no year, and scarcely a mont itte any year, when there
is not some litte job of painting that should be attended to upon the farm, buildings or the farm tools or equipment It would be profitable to give this matter more consideration upon the average proved appearance but as well because of the more lasting and satisfactory service which will be gotten from both painted; for, while a profitable degree of satisfaction will result from the use of
paint for decorative purposes, the great object in the use of paint is as a prese
vative covering for the surface painted. To secure the greatest degree of ben fit in this direction, and also from a dec orative standpoint, it is essential tha good paint be used and that it be prop-
erly applied. Hence the first consideration in preparing for this work is the kind of paint secured. This should, in the writer's opinion, depend largely upon who is applying it. If an experienced
painter is employed it will be the best policy to let him look over the job and hen take his advee and whether ready paint to be purchased and whether ready ingredients.
Where the work is to be done by home labor, however, the case is somewhat diferent and for several reasons. A m painting will not know just the proper ngredients and proportions of each use in mixing the paint for any particuquired to get the paint properly mixed and unless enough is mixed at one time to do the whole job the inexperienced man will not get two batches of exactly tors are considered, as well as the waste of ingredients which may be left over, it will be more profitable for the man who is to do his own painting or have it done
by inexperienced help, to purchase a good quality of ready mixed paint adapted to he particular use for which the paint is needed, If purchased from a reliable
manufacturer or dealer of known reputation, who advertises his goods in reliable mediums, one will be certain in this way to get good material properly compounded gredients required for home mixing.
The paint can be p tity to suit the immediate demands, and small jobs of painting the ready mixed smail will be most satisfactory. Care should be taken when purchasing to should just what the paint is intended fo in oider to get a paint especially adapted to the purpose. Also a good quality of
paint should be purchased as this is the cheapest in the long run. The cost of the paint is a much smaller factor in the cost of painting than the cost of the lamuch labor to apply a poor paint as a good paint.
Where the ingredients are purchased for the home mixing of the paint, just as great care should be taken to get maof paints there are two elements to be

## Painting on The Farm.

icle for carrying it. The pigment used linseed oil and from five to 10 per cent in white paint and paint of the lighter of a good drier. These ingredients will
shades, is relatively expensive because of weigh about seven and threqur shades, is relatively expensive because of weigh about seven and three-quarters
the few really good substances available pounds per gallon about for this use; the base used in the com- quarter pounds of the vehicle and 15 pounding of a good white paint, or a pounds of pigment is required to make a aint of light shade, is ordinarily a pig- gallon of good paint. When white lead is pigments lead. Zine white and oth- used alone and mixed by an inexperienced ording to the work to be done. In some zinc pigment will crack and peel, but colored paints cheap pigments may be where the paint contains both these pigBut for all paints a good quality of called inert pigments it will produce linseed oil is the most desirable vehicle more serviceable paint than either one

or carrying the pigment, to which is ad- alone, and it is for this reason that ded varying proportions of driers, depend- manufacturers. of prepared paint who ng upon the character of the work to be have been experimenting for many years
done. Both pigments and oil may be of are able to turn out a product which is low quality or adulterated, but it is the guaranteed to give satisfaction or which part of wisdom to get a good brand of is backed up by the reputation of responwhite lead and pure linseed, oil. Even sible or reputable manufacturers at appure linseed oil becomes "fat," as its de- proximately the same price which the inériorated condition is technically termed, gredients of a good quality of home mixwhen it has been kept in stock for some ed paint would cost.
ime instead of being sold out while in a But there are other factors quite omparatively fresh condition. Important as the paint itself. It is es-
Paints of the best quality contain a sential that the paint be applied with a
isfactory job of painting with a poor brush. For the inexperienced painter the most generally useful brush will be a an oval brush of similar length. These ristles are too long for proper working and from one to one and one-half inches wound with cord to form what is thould be a "bridle", and as down from use this can be removed thus lengthening the service of the brush. Many painters prefer a broad, flat brush rapidly, bue more not get the paint as evenly painters will well brushed in with this kind of a There should also be a suitable scraper for scraping flaky paint from the surface for scraping flaky paint from the surface
to be painted, and a stiff brush to remove the dirt and dust, a well cleaned surface being a most important factor in
a good job of painting. In order to do a good job of painting a brush must be in proper condition. A brush can be kept over night by putting same in water,
but if not used for several days it should be washed out, preferably with turpentine. However, it can be fairly well, and much more eheaply, washed out with kerosene, then afterward washed with soap and warm water, after which it
should be thoroughly shaken out and hung should be thoroughly shaken out and hung up to dry, then wrapped up to protect it
from dust before being laid away for future use
The surface to be painted should be properly prepared. All knots in new wood surfaces should be coated with shellac to prevent the pitch in the wood from de-
stroying the paint. New surfaces should be primed over with a thin mixture of paint. A paint of ordinary consistency
to which is added an equal volume of raw linseed oil will furnish good priming material. After the priming coat is applied all nail holes and other rough surfaces
should be puttied in order that the finshould be puttied in order that the fin-
ished job m be smooth. All surfaces shed job m be smooth. All surfaces to be painted should be perfectly dry, as
the presence of moisture underneath the the presence of moisture underneath the Many painters use more drier than is adsecond in order that they may put on a second coat quickly. It is preferable, tween coats. On new work three coats will be required for a first-class job, but on buildings which are kept well paintably frequent intervals is sufficient Red paints such as are used on barns are made of a cheap pigment and a good
quality of oil. The bright red paints, such as are used on implements, are lead paints, however, but where the user does
not care to bother with mixing the ingredients the manufactured ready mixed paints are available for practically every
use, and if purchased with a view to their adaptation to the particular use for which they are intended they will give a good degree of satisfaction. These are the essential factors to be considered in planning and doing the become interested in the work who sire more detailed information, including te painting, the use of calcimines, etc., can
No. 474.
ECONOMICAL LEVELING OF HIGH. WAYS IN SPRING.

The accompanying illustrations show up the highways after the winter travel in muddy conditions has cut up the roads and left them badly rutted. The work of Highe by Bert Miller, Commissioner ers were busy with their teams and it


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was impossible to get horses to do the
work at the time when it most advantageously, so a could be done food goes to form forage or grain lies tor was employed for the purpose. It is used. a 30-horsepower machine and cost $\$ 10$ per The moisture supply also plays an mmday, including gasoline and a man to portant part in determining bow thick to operate it. Two road graders were at-plant the corn, that is, where there is tacked to the tractor direct, one drawing any possibility of its being deficient at the earth up from each side of the road, any time during the season. This is a
Two King road drags were attached be- factor that seems to be overlooked to a hind the graders to level off the dirt in
the center, and these were followed by a heavy land roller. Two men, besides each grader, were all the help required in running the entire outfit where straight as a leveling was done; but where grading is it capable of giving up just a contain was undertaken another man with a amount of moisture. Considering that a team was needed to assist in turning at dust mulch is maintained then the chief
the ends of the turnpike. The tractor source of loss of water from a soil dureasily handled all of these tools and did full more work than the several machines would have done with horses. Three ing a hot summer day is by way dur leaves of the plants. If there are three stalks of corn to the hill rather than two then the loss of water from an acre is cut as heavy a slice with the grader as very much greater. Where drouth pewas moved with the tractor. Working riods are common or where the soil loses least 18 horses and 11 men to havedrawn plant less corn per acre. A field of to the machines that the grader handled, al- may appear too thin for the average year though perhaps the horses might have but if the season happens to be a dry
covered a little more ground. In going one I have often noticed that the yield straight along the tractor drew the machines from eight to 10 miles in a day supposedly of 10 hours. The expense for
leveling off the surface of the roads should not have exceeded $\$ 15$ per day, not allowing for use or wear of graders, or
not far from $\$ 1.50$ per mile. Considering condition these roads were in when dry weather came on this was certainly a most reasonable expense. Such an outfor turnpiking short stretches of roads, turning the separate machines at the ends, but for long strips it would doubtless be economical

Allegan Co.

Edward Hutchins.

## planting the corn.

After having the soil in a good conditimon and the seed ready to place in the ermine how thick in the row or how many grains per hill should be dropped few more grains than it is desired should row in order to allow for some failing poor one, especially in hill dropping, for every case if this theory is carried dropped. If the seed bed is in the vitality is condition and seed of good d in a hill will germinate. If a hill then there is not much chance of any of he grains germinating. I have always observed on the home farm and on the neighbors' farms that the person who
gets his seed bed in the proper condition nd then plants the right amount of seed will get the best results, provided other actors are not overlooked.
But, just what is the proper amount with the fertility of the soil. Two, or common number used, regardless of soil and moisture conditions. If you have a
piece of bottom land or hill land where moisture is always plentiful and a yield

then, by all means plant three rains per hill. On slightly poorer land two seeds to the hill are sufficient. Where
the soil is poor in fertility and inclined dry out rapidly a single stalk per hill nay give the largest yield of grain if not
necessary to study this is true it is by necessary to study a detailed report
of stalks and yield per hill are civ-
Simply average up the yields per with a certain number of grains and you will see the results. It is very comwith two stalks to be greater than that dices nearly as much as two, usually about three-fourths as much.
produced it is first necessary to have be stalk, the grain being formed last. If the
young corn plant is crowded it is evident young corn plant is crowded it is evident
that about all it will do is to grow into a stalk, whereas, if a less humber of plants were in the hill the fertility and moisture required to produce the extra stalks would go to make the one or two
stalks larger and the extra plant food would form a heavier ear of corn. In other worms, under the same conditions
is greater than on an adjoining In conclusion, I would say, first prepare the seed bed well and obtain the best of sideration that the yield you re into con is directly dependent upon the number plants per. acre. In determining this fertility and capability of retaining mos Indiana. $\qquad$ M. Hayes.

## FARM NOTES.

Land Plaster for Beans and Corn Would like to know what you think fertilizer drill. What effect would it have them a better start or give a better hills of corn before corn is up? Montcalm Co, is not a fertilizer in the sense that it contains any available plan food. When the soil was comparatively new farmers very generally practiced sowing small amounts of plaster, particularly on clover seedings, with the recult that it tended to release some of the unavailable plant food contained in the soil and converted it into an available form, effect upon some crops, notably upon clovar, which is a liberal feeder on this aleolder and their store of available plan food smaller, however, plaster failed to produce the effect above noted and it use has been practically discontinued. or the reasons above noted it would no se it either on beans or corn as aug rested in this inquiry.
Concrete as a Material for Granary Floor. I am building a granary; would like to opinion in regard to the grain spoiling on
the cement floor? Gladwin Co
This is a question which has been disussed at some length through the columps of the Michigan Farmer in former who have used concrete as a material fore granary floors is that if properly laid on until thoroughly dry there is no used of grain spoiling from moisture absorbed through the floor. In fact, entire elevators are now manufactured of concrete
and give entire satisfaction in use. The floor should be raised some distance laid on the ground level and preferably laid on a foundation of coarse gravel or
cinders, while the soil about the foundtion wall should be tile drained if not
naturally well drained. If this method of construction is followed and the concrete is allowed to become firmly set and well dried before using we do not believe any damage would result to grain stored in same from this cause.

Planting Treated Seed Corn. After seed corn is treated and limed to protect it from predatory birds and ania corn planter? I have never planted it van Burin Co.
There is no doubt that seed corn so rated would att work as satisfactorily in a corn planter as in its natural condi-
timon. We have had tion. We have had no experience with
attempting to plant same through a corn attempting to plant same through a corn
planter. Perhaps- some Michigan Farmer reader can give personal experience upon this point.

MILLET ON LOW LAND FOLLOWED Three years ago I bought a 30-acre
field about two miles from our home farm, of rather low land. We fitted six acres for wheat. The wheat did not
Show up very good so we plowed it under
in the spring of 1912 and planted corn. in the spring of 1912 and planted corn.
Last summer was very wet and the corn Last summer was very wet and the corn
only yielded some fodder. The land is es keep coming up. My neighbors have raised some very good crops of corn in
dry years. I would like to seed millet in dry years. I would like to seed millet in
the six-acre field besides breaking up
about six or eight more for corn What kind of millet would you recommend? should it be planted? Is it cured like
other hay? Is millet very hard on land? spring after the millet. I realize that can't farm should be tile drained to that for a couple it years. Would you recommend any other Van in preference to millet? It is certainly pretty risky trying to farm on this wet land before tiling. In a very dry year Subscriber says that neighbors on the same kind of land raise fair crops of corn, but he had a wheat failure and a corn failure which would pay for sep in the improvement of this first There isn't much use in putting it off The risk is so great in trying to raise crops on land that needs tiling as bad as his does that one can almost advise letting the land go bare, not trying to raise any crops on it at all unless he is able on to work and tile it and get it in and have it all drowned to put in a crop do next to nothing because there is too much moisture in the soil, and the first thing to do with land that is naturally oo wet is to tile it. You can't get good results unless you do. Probably millet is as good a thing as you can raise on this until because you don't have to sow it I have sown millet as late as the June. uly and got a good crop of millet. Such will of the year, of course, the ground will be dry if it is dry at any time, and will again by fall rains the land gets wet sow Hungarian grass. This is a millet and it makes the best quality of a millet half bushel of seed to the acre . Now people would think that the acre. Many thick, but it makes a nicer quality of hay and finer, if it is sown thick, and by haw ing it thick you smother out weeds and have a better quality. This grass should be cut when it is in full growth before he seed forms and cure it as you would ny hay. Mow it in the morning, rake the afternoon, and cock it up and let right it the cock. If you leave it over nd it it is partially made in a swath bleach out and become dry and hard and I palatable.
would not think of sowing this wet land to clover. It will practically be will not grow time and your seed. Clove e tiled grow on cold wet land. It must and is acid, that it doesn't that this enough lime. If you would drain it then y draining the water off at the the come of the acidity would wash out, and probability this low wet land is in al lime and a good application would pay. It certainly ought to be taken into lover. make a meadow out of it I would seed it timothy and red-top rather than cooer. A little alsike clover might be mixd with the timothy because this will row on land much wetter than red cooring to Unless grow corn on this kind of land. ru can't expect an extremely dry season have put expect to get a crop. After you will be ruined by work into the crop Colon C. Lillie.

## ALFALFA.

While it is true that the best crop on解 crop is alfalfa. If you want valuable ingrowing it, let us send you such infor mation and sample of Seed free of charge We make a specialty of high grade hardy Wivern Grown Seed, sure to grow and d care Michigan, if a little well directas to purity been found and germination and has day.
Mention the Michigan Farmer
(Adv.)
Grand Rapids, Mich.

## Horticulture.

SUCCESSFUL METHOD OF HANDLING STRAWBERRIES.

No early fruit is more popular than
the strawberry and it is easily grown, the strawberry and it is easily grown,
even by any novice, on a great variety of soils. Of the many varieties there are ments of all states. Here in this section of the state, the Wilson, Warfield, Brandywine, Sharpless, Glen Mary and many more old standard sorts do remarkthe Corsican does best with me. This berry requires a deep rich soil and high
culture for best results and we aim to give it. It is a mammoth sized berry, good all the way through, and of
the very best quality, requires room to color up well, stands local shipment nice-
ly and where once introduced customers are crazy for it afterwards. It is not a
prolific plant-maker with me, but after all, m
 spring this intervening space between onions in rows about 14 inches apart for easy tending, with a hand cultivator. In
tending the one crop, both crops are kept
clean and the strawberries respond to clean and the strawberries respond to
clean and frequent cultivation as well as berries run and set just about right to
leave a space in the center to pick from
and by the time the vines throw out runners the onions are bottoming, which ting too thickly. We have the whole talds which. may come on later. In the regardless of the young plants near them,
which I find, after all, delight in having usually rank, are distributed as a partial
mulch over the field evenly. I thus get from my new berry field, besides giving the plants clean and frequent culture.
Bear in mind, this is rich soil and the our heaviest berry production for the
bed. We set new beds each spring and succession from one setting of plants.
Gladwin Co.
G. A. Randall. THE OAKLAND COUNTY HORTICUL. The May meeting of the Oakland County Horticultural Society was held at E . Saturday, May 3. The attendance was
very good, considering that it is a busy very good, considering that it is a busy
time of the year with fruit men. the business of the society, such as ar-
ranging the programs for subsequent
in the interest of the members of the
society. Plans have been made to use a
$\qquad$
$\qquad$
$\qquad$
the latter part of the season and furnish
a mulch to protect the roots during the a mulch to protect the roots during the
winter. Where commercial fertilizers are used, if the trees are getting a rapid good sense and judgment should acid. One's guide. The entire afternoon was given over to
Prof. O. K. White, of the M. A. C., who and fungus diseases with which the or chardist has to contend. The lecture wa
illustrated with drawings on canvass how the diseases look under-a compound
microscope. scribed and instructions given for the
application of the same. Reasons wer given why different kinds of spray mix-
tures are used, and the effects of different kinds of poisons. Spraying with poi-
sons serves a double purpose; it kills the insects and keeps the foliage healthy, a matter of great importance, as the leave
are the lungs and stomach of the trees
$\qquad$ まvavex $= \pm=$ zawaw $=-==$ tain a healthy foliage. Spraying for fun cure. Spray about the first of August for Emphasis was placed on the importance
of driving the poisoned spray into the
calix, or blossom end of the apples,
as that is the place where the litur,
worms from the eggs of the codling moth wiually amo nek the froit.
The mater of ofing mot the importance of thin It is the only method by which a un un
orm and good quality of fruit can be se cured. As to the proper time to thin
there seemed to be a difference of opin ture has done her work in what is called
the June drop. Then begin thinning on varieties first and leave the later varie
ties until the last. Mention was made that consumers i the city of Detroit complain that they
are unable to buy first-class fruit from heir dealers. The fault is not with th good fruit to consumers at a fair price nferior fruit because they can get it number one and number two fruit, and it


 much to educate the fruit are doing
should be attended by more of them. Too many wait to learn by example from means that Wayne Co N. A. CLAPP.

## GOOD SEED CORN.

## While the selection plays a most im-

 ortant part, the yield per acre depends only be accomplished by planting seed seed purposes should be tested and provOur Fire Dried Corn which has been selected especially for seed purposes, is of high vitality, some of it showing a test of 96 to 98 per cent strong germination. Ask for samples and prices, mailed free Mention Michigan Farmer.ALFRED J. BROWN SEED CO.,
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from dairymen with a view to their making such inspections.



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witing to adverthors.

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BARN VENTILATION
I intend to build basement for a barn horse stalls on one side and cows on the
other with feeding alley in center. I want orse with feeding alley in center. I want
ther
install a ventilating system in walls.
$\qquad$
$\qquad$ outside, just low enough to take one
ngth of straight tile, then elbow in
bout 4 in. below overlays, this would about 4 in. below overlays, this would
not be a direct intake, and it would give
room to use all I want, by using sides room to use all I want, by using sides
only for intakes. I have only 40 acres so
will keep two or three horses, and from two to 10 cows. Now, how many intakes
as described, do I want? Do you think described, do I want? Do you think
one end.outlet in center about $6 \times 12$
inside measurement, enough or not? it best to run this outlet shaft through
it roof or not? It will spoil the looks of my
roof to build a small roof over it. Will
you please outline a plan for me, not too you please outline a plan for me, not too
expensive? Wil have 10 or 12 two-sash
windows in the wall. I want plenty of light.
think your idea of ventilation is cor ike the idea of having the stable down ects only two or three feet above the ground that means that your stable wil
be down into the ground some four or five feet. I don't like this kind of a statirely above the ground. Even the floo of the stable ought to be high enough
above the ground so that no moisture from the outside could ever run into the
stable. This makes a healthier and better stable. There is nothing gained so figure the extra cost of excavation in putting the stable down into the ground to the first story of your barn than i
will to make this excavation for the stable, and you will have a better barn for
animals to live in than if you put animals to live in than if you put it
down into the ground four or five feet If you have it farther above the ground
you can put in your pure air intakes in you can put in your pure air intakes in
the same way, by the use of tile, having them open at the bottom on the outside and up next to the ceiling on the inside.
Now there ought to be more of these inNow there ought to be more of these in-
takes than you really need and ought to be distributed all around the barn so
that when the wind blows hard in that when the wind blows hard in one
direction you can stop up the intakes on that side and still have enough pure air
intakes to furnish all the pure air needed for your stock. Otherwise, the force of the wind will drive so much cold air into
the stable that it will cool it off too much Your ventilating shaft ought to be at foot and a half square. I don't believe that would be any too large for a barn project up through the roof. Of course, the barn then you could make a bend in cupola, which would answer very well, although you won't get as good circulation, there will be so much friction in through the roof and as high as the peak
this of the barn, or higher. What do you care about the looks? The all-important thing
is getting a sanitary stable, a stable in is getting a sanitary stable, a stable in
which animals will do well. After you get a ventilating shaft and see it on the
barn once you wouldn't think the barn barn once you wouldn't think the barn
would look right without it. You could make the same criticism with the chim-
ney on the house and say you didn't ney on the house and say
like the looks of it, but really a house don't look right without some kind of a chimney on it. will like your barn better
I think you will after you get it built if you have the
feeding alleys on the outside and the feeding alleys on the outside and the
broad alley between the cows so that you can drive through and load the manure directly on trucks or a manure spreader, proposition carefully before you arrange
the barn with the feeding alley in the center.
BUTTER AND CHEESE SCORING CON
TESTS TO BE RESUMED.
There will be four educational scorings conducted for the benefit of Michigan butter and cheese makers by the Dairy and Food Department this summer: The
in connection with the state fair in Sep tember. Blanks, rules and shipping instructions are being mailed; should any fail to receive those sent address the department at Lansing with request for to all who have butter or cheese scoring 90 points or over. The department is anx and cheese makers of the state all butter DOES SILAGE SHORTEN THE LIVES Does silage shorten the life of the cow? have heard
Mason Co.
Again
Again, I cannot conceive how a man state of Michigan, with silos in almost very township in the state. Silage ab solutely is not injurious to cows or an other stock to which it is fed. I have fed cows, sheep and horses silage for years, and it is a healthful food. It does not shorten their lives, but rather tends o prolong them, because it is a succuary food fed in connection with other and better assimilation better digestion ertainly is reasonation and a more the thousands of farmers who have used and are using silage have learned its merits, and if there existed the slightest and every wide-awake man would know -
HANDLING THE DAIRY CALF
The effort to secure a more efficient ype of dairy cow has centered attention every reasonable condition be provided that will serve to develop the promising calf into an adult of all-around dairy quality. Thus it is highly important that should it be required to growth, for some hardships that impair development to any degree, it is more than likely that when the animal comes to be a dairy producer the results of neglect will be evident. The calf should not only be surgrowth, but such an environmentinuous ed as will give it a ruggment is needed as will give it a rugged constitution
and proper disposition. That these con ditions are to a large degree within conpossibilities of the dairyman to provide is apparent to careful students provide, dairy business.
There are differences of opinion as to the best time to remove the young cal
from its mother. Some argue from the standpoint of labor while argue from the the interests of the animal. Because it the pail before it has been allowed tom suck, many would take it away immediately. Others more patient in this re-
gard and being willing to forego convenience in teaching the calf to take milk from the pail, leave it with its
mother for from one to three days. These latter men are aware of the importance of the calf's securing the first milk, or natural provision for purging the digesparing it for receiving animal and preSince the best dairymen follow the latter method it seems wise for the novice to alt

## dairy farm is teaching the calves to drink.

 Yet it is a peculiar fact that some menare far more successful in this are others. Whether it is because their methods are peculiar is a question. Nevertheless, it appears that those who exbeing an important one in the handling of the dairy cow from her birth to the Nature does not develop in the calf the nstinct for drinking. from a pail. It is nose high in the air and bunt, two qualities not easily reconciled to the practice must, therefore from a pail. The trainer dencies by getting the calf to hold its the bucket so as to insure the milk not being wasted. The writer has had the
best success in getting the calf to incline its head downward by holding the hand under the lower jaw with a finger near incline his head in the proper direction in an attempt to get hold of the finger. In so doing his head ean be readily diected into the bucket. Where the finger placed over the nose of the calf, after force his head downward necessary
strength, which is not an easy task, es- out suddenly, but a small quantity of
pecially should the calf be a strong, vig- skim-milk or sour milk should first be orous individual. As noted above, how- introduced and then the amount gradually the instructor be patient and as kind as the full amount of the substituted mate conditions will allow. rials is fed. This permits the digestive To protect the calf against contracting organs to accommodate themselves to scours and allied alimentary troubles, the change and will obviate any incon-
clean utensils should be used in feeding venience to the young animal. A similar and clean quarters be provided for re- precaution should be exercised as to the straining the youngsters. Frequently temperature of the milk, not to turn sudcalves are fed from a wooden trough. denly from warm to cold feeding. without apparent harm, in the event that tioned. Fresh air, sunshine and exercise thereby renovating it after each meal, yet Salt supplied regularly effects similar for the chances are nine out of ten that it sults upon the calf that it does on adult will soon become sour, get in a filthy con- animals. A piece of sod thrown into the
dition and be the source of infection for pen, if the calf is kept inside, will be enthe above mentioned troubles. Wooden joyed. When flies are bad give it a cool pails are likewise objectionable. Strong, dark place to lie in during the heat of
galvanized pails make serviceable and the day, and a spray with some fly repelsanitary receptacles for feeding. They lant will also relieve from the annoyance may, however, cause trouble unless they of these pests.
are cleaned every day. The stables, too, Where many calves are raised stanch-
should be kept free from filthy manures should be kept free from filthy manures ions become indispensable. The illustraas is too frequently the condition on tion on this page illustrates how these
most ordinary farms. Clean straw should may be made and shows the position of most ordinary farms. Clean straw should may be made and.shows the position of
be provided where necessary and some the buckets used in feeding the calves.


Feeding Calves Becomes a Pleasure when Stanchions Are Used.

\section*{disinfectant, like lime, should occ

be scattered about the premises. <br> 
be scattered about the premises.
If milk is fed only when in the
ondition, the calf will be well insure against being stunted. This means, first, that the feed should be of the right tem- d
perature, which is somewhere around 90 degrees Fahrenheit. When the tempera- fe ture gets below 10 degrees it is not safe condition is with regard to the acidity of ment each calf is given its own allot the milk. When the calves are young objection of feeding in a trough where they should not be fed sour milk. Sweet the calves that drink rapidly get more milk ought to be continued for at least than they should have, while the more three weeks, and better until the calf is modest drinkers are deprived of their just
weaned. In feeding separator milk re- share, move the froth before offering it to the Wayne Co. Subsoriber.
calf, since it occasionally causes colic. When the calf is about four weeks old BREEDERS' ASSOCIATION CREDITED it should be fed a little grain and hay. to start feeding these feeds when they
change from whole milk to skim-milk. A change from whole milk to skim-milk. A
small handful of grain dropped in the small handful of grain dropped in the
bottom of a bucket after the milk is fed will, after a few days, lead the cals or linseed meal may be used for this purpose. Unless in a
good pasture the calf should also be given it will early learn to eat.
The quantity of feed given the calf is The quantity of feed given the calf is often leads to trouble. The amounts rewill be needed every day until the calf is ciation has come better dairy cows, bet about three weeks old, after which the caring for the cows. Also, better methods of quantity should be increased to from sev- of handling the product from their herds,
en to nine quarts. If possible, continue viz., the organization feeding milk till the young animal is around six months old. When the change is made to skim-milk a temptation to feed liberally shows itself, but this should not be indulged in as most calves will lowed to to than is good for them if althe average calf should have about a half $\$ 160$ per month for butter-fat from 11 pound of mixed grain per day and at and the use of good business ability, in four months of age it should consume selecting, breeding, care and feeding the about two quarts of mixed ground grains cows that bring this amount, also by getper day.
One of
One of the important matters to watch goes to the consumer. That means thorin the handling of the calf is changing or ough organization. The Litchfield dairyintroducing feeds. When substituting men are organized and are all working for sweet milk it should not be carried
each other, a practice which occasionally individual animals. The the health of the ecrease the amount of labor ans also ecrease the amount of labor necessary to care for the calves, in that one man feeds a dozen as easily with the stanchions as he does one without. By the use

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running and durability, but as well in its great simplicity.
there is nothing about the operation, Cleaning, adjustment or repair of a modern De Laval Cream Separator which requires expert knowledge or special tools.
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THERE IS NOTHING ABOUT THE MACHINE THAT CANNOT be taken apart, removed or replaced by any one who can use a wrench or screw driver. In fact, the only tool which is needed in the use or the operation of a De Laval Cream Separator is the combination wrench and screw driver illustrated above, which is
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proof as a leather shoe can be, and can not be affected by manure.
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out-there are no pasteboard insoles, heels or counters. And the leather-known as
Tuff Hide-is tanned by a special process that insures you a shoe that is easy on the feet and

## demands.

$$
\begin{aligned}
& \text { Note these special features of the CADY } \\
& \text { Full length heavy double sole with slip, }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Full length heavy double sole with slip, } \\
& \text { whole vamp, Blucher style, full }
\end{aligned}
$$ whole vamp, Blucher style, full bellows tongue that keeps out

water, snow and dirt, and has outside counter pocket.
The workmanship is the very best thruout. There is probably a
CADY Dealer in your town-see
 him and examine the CADY FARM
 SHOE for yourself. If you can't get the CADY of your dealer write us, tell us his name and we'll see that you are supplied.
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BE SURE YOUR FEET ARE SHOD with the CADY when you GOINTO THE FIELD THIS SPRING

## BEESUPPLIES <br> 

## Rest





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colles

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FOX AND WOLF HOUNDS


## Poultry and Bees.

GUINEAS FOR PLEASURE AND the White instead of the Pearl, but for
ROFIT
There seems to be a good demand for guineas in nearly all of the large mar ing, as the excellent qualities of these learned to appreciate the guinea, as a table fowl, are not slow in expressing surprise at the fact that this bird is not more extensively raised.
fried, is delicious to say the least while an older fowl may be the least, any recipe devised for the cooking of chickens and the result will be as good, if not superior. Those who relish the
wild, gamy flavor, consider the guinea fow equal to our native pheasant. For substitute for the wild game birds which are so rapidly becoming extinct. Some
of the hotels and cafes in large cities serve young guinea fowl for pheasant or grouse
The guinea is an interesting bird and can be easily raised by any person who
can raise turkeys, as they require about the same kind of care. A few guineas should be kept about the premises, if for no other reason than that they are use-
ul as "watch-dogs." The high, shrill otes which they utter will quickly put
flight any hawk or crow on mischief ent; while after night, no prowling animal or person can approach a house
where guineas are kept without starting chorus of discordant cries. Their sense
The two varieties usually raised in this country are the White African and the Pearl. They are about the same in size ways. In color the Pearl guinea is dark with small white spots, while the White
African is pure white with bright yellow African is pure white with bright yellow
beak and shanks. The white guineas present the most attractive appearance when dressed for market, because the
small pin-feathers do not show. I used
$\qquad$ laying season they would "steal" their
nests some distance from the buildings usually in a meadow) and before they have such a nestful of eggs that they would desert it. This happens when sevThey dig their nests out so deep that the eggs are sometimes several layers
deep. If they sit on such a nest of eggs, as they will sometimes do, the result They resent intrusion, and if their nest is approached while they are near they distance away. If they leave it of their own accord, that is, if the eggs get too or nest close by. If the nest can be
found while the eggs are still few in number, they should be removed daily with a large spoon and replaced with
nest-eggs. Or, better still, to be on the safe side use no artificial eggs but reif they are wanted for hatching purposes be sure that the fresh ones are removed

Guinea eggs are as good as hen eggs $r$ table purposes, but are much smaller.别 of the guinea's eggs are laid during
summer months. Or, rather, to be more accurate the usual laying season is
from about the first of May until the latter part of August. This will vary a
ittle at times, however, depending more or less upon the climate and season.
Having disposed of the Pearl guineas, ome years ago, I started with the White because they are more domestic in habit. They stay with the chickens a great
deal, even laying their eggs in the hens' deal, even laying their eggs in the hens
nests. As a rule, a White African guinea hen will only "steal" her nest before be-
ginning the last laying in a season, and then it is apt to be only a few rods from the house and therefore easy to locate. They can often be found easily, just by listening for the peculiar sound of their
voices, while they are still on or near the nest. All guineas "cackle" alike.
White African guineas bring higher prices in large markets than others, for the reason stated above. It would seem
some reason the latter variety seems to be most extensively raised in this part the country. A flock of White guineas out interfering with other poultry, and here is profit, as well as pleasure, in ere market facilities are not the best, ere, and yet I have found the guinea to The guinie fowl.
The guinea is a great bug eatcher, a ing of insects. They will devour injurious worms and beetles in a garden, and they osts very little a rule. Their feed months, if they have a good range. If here is an orchard or pasture near by art of whe whe stay there the greater hade in summer, from hawks. A field where there is a natural growth, such as small bushes on ing the summer and fall. However it is got often that white guineas wander far rom home. Such a range is more es sential to the Pearl variety, although the White African will wander quite as far as a Leghorn hen, which is sometimes a
As stated above, White guineas are less wild than the Pearl, and will lay their "bgsssy," and for this reason it is best winter whem by themselves especially in Guineas cannot endure much cold. If house, during a blizzard, they will fly onto a tree or roof and stay there until they die of cold and hunger. The guinea is a native of warm climates and thereAny poultry house that is sufficiently warm and comfortable for hens will answer for guineas. But it must be above reezing to be comfortable.
$\qquad$
SEED CLOVER GRATIS
Such an announcement in the advertising columns of any paper would either dead to a general rush for the seed or a fake. And yet good seed may be obtained for nothing from a reliable firm, if we only go after it in the right way, All admit this; and yet with the high season many have striven to solve the problem indirectly in some other way than seeding as heavily as heretofore.
It is well known that bees and clover are mutual factors of gain, the insects, through their eross-fertilization, greatly ncreasing the yield of seed, and at the same time collecting much of the choicest sylvania made a record which we ber lieve to be the greatest ever recorded outside of the southern apiaries, where year. He took 127 pounds of the best alsike honey from a single swarm of bees, and later an even 100 pounds of buckwheat, leaving quite a quantity in unfin-
ished sections to piece out the honey in ished sections to piece out the honey in
the lower frames, which usually keeps the swarm over winter. This alone paid for the seeding of a few acres near the
hive to timothy and alsike mixed, and the yield of hay was clear gain, proving But to do this he commenced feeding very early, thus stimulating to brood earing, and had a strong swarm ready tilation and an abundance of room, with more supers added as the section boxes seemed crowded, overcame the tendency o swarm, while the clover field but a ually busy. By gradually increasing the acreage of clover, supplementing with a moderate size would carry an apiary large enough to yield a goodly profit; this would at the same time provide for keepbuilding it up in fertility, as nothing can do better than the legumes. In a region hrough the bees may be still the gain reased. And bear in mind further inverything the bees garner is that much Pennsylvania. Bessie L. Putnam.

## Live Stock.

## WHEN THE PIGS ARE WEANED.

 The weaning period is a critical one in the young pig's life. Some farmers wean their pigs entirely too young. Apig is not ready to depend altogether on feed from the trough before it is at least ten weeks old, although it may seem
previous to that time that it is not getBut that little helps wonderfully, therefore the mothers should be so fed that until the pigs are ald enough to milk fully upon themselves. Pigs that have ed earlier than those that have never
been given a feeding pen of their own. govern to a great extent the age at which hould are weaned, but the mistake soon. Some farmers weaning them too with a good brush. As soon as sprin themselves, but if the sows are to raise to shed I clip the hair off the shoulders two litters a year this method of wean- and use the brush regularly three time bred at a certain time. Where mist be ters are large the pigs are not so large in size at a certain age as when the lit-
ters are smaller, and in these cases it is pigs, leaving the weaker ones with the of the weakest pigs may even be left for a week or two. With this method of the weaker pigs will be given a good The male pigs should be castrated bethe operation is rightly performed and will grow off with no appreciable settil they are great big fellows, they will
receive a setback when castrated, from castrating, arrange for shade in case the weather turns hot immediately and
provide plenty of pure drinking water and clean sanitary beds. passed safely there are still many responsibilities for the swine breeder to
meet. A reasonably safe rule to serve in feeding the growing shoats is ery ounce they will eat up clean, provid ery ounce they will eat up clean, providanced one. An abundance of skim-milk is a valuable help at this time. Forage
crops will also assist materially in the finishing process. Not only do forage crops promote good health in the shoats
but the gains made from these crops are attained at far less expense than similar increases on grain alone.
During hot weather shade and an abundance of drinking water are very
essential for the shoats. Hogs suffer much in hot weather without shade and the hog pasture are always desirable, but
when these are lacking sheds should be onstructed. Water for drinking must be
given four or five times a day. Much trough is arranged for water to run into
from the stock tank. The shoats can from the stock tank. The shoats can
then help themselves to a drink at will, at the trough drinking nearly all the upply of water before growing pigs will Indiana.

## PREVENT SORE SHOULDERS.

## We spring on account of sore shoulders than from any other cause. The care of most important factors I bear in mind during the first few weeks of work, and I am never bothered with my teams having sore shoulders. driven to thain in his shoulders to ruel, but the fork ha is not only nsatisfactory. <br> My observation in dealing with horses having sore shoulders shows that they generally get their injuries from poor fit- ting collars, especially when the collars are too large. Some horses are hard to

of that kind it is best to have a harness of that kind it is best to have a harness
maker fit the collar to the shoulder. I
have seen collars that fitted badly made to conform to the shoulders by removing a the surplus leather caused by the sam I never use heavy collar pads, as they keeping the shoulders wet and rendering the skin soft and easily irritated. I think dirty collars almost as respon and I always see to it that the face of is kept clean of dirt and other accumu lations. In the early spring the horses
shoulders are covered with dirt and scales from the skin. keep removed by using a little war
water and soap occasionally followe to shed I clip the hair off the shoulders
and use the brush regularly three times I give the collar a good cleaning each
night by using a little water and harnes soap, occasionally followed with a bit of
oil. This not only keeps the collar clean, but renders the leather soft and durable
I have noticed the horse collars used by farmers who complain of their horse invariably found dirty, poor fitting collars or pads. Some teamsters think the only cleaning a collar needs is to rake off
the dirty accumulations with a knife blade or piece of tin. This is not the leather.
Another precaution I use in regard to the young horse is to not allow him to do his job, and also until he ceases to fret
Jerking a horse into and out of the furhead to one side, or throw his head up
and down, are good means to develop
sore shoulders. After the collar is sore shoulders. After the collar is re-
moved from the colt I find it a good plan
to sponge his shoulders with pure, cold water before sponging. The acid seems
to help toughen the skin. to help toughen the skin.
$\begin{aligned} & \text { Texas. } \\ & \text { A. M. Latham. }\end{aligned}$ Hogs have sold $\overline{\text { recently in Chicago at }}$
the lowest prices recorded in several weeks, the cause in great part being the
uncertain eastern shiping demand for
the better class of light and medium weights, although a wide-spread impres
sion that the months of May and would see much larger receints in the
leading markets of the country was a
powerful factor in the recent rapid demarket is headed in a downward direc
tion, the local packing fraternity took ad
vantage of every opportunity afforded b clines in values, and as force quick de
swine were carried over unse numbers
sing


## Concrete Culverts and Fence Posts Stand Firm in High Water

The spring floods have emphasized the instability of wooden structures. The high water washed them from their foundations and carried them off like kindling wood. Had they been solidly built of concrete, they would have withstood the flood. In repairing the damage done by high water, rebuilding fences and culverts, use

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 DETROIT, MAY 17, 1913. CURRENT COMMENT.

The Alfalfa Campaign. $\begin{aligned} & \text { In another col- } \\ & \text { umn will be found } \\ & \text { a brief account }\end{aligned}$ of the alfalfa campaign conducted in Kent county during the early days of this
month. County Agent J. H. Skinner, of Kent county, who directed the campaign,
states that he considers it an entire success, the attendance and interest at the
meetings throughout the county being better than he had anticipated. At t
32 meetings held in five days there w an attendance of something like 5,000
people, and the names of about 400 farmers were secured who signified their in-
tention of sowing from one to ten acres of alfalfa during the next 12 months. of alfalfa during the next
Perhaps the stronest point in this
campaign is the system of follow-up work campaign is the system of follow-up work
which is planned in order to get personal who are co-operating in this campaign on their farms, which wil insure a sons
county Aside from Mr. Skinner and several of work, as well as prominent farmers and educators mentioned in another column,
special acknowledgment should be made of the services of Prof. P. G. Holden, in
charge of the educational work of the $I$. H. C Agricultural Extension Department, in the same work who accompanied him. The same men also aided County Agent
C. B. Cook, of Allegan county, in a similarly succeessful campaign in that county
the following week, and will aid in similar work in adouining states and prob-
ably in more counties in Michigan during
Similiar campaigns are planned in at
teast three other Michigan counties, although details have not yet been fully
formulated. It is certain that Dr. Mumformulated, It and the farm management experts under him in the several counties of the
state could-scarcely have directed their produced better immediate results in the Such efforts are worthy of the co-citure tion of every farmer in the state and tend these alfalfa meetings in counties where they are yet to be held, to the
end that this most valuable of forage plants may be more rapidly introduced in
every county in the state, until the farm on which it is not grown has become the
exception rather than the general rule. Co-operation for A joint committee on federal Good Roads. aid for the construction Hon. Jonathan Bourne, Jr., is chairman,
has been making an exhaustive investigation of the best method of co-operation
 to tho comsititee by Mre Boune is worthy of mention, not alone because of its of the lesson in finance which its details hold.
This plan contemplates the apportionment of a billion dollar road construction area, population, assessed valuation and
road mileage. The plan of distribution is that the several the United States treasury their 50 -year four per cent bonds for the amount ap-
portioned to them, the government to boan the states the par value of such
bo purpose of road construction. The government funds for the pur-
pose are to be raised by the sale of 50 year three per cent government bonds. ing of each state every year with the excess of the one per cent interest paid
by the state over the interest which the government pays upon its bonds, together annually on the excess of the one per cent. By this means a sinking fund
would be established from which the govend of 50 years and the states be the lieved of the payment of the principal of
their bonds deposited with the government. Further provisions of the plan government to pay to each state annually bonds on deposit, provided the states exUnder the plan there would be constan co-operation between the states and the
federal government without placing the states under the control of any federal bureau or department in the execution tion for the establishment of a national
school for highway and bridge engineering to educate trained specialists as means of supplying eompetent
Whether or not the plan is adopted it gested, which holds just as arove sug bilities along other lines. The same principle applied to the establishment of comeasure of the same possibilities as this plan of financing a scheme for government aid in road building, provided a
feasible plan could be worked out which can conditions.

The American com Sentiment. way to Europe to study plified by the farmers of Europe, partictural credit has an important task be fore it. Aside from the federal com missioners appointed by the President, whose names were given in a recent is-
sue of the Michigan Farmer, sue of the Michigan Farmer, there ar
nearly 100 delegates, chosen for their fitness for the task which confronts this commission, coming from every section
of the country, many of them represent
states or organization interests in this proposition. The first task of the comof different plans of co-operative credit which have been successfully established Since efficient capitalization is the first step toward improved agriculture this i ly to be hoped that the two objects sought may be attained as a result
this investigation, viz, first, to effect saving to farmers by reducing interes better the terms and increase the avail ability of loans. It is certain, however, three months of investigation pursued by this commission. Their efforts must be backed up by a public sentiment embrac ing a considerable percentage of the 12, 000,000 farmers in the United States
After all, the success or failure of this enterprise which has been under discus sion for more than two years will depend
upon the attitude of individual farmers throughout the United States. Unques tionably much in the way of educational benefit will result from this investigation on which the American commission has
just set forth, but there is really little just set forth, but there is really little
that this body of efficient men can do other than to advise with regard to th farmers along this line to American con be required to bring about the desired

## this end. With pr <br> With proper interest and support from

 development of public sentiment the this line is bound to be rapid and results agricultural industry of the United States. With a start made in co-operation along these lines it will be but a step further tions to conserve the interests of the producer to a reasonable degree. Unquestionably the greatest good to the great-est number demands the greatest efficiency in production upon the farms of this country, and yet that efficiency
should not be penalized, as under present conditions, by making a large crop
less valuable than a short crop, as is illustrated in that staple product of Mich was fllustrated in the southern cotton We hope and belleve that this semi official investigation of European co-operation may be the first step toward the solution of these problems in our agri
culture, and to that end we bespeak fo the work of this commission and the ear nest work which must follow before these
ends are realized, the earnest though and attention of every Michigan Farmer Mothers' Day. Mothers' Day is an institution which had its
inception some years ago Pennsylvania. Gradually the sentiment has spread until now it is a day quite commonly observed in many
states in the Union. Former Gov. Osborn was the first to designate a date
to be known as Mothers' Day in Michigo be known as Mothers Day in Michi-
ris has issued the following proclamation: Never did the word mother have a
broader and deeper meaning than it has
today. The welfare of the world is rebroader and deeper meaning than it has
today. The welfare of the world is re-
lated motherhood. Would that the
mothers of our sons and daughters fully
realized the power they wield. Through mothers of our sons and daughters fuly
realized the power they wield. Through
the double standard of virtue established by man long ages ago, mothers have un-
consciously granted their sons license to
disregard the sanctity of womanhood.
When mothers shall insist When mothers shall insist upon as clean
men for husbands of their daughters as men for husbands of their daughters as
they now insist upon clean daughters for
wives of their sons, a new era will have dawned in which the social evil and the
white slave traffic will have largely dis-
appeared from our fair land. The highest appeared from our fair land. The highest
type of woman is the mother. The word
mother thrills the heart with ioy mother thrills the heart with joy and
gratitude, and gives to memory priceless
treasures. Theres.
The, I, Woodbridge N. Ferris, ask
that the people of Michigan set apart the that the people of Michigan set apart the
third Sunday in May (the 18th) as Moth-
ers' Day. As far as possible, let parents ers Day, As far as possible, let parents
in their homes and both young and old
in public meetings discuss the theme of
Mother with that enthusiasm and sinMother with that enthusiasm and sin
cerity which should characterize all loya
Americans.
The fitting sentiment of the occasion i so well expressed in the above proclama sary. We bespeak an appropriate observance of Mothers Day by the gr
family of Michigan Farmer readers.

## ALFALFA CAMPAIGN IN KENT

The gospel of alfalfa for every farm in

$$
\begin{aligned}
& \text { Kent county has been preached in each } \\
& \text { one of the 24 townships, during the first } \\
& \text { week of May with great success. Kent }
\end{aligned}
$$

execels every other cron in the yiele per per
acre. Its value as a a drouth resister, as
 corn ration, was pointed out. Experi-
ments show that profits from the crop in
Wisconsin were $\$ 31$ per acre, as compar-
ed with $\$ 14$ per acre for timothy or clo-
ver. Alfalfa is rich in digestible protein
and is equal to bran for milk production. ver. Alfalfa is rich in digestible protein
and is equal to bran for milk produetion.
Bran costs $\$ 21$ per ton, alfalfa hay $\$ 5.15$. Bran costs $\$ 21$ per ton, alfalfa hay $\$ 5.15$.
Alfalfa balances the corn ration for pigs
and makes cheap pork and cheap beef and makes cheap pork and cheap beef.
There were usually short talks given
by other speakers, while at the evening by other speakers, while at the evening
indoor meetings, with an increased at-
tendance, a longer program was given. tendance, a longer program was given. As an example of what one man is doing
it was learned that H . Morley of the north-
ern part of the county, has 40 acres of
ate alfalfa and will put in, ho acres more in
June. He says he will keep at it until
he has 120 acres of alfalfa and judging from results with the first 40 acres he
will receive a net income of $\$ 6,000$ per
year from the 120 acres.
Kent Co. Kear from the 120 acres. A. Griffen.
Kent Co.

## HAPPENINGS OF THE WEEK. <br> National.

The city of Cleveland is suffering from believed to be the result of the blg floods
of early spring, when the Cuyahoga river of early spring, when the cuyahoga con-
went outside its banks and swept con-
taminated water far out into Lake Erie. taminated water far out into Lake Erie.
President Wilson is appealing to Gov-
Gover Johnson, of California, to hold the ernor Johnson, of California, to hold the
allen-land bill, recently passed by the
Legislature of that state and now before Legislature of that state and now before
the Governor for his signature, until
matters can be diplomatically considered between this country and Japan to the
end that evils may be corrected in a way hat will be less likely to bring the two One person was. killed and three in-
jured when a Saginaw \& Flint Limited
car hit an automobile at a crossing at Clio last Sunday.
Street car men in Cincinnati are out on
trike, with the Street ear men in Cincinnati are out on
strike, with the result that the city is
commercially at a standstill. An attempt was made Sunday to man the cars
with strike breakers but this failed and resulted in several riots. It is expected
that the strike will be extended unless the demands of the men are met.
The naval board is planning for the
construction of a 40,000-ton battleship and
will ask Congress to appropriate $\$ 20,000$, Will ask Congress to appropriate $\$ 20,000$,-
000 for the purpose,
Railroad conductors are holding their Railroad conductors are holding their
national convention in Detroit this week
Fully 2,500 delegates had arrived by Sun day and that many more were expected A fire in a candy plant at Kalamazoo The city of Monroe, Mich., has planned to celebrate the 100th anniversary of the
battle and massacre at the River Raisin. Che date has been set for June 18. signed as representative of the twelfth
congressional district of Michigan. AIthough the board of canvassers, in com-
pliance with the election law, granted pliance with the election law,
Mr. Young a certificate of election, the
returns would have given the seat to his returns would have given the seat to his
opponet, Mr. McDonald, but for the mis-
printing of the latter's name on ballots printing of the latter's name on ballots
in certain precincts. These votes being
counted out gave the election to Mr.
Young, who now resigns; Young, who now resigns: The action to tion of the twelfth district is a question.
It is possible that a special election will
be held. For the first time since the Civil War
the four great divisions of the Presbyterian Church of the United States will
convene at Atlanta, Ga. Five thousand delegates are expected to be present.
The conference of republican senators and leaders is being held in the city of Chicago for deciding on the program
looking toward the rehabilitation of the party. Senator Sherman, of Illinois, preGeorge Shippey, at one time a promi-
aent lumberman of Muskegon, died in Los Angeles, May 12 .
Lansing is bringing suit against the
Michigan Power Company to permanentMichigan Power Company to permanenting with its citizens to furnish electricity
for light. The city has a municipal plant and since it is giving excellent service tial dividends, the officials are anxious to
give it a clear field and therefore hope to
refuse the Power Company the right to refuse the Power Company the right to
do business.
The National Association of ManufacThe National Association of Manufac-
turers will hold its annual convention in Detroit May 19-21 inclusive. This organ-
ization is composed of 4,000 of the leading firms of the country. Industrial, po-
litical and economical questions will be
considered at the sessions. Foreign.
A typhoon struck the Philippine Islands wrecking several sma many deaths and
meamers and nu-
merous other craft. The known fatalities merous other craf. The known fatalities total 58, but it is believed that later re-
ports will greatly increase the death list.
No Americans are known to have been Five persons were killed and five oth-
rs seriously injured by an explosion in rs seriously injured by an explosion in
fireworks factory at Rome, Italy, where laborers were working overtime on sig-
nal rockets to be used by the Italian war department. A collision between two Bulgarian milkilled trains resulted in 100 persons being killed and 300 injured.
The international tribunal for the ar-
bitration of private outstanding claims The international tribunal for the ar-
bitration of private outstanding claims
between United States and Great Britain will hold its first meeting in Washing-
ton cated are of a private nature. This is
the first attempt to settle such com-
plaints since 1853 . aggregate $\$ 4.330,000$ and the British

# Magazine Section 

LITERATURE
POETRY
HISTORY $\boldsymbol{a n d}$
INFORMATION


This Magazine Section forms a part of our paper twice a month. Every article is written especially for it, and does not appear elsewhere First American Slaver Convicted as a Pirate.

A
LL along the New England coast
one hears of the buried treasure of Captain Kidd, king of pirates. As the old men, in the twilight time of life, er, tried and convicted under the law
gather on the shore and tell strange 1823 as a pirate-the first slave gather on the shore and tell strange 1823 as a pirate-the first slave trader with bated breath, of the slaver, Captain Nat Gordon, of Portland, and his tragic history.
Nat Gordon was a Maine man born in Portland. Down on York street his home in mid-ocean, where pirates landed now made at that period when the privateers still stands, one of the older Portland and again to divide their treasure; where chant vessels. This was the time when residences, built in 1740 by the father of slavers sometimes plashed their oars West India waters swarmed with pirates the slaver captain. Three stories high, it through shallow waters to the shore. In and slavers; and, when it suited them,
was one of the largest square-roofed those times there was easy interchange it was an easy matter for the slaver to houses of its day and, when built, was of trade to suit the exigencies of the case, turn pirate and the pirate, slaver. Such called one of the finest in the city. It and the slaver made brave showing with a state of affairs caused the passage of
has three chimneys, and the roof pitches his more rapacious brethren for his share the bill that became the act of has three chimneys, and the roof pitches his more rapacious brethren for his share the bill that became the act of 1820 .
four ways, running to a point at the top. of the booty looted from some foreign- The sections of this act pertaining McLellan was the architect, a man who bound ship of commerce. No absolute the slave trade show how the nation felt built many of Portland's old-time home- proof of such a circumstance in Captain at that time in regard to the abominable
steads. First owned by the Gordons, the Nat's career häs come down through the traffic. The bill became an steads. First owned by the Gordons, the Nat's career has come down through the traffic. The bill became an act on May
house became the property of Thomas years, but there are stories of rich silks 5 , 1820, and on May 12 a resolution passhouse became the property of Thomas years, but there are stories of rich silks 5, 1820, and on May 12 a resolution pass-
Fagan in 1879 and now belongs to J. R. and jewels, of gold cups and vases found ed the House "That the President of the With its deep fireplaces, its richly carv- It was in the summer season of 1860 Unith States be requested to negotiate
Withe Governments where Ministers and its fine finish, the house is a very ana and completed an outfit for the slave of the United States are or shall be acgood type of colonial style. All the hinges trade that he had bought in New York. tire and immediate abolition of the slave and bolts on the doors are of rolled gold the three slave voyages made by him trade,
A finely carved piece workmanship was the par-
lor mantel, and Thomas Fagan gave it to a citizen prominent in Portland hiser was presented to the same man. All the finish the house, the the finish o runs of the stairways rails, the balustrades mahogany The blackest period of the of the American slave trat and the dreadful fate of Captain Nathaniel Gordon marked the beginning of the end of the infamous traffic. was a land home he heard much of the slave trade, of the adventurous life of the slavbarracoon; and it is of the able that the romance he tale wrought on his youthful imagination long commercial value.
The horrors of the slave middle passagedy of the midale passage, were not lived in the square-roofed
 house on York street. ompanionable lad of lika and profit, and he was anxious for another was even then a leader young Gordon He sailed forty-five miles up the Congo was even then a leader. Quick to learn, into the interior, where he discharged a older he realized that no trade paid larg- ready for her return voyage with Erie returns on its investments than that cargo of slaves which he took on board but he had powerful friends condemned the slaver. From the time the unnamed Dutch the seventh day of August; the slaves Later, first came up there was a mis trial trader of 1619 sailed up the river to were packed 'tween decks and Captain power and new administration came in Entering the yard the city prison. Jamestown with a cargo of slaves on Nat sailed for Cuba. Eight hundred and Delafield Smith, was in int attorney, E. muskets with ball eartridges and fixed board, to the days of Abraham Lincoln ninety slaves he took with him, and of never compromised by juggling with the gering in the neighborhood of the pris and the suppression of the nefarious traf- these only 172 were men; 106 were women law. Gordon's second trial was Novem- slunk away; there was no att prison fic, the slave trade was a disgrace to the and the rest were boys and girls. It was Nat old Nat Gordon did not hesitate to share the The Erie, sailing with her dreadful ca profits of the business and he followed go, was seen and captured by the Mothe example of men even better born hican, United States warship. The slaves Just how Nat Gordon bere taken to Liberia, and Gordon and is not known, but it is probable that for trial. while pursuing a legitimate business as As the ship had been taken with the commander of a ship, he fell in with men slaves on board, the evidence was plain traffic. Young and ambitious, he grew tion in October of that same year. Al every year more covetous, and it was though she measured but 500 tons, sh the Erie that he was captured as a slav- a staunchly built ship.
ber 6, 1861. Ex-Judge Dean and P. J. rescue by mob
Joachimson, both men experienced in Not until that
cases of this nature, defended him. Judge give up hopes morning did Captain Nat Nelson presided. A jury was obtained in conveyed, secretly, to him a As was customary at strychnine and this he managed to swal-
 The slave that Gordon was a passenger. lows. The doctors saved him and he was est, always ages some foreigner, sels were boarded by alien ships, they prisoner if he had anything to say. In At first people failed to take much in- able speech: Gordon made this remarkterest in the trial. The Civil war was "My
n and as at Gordon's first trial he had decured a disagreement of the jury, acwas almost certain laws of precedent he was almost certain to go free again. So the people read the war news and there It was on Noctators in the court room. ing, when Judge harge ired. After being out but twe jury re utes they came min"Guilty."
Captain Nat was apparently unmoved and the few peone in the court room verdict in matter-of-fact fashion It did not dawn on them that they had assisted fter making of history. But next day New the verdict appeared in the papers, difference. Motions for attitude of in lenied, and when, on tood November 30, Captain Nat Gordon ourt and heard his sentence, the crowded to see the first American slave Captain as pirate.
$\qquad$ as put
$\qquad$ hours of the houn and 7, 1862, hanged of February until dead." nec Nat Gordon's friends made the greatest efforts to save
him. When, on February 7, news came of a two weeks
respite by respite by the President, it
was thought he had comMarshal Murray undeceived Gordon as to this, telling hope. On the last day of sent word that the governor peal to the President, anrequested that the execuanswer came. Marshal Murray told him it had been that no telegram from any
source should interfere with the demands of justice. cution dawned, a clear, cold
February day. There had had vowed to breal into jail was a nation's history, and before
that negroes had been hangment was prepared. It But Gordon should die, that no保 ng
fault to find with the treatment I have though it was, this speech was untrue, self, worthy once more to enter his fathreceived from the marshal and his dep- for when the stenographic report of the
uty, but any public man who will get up trial was read carefully it, was found in open court and say to the jury, 'If you that the distriet attorney's words con- But he did not go to the altar. Instead conviet this prisoner I will be the first tained nothing to confirm Gordon's state- the last out just as they were singing man to sign a petition for his pardon.' ment. One learns, from the record of the himself to stay He did not dare trust and will then go to the Executive to preand will then go to the Executive to preman who will do anything to promote his own ends, I do not care what people may say.

Made in the shadow of the gallows

## Merle Dunsmore's Sacrifice.

By PEARLE WHITE M'COWAN.

The great convention hall was packed
to its utmost. Men stood on tiptoes in to its utmost. Men stood on tiptoes in a glimpse of the fair young singer, whose tender rendition of
winning their hearts.
With rare insight for one so young, she has instinctively known that men still
love the old songs best, and as her liquid warbling voice trailed out in,
"Saviour thy dying love, Thou gavest me, Nor should I aught withhold, Dear Lord, men held their breath for very fear losing
tune.

Merle Dunsmore was not a greet singer. She was one of those who know their
limitations and do not aspire to fame. But unto her it had been given to touch men's hearts by the simple gift of hymn
singing. And now, thrilled by the enthusinging. And now, thrilled by the enthu-
siasm of hundreds, and by the sight of the little blue and gold badges scattered all over the room, and the uplift of in-
spiring words and sermons, she sang with an abandon and joy that captivated all her hearers.
The song finished, Merle's face still glowed with exultation and happiness. and it would have needed one far less acute than she not to have read the si
lent anoroval in the upturned faces o that vast audience
More than this, she counted herself lucky girl just to be able to be here. It some sacrifice, but the result was proving repaid for the efforts put forth and all the former self denial. The whole convention had been a glorious treat, each session an uplift, and the best was still On this, the last evening, Madame L-
famed the world over for her wonderfu vocal talents, had consented to grace the oceasion with her presence, and two
solos. It was for this that Merle had really come. For years Madame Lhad been her idol in the musical world
Almost all her life she had longed to hear Almost all her life she had longed to hear
that great prima donna, and this was that great prima opportunity-her dream was about to be fulfilled. It was almost too good to be true.
But listen, the chairman is speaking flow have already arranged for two overcome to us that down on Water street there is a little mission that has been y good thing because they felt it their duty to be there. Can we not send a great convention, to take charge of their
little meeting, and leave those workers free this once to come and take advantage of the uplift and inspiration that
they will receive here? We'd like about two speakers. Who'll be the ones to A moment of silence, and then the one who had made the principal address of
the afterneon arose. "I'll go," he said simply, and the audience, spurred by religious fervor, clapped. Another mo-
ment, and a young man over in a corner arose. He, too, would go, and again Then the chairma
Then the ehairman made another re-
quest. "Who will go and sing for quest. "Who will go and sing for
them?"' and Merle felt a sudden tighten-
ing of her ing of her throat strings. Who would do
that? What singer could be induced to leave Convention Hall that night when there was such a musical treat in store? She looked around over the vast con-
course of faces. No one volunteered. The seconds ticked themselves off-and still no one offered to go. A full minute rolled
away into space. "Perhaps they can get away into space. "Perhaps they can get along without a singer," began the chair-
man doubtfully, and then-Merle arose.

She felt her companion's detaining hand disappointment. And yet she of keen sure consciousness that this was her "offering" which she had no right to withhold, was thundering itself into her very being. The applause of the people meant very little to her now. She could have
eried in vexation and disappointment. Yet she knew that she must go.
The meeting over, the reproaches of
her comrades, who knew what she had her comrades, who knew what she had
sacrificed to come, and how it meant the abandoning of her long cherished and almost fulfilled dream, rallied her senses and brought her to an unyielding defense
of her act. When they suggested that of her act. When they suggested that
there was still time to change, she met tion with firmness. Already the sensa-
tion doing was making itself ion of well doing was making itself felt
ner heart. That night a little group picked its way Water street and made its way toward the mission. There were the two speakparty who, seeing the girl's persistence and not being quite willing to let her go tion of two strangers, had volunteered
haperon her.
Chance remarks showed that some o pointed at missing the evening session the convention. Nevertheless they were
all determined to make this little service in Water Street Mission one to be re membered.
When they reached the doors they of the expected coming of some "ubis bugs" (in Water street parlance) had quickly sped and drawn an unusual atFrom the first the meeting was a success. The enthusiasm of the big conven the wad spread even to this little out of
mission. The congregation sang with all the gusto and lustiness of the illiterate. The afternoon convention speaker outdid himself in forceful, logical welght. The young man followed with pleadings and entreaties that brought strong men to the altar. And then Merle sang-another of those old sweet songs that everybody loves. A newer hymn would have failed to reach Water street hearts that night, but "There Were Ninety and Nine" brought tears to many an
eye. Clear on through the whole five verses, ringing in the pathos, and the glad cry "Rejoice I have found my sheep! And the angels echoed round the throne
Rejoice, for the Lord brings back his own." Merle sang and, singing, failed to not poorly lighted room, which hungrily devoured each word and tone and look. She could not know how one young
man's heart was touched to the breaking point. How the old hymn, sung by this fair-faced singer, brought back a flood of memories that hurt and lashed and
softened a heart made harsh by eriticism and blame and a too intimate contact with an unkind world, until he yearned with a great yearning for the home and
love that he had spurned. It brought love that he had spurned. It brought
back memories of a mother tenderly pleading, with tears in her eyes, for him pleading, with tears in her eyes, for him
to mend his ways; and of a father, justly angry, and unforgiving, and a little fairangry, and unforgiving, and a little fair-
haired sister who had loved and clung to him despite his wild and headstrong ways. And he had rejected it all. "Sold his would have given his life, and all its unalluring prospects, to have been back dear ones just for one little day. Bitterly he upbraided himself, as he had done many times before, finally resolving to begin that night to make a man of him- ment. One learns, from the record of the himself to stay longer. Slipped out and started for his barren little room a few
blocks away, determined not to give way blocks away, determined not to give way
to the longing that possessed him. But to the longing that possessed him. But
before he had reached his rooming house, that dominating yearning in his heart A few moments later the little delega tion from the convention, flushed with the suecess of the meeting, was wending panion, lagging a little way behind the approaching. Turning aside a bit for the hurrying pedestrian to pass, they were
surprised and half affrighted when he wheeled about abruptly and faced them. The older woman, annoyed and suspicious, would have ignored the strangar's outstretched hand and hurried Merle along to join their escorts, walking on ahead, engrossed in their own conversa-
tion, and as yet unaware of their companions' detention, the quality of his speech made her pause "Don't you know me?"' he asked, ad ressing Merle. "Don't-you-know nd his voice was husky and full of feelglad cry, and breaking from her companion's restraining hold she clasped his hand in both of hers and leaned eagerly exultantly. "Oh, Ben! My Brot breathed while the quick tears streamed down both their cheeks. "Is it-can it be-you-
really you?" giving him a glad little hake to assure herself. "Yes, Merle-it's me," he answered self known to you. But I couldn't myjust couldn't help it. I wanted-to she finished for him softly, "and so she finished for him softly, "and so
shall." And when he would have' drawn away

## PLOWING THE FIELDS FOR CORN.

## hey're br charles h. meiers <br> of plowing the fields, and the smell

 Turned up to the balmy air,Makes life seem fresh and toil seem worth
Far more than a load of care.
When I hear the plowman's voice I sigh
For the place
For the place where I was bore I sigh
And I long for the peace that I knew
When $I$ as plowing the fields for corn.
But I left the fields with their healthful And I've journeyed far since then;
nd I never toiled upon the farm And I never toiled upon the farm
As I've toiled with a writer's pen.
As I've toiled with a writer's pen.
And oft when the springtime breezes I go forth in the early morn
oo view the scenes that I used to know
When plowing the fields for corn.
Though I find much joy as the years
In the life that I'm living now,
And wish I might go and plow;
Three joys that no man dares scornIn the farmer's life. I might worry less,
Were I plowing the fields for corn.

## THE OLD FARM.

## BY MILDRED M. NORTH

When the grass springtimeWhen each day I look and listen
For the blue-bird and the wren
In dauntless pussy-willows,
In sleeping-bags of fur,
re calling from their lookouts
That sap is all astir.
And then the fruit trees blossom, My longing eyes to greet,
With wealth of perfumed beauty
Whose life is all too fleet.
love the farm in summer-
Its fields of new-mown hay,
he busy bees, sweet-laden,
The skies at close of day.
love its shady forests,
And wave-rocked
And wave-rocked seas of grain,
The shight blue skies and sunshine,
s dew-gemmed early
The twilights, eool and late,
hen some bird, half-awakening
Calls softly to its mate
love the farm in autumn-
Its leaves of red and gold,
Preparing for the cold;
he apple trees low-laden,
The cricket choir well hid
nd somewhere in the darkne
love hoarse-voiced katydi
pleading his unworthiness, she clung to troducing him to her companions, too truthfully glad at the unlooked-for reunion to be annoyed by his poverty-stricken appearance, all the time pouring out her
story of the loved ones at story of the loved ones at home; of the
father who had long since forgiven, and the mother had long since forgiven, and the mother whose heart was breaking for the return of her son, finally adding little fair-haired sister who sorrowing, his spite of his wild ways. "And loved him in spite of his wild ways. "And only think,"
she exulted, "'I'd never have found you at all if I hadn't gone down to that little mission. Oh, but I'm glad-glad," squeezwholly repentant, and truly humbled by the unlooked-for tenderness of her reception, bowed his head and inwardly prayed, "God make me worthy."
And you are going home with me, considanned, when their companions had le wately withdrawn themselves a litmurred and pleaded that when hede"make good," she still urge "ust first come home first. Mother has waited long enough. 'Twould break her heart if you well as he come-and father-father's not as well as he used to be, Ben. You can make good afterward. We'll all help ing and forgiving you now. That's the first and forgiving you now. That's the downward glance at his shabby hesitating "Never mind those," she begged, "I have Never mind those," She begged, "I have first thing in the morning; tonight you'll stay at the hotel with me, and we'll go right now and send a telegram to mother and father. We mustn't keep them waitsuch a minute longer than necessary for And when hew had consented, and the message had gone on its way, even the very wires sang joyously, for though they only carried a few simple little words. yet they bore wonderful rejoicing to that old home, because a son that was lost was returning.

All gold and purple haze,
ing Midas' touches showing
Down all the woodland ways.
love the farm in winter-
Shut in from all the world.
utside the falling snowflakes
By icy winds are whirled.
love the ring of sleighbells,
love the ring of sleighbel
The snowy hillsides set
Vith hosts of flashing jewels-
King Winter's coronet.
Shut in with those who love us
We have no wish to roam.
Tis then we prove most truly
The dearest place is home.

## ngreen of spring or summer In flame-hued

In flame-hued robes of fall,
whe farm snowy garments,
Lady (at the jeweler's)-Is this dia

## ond genuine?

Jeweler-As genuine as your own hair Lady-Ahem-let me see something .

Mr. Jawback-My dear, I was one o Mre first to leave.
Mrs. Jawbaek-Oh, you always say Mr. Jawback-I can prove it this time. Look out in the hall and see the beauti

## YOU HAVE THE OPPORTUNITY

of getting one of the beautiful six-page Michigan Farmer Wall Charts for only 30 c , postpaid, if you send your order at It is the finest collection of charts ever put together. Contains a map of Michigan, showing congressional districts, coun-
ties, railways, etc., the latest 1910 census ties, railways, etc., the latest 1910 census showing the plates, showing he ane cow, sheep, hog and fowls, and giving the and bone A tratise on organ, muscle the best authorities treach animal by mon diseases of farm animals,
the world, showing steamship lines map of the United States, flags of all map rulers of the world our presidents, and several other features too numerous to mention.
These charts have been sold mostly for $\$ 1.00$ or $\$ 1.50$. They will decorate and instruct in any home or office We offer them at this price to quickly wet rid of them and after our present stock is exhausted no more can be had. Remember the price is only 30 c , while they last. Send your name to the Michigan Farmer, Detroit, Mich.-Adv.

LITTLE FARM FABLES.

## by aunt quillita.

Getting There.
A herd of cattle having learned that Farmer Wiseman had thrown his meadows open for the summer and had invited all stock for miles around to come in and get free pasture, a few of the
to discussing their good fortune.
"While I am thankful for the privilege," concluded Shorthorns, "I can't understand why he should have done this thing. Not another farmer about here would have thought of being so liberal, though their pastures are much finer and more numerous."
"Why, my dear greenhorn," replied Sir all. He is simply an act of charity at benefit. Wants to fertilize for his own What is your opinion Hoofit?"
"I have neither opinions nor curiosity Thave neither opinions nor curiosity 'My chief interest is centered on getting here. Wouldn't give a straw for the motive. As the bars are to be closed by sunrise tomorrow, and those first on hand are to have their pick of the lots, it seems to me that all of us should be thinking about getting there, and getting there on time."
During this discussion most of the herd had been dozing or quietly chewing the cud, and soon after Shorthorns and Sir Galloway joined them.
Hooft fell to ruminating-in a wayalso. "Get there," thought he, "that is my watchword, and get there I will. Not only are my own advantage and reputaEverybody knows that Everybody knows that 1 come from the country. Ambition has always been our motto. Our family escutcheon is lost and have been selected to design another. One thing is certain. 'Get there' will be emblazoned upon it and stand forth in letters that will challenge the admiration of the world.
So all night long while the stars circled above him, bringing midnight, then the wee small hours, then cock-crow, and finally the first hint of dawn, Hoofit stood with head above the enclosure intent on
his plans of getting there.
This was in the day of the old worm fence, and long before midnight he had the rails displaced in order to facilitate the final break for the highway. When at last a cloud of dust heralded the approach of a long line of grass-seekflance, Hoofit tossed aside all remaining obstacles and with one bound plunged into the midst of the caravan , lunge nto the midst of the caravan
On his way to the front he trampled on many of the younger and weaker members of the company, leaving them to die smashed the ribs of stronger legs and even gored the sides of others until the blood ran down in deep red channels to the ground.
At last Farmer Wiseman's premises were reached; the bars were still down and, with one wild leap and a snort o victory, Hoofit landed inside of the green Eldorado.
Selecting a retired lot through which a clear creek ran, and believing himslf to be the sole occupant thereof, he began reviewing his success and chuckling thereat.
Presently a serious countenance peered at him through a clump of bushes. It was the face of a venerable friend whom he had long supposed dead.
"We have a choice lot indeed," began old Durham, "but having heard your methods of getting here I can't say tha "Years I attended a while they were tying the state fair, and While they were tying the blue ribbon on they had just heard The them speech Success, and the speaker had closed by quoting these words: If, in getting there, as you call it, you leave your principles behind you, the best part of you does not get there.'
"Now, we are not supposed to possess principles, but we have plenty of instinets and, although you are good hoofs, horns, and hide-that is all. The fo part of you was left in the race Do you call that getting here?"
individual

## "Well, you are all right except as

 your head," commented the listener. "How's that?"the part you, think with

## No-Rim-Cut Tires 10\% Oversize

## Our 11\% Reduction

On April 1st, we reduced our prices on No-Rim-Cut tires 11 per cent, on the average.

This was partly due to lower cost of rubber, partly to multiplied output.

Our policy is always to give you every cent we save. To keep our profits down to $8 \frac{1}{2}$ per cent.

That is one reason why Goodyear tires far outsell all others.

## Rubber Prices

Cultivated rubber is becoming so plentiful as to force down the price of Para.
For the twelve months ending March 31st, we paid on the average $\$ 1.09$ per pound. On March 31st, the price of rubber was 88 cents per pound.
On the other hand, fabrics, in the same time, advanced 15 per cent. Labor cost materially advanced.
So, on tires in general, lower cost of rubber has led to no large reduction.

## Factory Cost

But Goodyear sales have doubled over and over. Immense new factories have been completed, with the most modern equipment.
Our output is the largest in the world. In motor tires it is nearly ten times larger than three years ago.
It was this multiplied output, in main part, per cent reduction.

## Our Profits

At the end of each year we advertise our profits. This is to assure you that in Goodyear tires you get all the value possible.
In times past this profit has averaged about $81 / 2$ per cent. And this reduction, in our opinion, keeps it that low this year.
Under this policy, and with our vast output, it will never be possible to sell equal tires for less than Goodyear prices.

## Cost Per Mile

There will always be tires selling under Goodyears, until all learn that lesser tires don't pay. Tires can be made at half the Goodyear cost, by the use of cheap com. positions.

# GOOD GEAR 

## No-Rim-Cut Tires <br> With or Without Non-Skid Treads

But we shall see that you never in any tire, get lower cost per mile. And that's the only right way to figure. We shall never offer, at
any price, less than the utmost in any pri

## No Extra Cost

No-Rim-Cut tires, since this reduction, cost no more than any tandard make of clinchers.
These tires never rim-cut. And 23 per cent of all old-type tires are uined in that way
In air capacity, No-Rim-Cut tires are 10 per cent larger than clinchers. And that, with the average car, adds 25 per cent to the ire mileage.
Yet these new-type tires, with all their advantages, cost no more than old-type tires without them. of motor car owners of motor car owners
have come to No-RimCut tires.
Your tire upkeep will be immen lowere when you adopt them Write for the Good-
year Tire Book-14thyear Tire Book-14th-
year edition. It tells all known ways to economize on tires.

THE GOODYEAR TIRE \& RUBBER COMPANY, AKRON, OHIO
Branches and Agencies in 103 Principal Cities
More Service Stations Than Any Other Tire essories and Repair Outfits
Main Canadian Office, Toronto, Ont.-Canadian Factory, Bowmanville, Ont.



Biggest'Thing in the Clock Business Big Ben is the biggest thing today
in the alarm clock business. He is only two years and a half old. but he's already getting more work
from the: States than any clock alive Inttwo years and a half time, 18,000 jewelers- $70 \%$ of the total number of
United States watchmakers - have and a half families leave it to him to call them up in the morning. Two million and a half families use him all day long to tell the right time by He is really two good clocks in one-
a crackerjack of a timekeeper and a crackerjack of an alarm. Big Ben stands seven inches
He tall. He is triple nickel-plated and wears an
inner vest of steel that insures him inner vest of stel that insures him
for life, His big, bold figures and
tis handing light. His large, comfortable keys almost wind themselves. He rings five minutes steadily or ten
intermittently. If he is oiled every intermittently. If he is oiled every
other year, there is no telling how long He's sold by 18,000 watchmakers. His
price is $\$ 2.50$ anywhere in the states. $\$$ \$3.00 anywhere in Canada. If you can't
 BIG BEN


## THE MAJESTIC VACUUM CLEANER and SWEEPER

We send it on thil. You are to expense if not pleased. Will place

but one in your township at whole. sale price to agents. Let us tell
you how to pay for one by helping a little. Be the first, write todang
Give name of county and town.
I. A. BUELL, State Agent, HIGHLAND, MICHIGAN.

## Women and Her Needs.

At Home and Elsewhere.

## This Will Help You Select Your Paper.

FOR some reason best understood by leather and grass cloth for dining-rooms, woman herself the sound of the and the light papers in stripes and colo hrst robin and the glimpse of the nial effects for bed-rooms. If your celithe smell of strong soapsuds, paint, var- and a half feet, use a striped paper to nish and paste. Nature sends her March give the appearance of height. The drop winds and April showers to sweep and ceiling with the picture molding a foot
wash the old world clean, and we, being and a half down the wall is entirely out. wash the old world clean, and we, being and a half down the wall is entirely out.
naturally imitative, can not help copying The molding must go to the ceiling and her. So we make clean and fresh our a crown or cut out border used if you dwellings. gs.
of $u s$ Most of us are going to paper one or Now a crown and a cut out border ar more rooms, and those who are not going two different things. A cut out border
to paper now will want to before the is sold by the yard, the price ranging to paper now will want to before the is sold by the yard, the price ranging
summer is over. There are certain rules trom eight cents to 20 cents for livingsummer is over. There are certain rules from eight cents to 20 cents for living-
which we have read and heard so often rooms, while crowns are individual dewhich we have read and heard so often rooms, while crowns are indivilual de-
that we all know by heart, such as not signs which are made to exactly fit the putting gray or blue paper in a north design at the top of your strip of wall room. We have been told so often that paper, and cost about is cents apiece
those rooms which get little sunlight need Crowns are usually used with paneled pathose rooms which get little sunight need Crowns are usuall used wirh paneled good
paper that suggests the sun, such as yel- per, while the cut out borders are good low or tan or perhaps red, while cold col- with paneled paper or plain effects. The


Cut-Out Borders Frame the Walls.
ors, such as gray and blue, belong in cut out border is used frequently at the sunny rooms, that we have the lesson bottom of the room as well as at the top, thoroughly learned. The paper man gave when a plain paper is used, and add
me two or three hints, however, which greatly to the beauty of the room. I were new to me at least, about the putting it on at the bottom, in a smal our furniture to the best advantage, begin again on the other side. Some conOne of them is, do not use a tan
yellow paper in a room with your brass across the top of windows and doors, but to a better advantage, while the tan or done. If the room is large, say $16 \times 16$ or brown will make an ideal background for $14 \times 20$, or some such size, it could stand mahogany furniture. Light green is also the border continued. if we stopped to think of the colors which border, or a "liner." A liner is a runthings without being told, but most of borders are usually floral. When the us have the habit of picking out the pa- room is paneled, the border or liner is per we consider pretty, or that we can simply run around the outside edge of all
afford to buy, without regard to our fur- four walls, not down each strip of paper niture.
If you are to paper, stop and consider as was done for awhile in dining-rooms your room, its exposure, its height, the break in the dining-room wall is fre color of your rug and the sort of furni- quently made with a liner. A beautiful ture. Then choose the color which will dining-room can be secured by using an
fit. Tans and yellows are very popular imitation leather for the lower part of this spring for living-rooms, imitation the wall, say five and a half feet or six

## CLEARED AWAY

Pr porn troubles always seem
Our own troubles always seem more severe than any others. But when a man is unable to eat even a light breakfast, for years, without
It is small wonder he likes to tell of ood which cleared away the troubles. I am glad of the opportunity to tell me," good Grape-Nuts has "Fone for eat even a light breakfast without great suffering.
After eating I would suddenly be seized with an attack of colic and vomiting. This would be followed by headlast a misery that would sometimes could har mo, leaving me so weak
ould hardly sit up or walk.
Since I began to eat Grape-Nuts I have been free from the old troubles. usually eat Grape-Nuts one or more times meal Now I ean bat altho want without trouble "When I began
was way under weigh 30 pounds more than I ever weighed in my life, and I am glad to speak of the food that has worked the change." Name given by Postum Co., Battle Creek, Mich. Read the little booklet, "The Reason."
Ever read the above letter? A new one appears from time to and full of human interest. We Pay For Your Help When you have the chance to easily
make some money, won't you take it? It will mean money in your pocket if
we can provide your friends with our unusual combination insurance for non-us-
ers of alcoholic liquors. This insurance
pays an income during disability kind of accident, in addition to insuring
the life for a substantial sum. Rates are lower than usually paid for life insurance
lolone. This is the only policy in existalone. This is the only policy in exist-
ence giving special low rates to temper-

## Here Is Our Offer

Just send us the names of a few of
your friends who ought to have this kind
of protection and we will present the adof protection and we will present the ad-
vantages of the insurance to them, with-
out using your name unless permitted out using your name unless permitted.
When the policy is issued and paid for, That's fair, isn't it, and worth a few
minutes of your time to get your list in This is a case where promptness will pay, Write to-day AMERICAN TEMPERANGE LIFE INSURANCE ASSOCIATION
253 Broadway. Dept. 40-A. Now York

| ⑰5 QUALITY PAINT |  |
| :---: | :---: |
| WILSONS DIRECT TO YOU \$125 |  |
| ARED | Save 50c on Every CalIon of High Grade Paint |
| PAINT | T ${ }^{\text {T }}$ The Mroduce ichigan tarmer we will |
|  | send you our regular \$1.75 | WILSON'S PREPARED PAINT Ready For only \$1.25 per gallon in lots of six pallons

and over. Froloht Propald (East of the Misisigipi.)
We are manufacturers selling direet to the con. sumer. Satisfaction positively graaranteed cod Drop
a postal for informaton about our special trial
a offer and handsome ${ }^{35}$ color card.
The Wilson Paint \& Glass Co. 548 Main Street, CIncinnati, 0
Reference-First National Bank of Norwood,
"When the Juice is in the Apple" MOUNT GILEAD






feet from the floor, and a Tiffany tapes- of spending your money for "dope," take
try for the upper wall, with monizing in color with both papers sepa- tell you what is wrong with your child. rating them. Of course, the upper part Always remember that a healthy baby is will be lighter than the lower and the a happy one, and the reverse is equally celling still lighter. These Tiffany papers true. A cross baby is not well.
are very beautiful. The pattern is indishon They come in gray, tans, greens, in fact, all colors. But while they are beautiful and popular they do not give as good service as a plain paper.
If you wish a green dining-room, the mitation leather would, of course, be in brown or russet, you will do well to and Tiffany or oat or he lowe plon paper for the top. Don't choose a grape border, though, even if the dealer does dise it. Get a cut out floral border or conventional design. Grapes were good seven years ago, and while some dealers are still showing them, they were worn out long ago.
ittehen. It will get will not paper your chen. It will get two or three coats can not paint, by all means get a glazed paper. Yout, by all means set a 35 cent a roll. They will not absorb steam and moisture and can be washed like paint o a The bedrooms are easily cared for. Light colors, green, French blue or
French pink, grays or yellows, are any of them good. Do not choose a floral de sign, however, but rather a stripe or crechrysanthemums the size of cabband went out when cut out borders came in as you can readily imagine the two do not go well together. of course, cre-
tonne papers have flowers in them, but they are tiny posies arranged in stripes, never sprawled all over the paper. Pink and blue fade, but as all paper does in you choose on that account.
Nursery papers, that is, papers with had a short vogue for children's rooms, until it was found that the children really didn't care much for them. Most chilfor their walls, and these never showed up well against the nursery paper.

HOME QUERIES.
Household Editor:-Stnce living where frow any hoth I ever saw. All I Pever ever
som benore were Iong ones, called feather
sowth. These are small and round. Don't
moter moth. These are small and round. Don't
know if it is what is alled Buffalo bug
or not. I find it everywhere, not only or not. I find it everywhere, not ouly
where furs and flannels are, but where
there are none. In dresser drawers and
whe where are none there may be dresser drawers and
ed. Ittle dust collect-
find nothing I am sure has been eaten by them unless once in a while a
break in in carpets is caused break in carpets is caused by them. Still
that may be from other causes. Can any-
one tell me what they are and what to
do to Take all carpets and rugs out doors and beat thoroughly. Then drench with gasoline and roll tightly. Place in an which unroll and air thoroughly. In the meantime wash all floors and woodwork red pepper into all crevices. Sprinkle burnt alum in all drawers and in bookcases, as the moths eat the bindings off your carpets and rugs put tar paper unas these moths breed rapidly in warm rid of if they get a good start. Household Editor:-Would you advise
putting the baby out doors to sleep? By all means, in fair weather. And in bad weather he should always sleep where he gets plenty of fresh alr. The old noand the baby constantly in an atmosphere is a dangerous one. Household Editor:-How should lunch-
eon table be laid, with a cloth or doilies? -Mary B.
Doilies are preferable for luncheon, if you have a pretty polished table. If the table is old or scarred I would use the Household Editor:-Would you baby soothing syrup or things to quiet it always gave them to us and they didn't Times have changed a great deal since your mother brought you up, and modern thought has changed regarding soothing syrups. It is now known that a healthy nd will not be fretrul and wakeful, If your baby is cross and he really needs. he is not in a normal condition. Instead

Household Editor:-How can I use up You
Simmer might make baked bean soup. minutes, using cup in boiling water te minutes, using cup for cup. Then force through a strainer, add as many cups of son with salt, pepper and butter, boil well and serve.

## LETTER Box.

How shall we Read?
enjoy reading the Practical Science, The Nomid System, The Labor Problem Solv Queries. How shall we read? With thought. Stop and think, we must to reason out things. The saying, "A things come to him who waits," I never things come to him who hustles while he aits," I have proven true
Take, for instance, Practical Science ology, Kellog's Laws of Health, and sim llary, Kellog's Laws of Health, and sim plish in cood health by thought what we read,
" says one mother, "I have n ing think on these things. Do not wait to get sick but practice these proven sayings, not only in eating and drinking but also in dress. In the latest styles in to brace against our Michigan winters, Just think, to wear slippers in winter, is it reasonable? And our state supports those who transgress the laws of practical science
There is enough reading to teach all how to prevent, or not contract, tuberculosis and, if you please, many other diseases. Prevention is better than cure any ing for. If you are looking for something on health write the State Department of Health at Lansing, Mich.-L. F.

FASHIONS BY MAY MANTON
Our large Fashion Book-containing 92 pages illustrating over 700 of the season's
latest styles, and devoting several pages to embroidery designs, will be sent to any address on receipt of 10 cents.

$7651-$ Fancy waist, 34 to 40 bus
or without loose panier and isett
No bust. With cutaway or straight fronts.
No. 7272 - Semi-princess dress for miss and sma!! women, 14,16 and 18 years. high neck or shawl collar and opers neck No long or elbow sleeves and small women, 16 shirt for misse waist linot tunic, with high or natura No. 7236 -Three-piece skirt, 22 to 32 waist. With round or square corners a
slde-front, with high or natural wais The above patterns will be mailed to the Miehigan Farmer on receipt of cents for each.


## Preserving, a Pleasure -with Parowax

Dip top of jars and catsup botthes in melted Parowax. Or pou of contents of each jelly glass. Re sult-a perfect, air-tight, mouldproof seal that keeps canned vege tables, catsup, chow-chow, pre serves and jellies indefinitely

## No Tins or Tops Needed

It is even simpler than it sounds It is as cheap as it is easy. No bother with tops that will not fit.
Not even paper covers need be Not even paper covers need b used. The direct contact of Paro wax with the jelly cannot affect its Parowax is tast less. It is so thoroughly harmles

STANDARD OIL COMPANY, Chicago, III.
that it can be chewed like food Indispensable in the Laundry
Parowax cleans and whitens Park in the wash. It imparts a rautiful Anish Parowax has a hundred other household uses. No home should be without it. Your druggist and grocer both

## Mrs. Rorer's Recipe Book

 Ask your dealer for this valuable nary expert. Or send direct to us.For That Picnic -to ensure complete success take along a case of

THE COCA-COLA COMPANY, Atlanta, Ga

## Used Furniture

## 号

 - -2 . Ranges, Ice-Boxes, Chairs, Bureais, Bookcases, Desks, Couches, Tables, Stoves,Everything Cleaned And Polished And Guaranteed Absolutely Sanitary
your selection, or send us cash for the price you list from which you can make to pay and describe fukly
what you want. Wewill select the best bargain we have for the money, ship it to youl
Please You or Money Back want to ship their furniture, people who are breaking up housekeeping or movin into smaler homes, and from the mammoth storage warehouses, which have many and put them in perfect order before offering for sale. References: North West State Bank, Chicago. If you need any furniture, investigate our bargains before
you buy save money and be better pleased, for our goods have stood the test of use
and good woods improve witt
PIONEER BARGAIN HOUSE
2102 North Ave.
Chicago, Illinois

## Markets.

GRAINS:AND SEEDS.



## FLOUR AND FEEDS.

Flour.-Jobbing lots in $1 / 8$ paper sacks
are selling on the Detroit market per 196 Flour.-Jobbing lots in $1 / 8$ paper sacks
are selling on the Detroit market per 196
lbs. as follows: Best patent, $\$ 5.70$; sec-
ond, $\$ .20$ straight, $\$ 5$ st spring patent,
$\$ 5.10$ rye flour, $\$ 4.60$ per bbl,
Feed.-Detroit jobbing prices in 100-Feed.-Detroit jobbing prices in $100-$
sacks are as follows: Bran, $\$ 21$;
coarse middlings, $\$ 21$, fine middlings, $\$ 27$;
cracked corn, $\$ 25$; coarse corn meal, cracked corn, $\$ 25 ;$ coarse corn meal,
$\$ 22.50 ;$ corn and oat chop, $\$ 21$ per ton.
Hay. All grades rule steady with last week. Carlots on track at
are: No. timothy, $\$ 14.50 @ 15 ;$
$\$ 12 @ 13 ;$ Detroit
light mixed, $\$ 13.50 @ 14 ;$ Chicago.-Timothy grades are higher,
while all other kinds continue steady.
Choice timothy, $\$ 17 @ 17.50$ per ton: No. $\$ 15 @ 16$; No. 2 and No. 1 mixed, $\$ 13 @ 14$,
No. 3 and No. 2 mixed, $\$ 8(@ 12 ;$ clover
$\$ 7.50 @ 11$; alfalfa. choice, $\$ 16 @ 17 ;$ do. No. $\$ 7.50 @ 11 ;$ alfalfa, choice, $\$ 16 @ 17$; do. No
$1, \$ 14 @ 15 ;$ do. No. $2, \$ 11 @ 13$ per ton.
Straw.-Steady. Carlot prices on whea Straw. Steady. Carlot prices on wheat
and oat straw on Detroit market are $\$ 8$
8.50 per ton, rye straw, $\$ 9 @ 10$ per ton.

## DAIRY AND POULTRY PRODUCTS.

Butter.- Butter values are holding up well, consretty liberal percentage of us-
still a pret product offered. The demand
der-grade premited almost wholly to immediate
is limited and needs, buyers for storage firding fault
with, both quality and price at present.
Detroit jobbing prices rule as follows. Detroit jobbing prices rule as follows:
Fancy creamery, 28 c ; firsts, 27c; dairy, 2c; packing stock, 20c per lb.
EIgin.-Market firm at 28 c .
Chicago.-While offerings are libera Chicago.-While offerings are liberal
and quotations a shade lower on nearly
all grades, a firmer feeling is in evidence
this week. Home consumption is good
and outside buyers are showing more in-
terest than in some weeks. Quotations terest than in some weeks. Quotations
are: Extra creamery, $271 / 2$ @ $273 / 4 \mathrm{c}$, extra
firsts, 27 c ; firsts, $26 @ 261 / 2 \mathrm{c} ;$ seconds, $241 / 2$ $@ 25 \mathrm{c} ;$ dairy extras, 26 c ; firsts, 25 c ; sec-
onds, 24 c ; packing stock, $12 @ 22 \mathrm{c}$ as to
quality.
New York.-Market steady with values quality. York-Market steady with values
New
holding up well except on packing goods,
which are lower. Quotations: Creamery extras, $281 / 2 @ 29 \mathrm{c} ;$ firsts, $271 / 2 @ 28 \mathrm{c} ;$ sec-
onds, $26 @ 27 \mathrm{c} ;$ state dairy finest, $28 @$
$281 / \mathrm{c} ;$ good to prime, $261 / 20271 / \mathrm{cc}$ com-
mon to fair, $25 @ 26 \mathrm{c} ;$ packing, $211 / 2$ @ 23 c Eggs.-Good eggs continue strong in all
markets, the demand for storage purposes having a tendency to pull prices up a
little. On the other hand, the propor-
tion of ordinary stock is increasing, caus-
ing a widening of quotations and closer ing a widening of quotations and closer
attention to candling and grading. In
the local market values show another the local market values show another
fractional advance, current offerings,
candled, being quoted at $191 / 4 \mathrm{c}$ per doz.
Chicago.-Demand good for the better Chicago.-Demand good for the bette
qualities, with prices a shade higher, es


 $201 / 2 \mathrm{c}$.
Poultry. Chickens reached a new high level late last week but the feeling is eas-
ier, due to more liberal receipts this
week. Geese are quoted lower. QuotaWeek. Geese are quoted lower. Quota-
tions are: Live. Spring chickens, $18 @$
$181 / \mathrm{c}$ hens, 18@181/2c; No. 2 hens, $13 @$
$15 \mathrm{c} ;$ old roosters. $13 @ 17 \mathrm{c}$. turkeys, $19 @$
20 c ; geese, $14 @ 141 / 2 \mathrm{c}$; ducks, 18@20c per Chicago--Market slow and without ma-
terial change under an indifferent local
demand. Quotations on live are: Turterial change under an indifferent local
demand. Quotations on live are: Tur-
keys, goo weint, 15c, others, 10:
fowls. fowls, good, 16 c ;spring chickens, $30 @ 32 \mathrm{c}$;
ducks, 15 c ; geese, full feathered, 19 c ; do.
plucked, $7 @ 8 \mathrm{c}$ per lb; guinea hens, $\$ 4$ per
dozen.
 York flats, new, 141/@15c; old, 17@171/2c;
brick cream, 131/2@14c; limburger $18 @ 19 \mathrm{c}$.
Veal.-Supply limited and demand good. Chicago.-Trade slow in the face of a
good supply. Fair to choice, $80 @ 110-1 \mathrm{bs}$,
$12 @ 111 / 2 \mathrm{c}$; extra fancy stock, $13 @ 131 / 2 \mathrm{c}$;
fair to good chunky, $111 / 2 @ 12 \mathrm{c}$. Boston.-The market has not changed
during the past week. For normal seasons the month of May usually finds ers and brokers in the fields drumming
up sales, but with few exceptions it is facturers who have men out buying, but
the small way in which they are con-
tracting indicates that purchases are not tracting indicates that purchases are not
made for the purpose of piling up sup-
plies. Immediate and the near future needs seem to be as far as makers of
cloth are looking at present. This very situation is likely to improve the trade
for the coming months as some of the being no stock on hand manufacturers
will need to buy more liberally than
where they were better a bei

- wh wh
sh Soy would be without the extra demand.
Some buying is done in the fleece states
wuotations around

here was a further decline on Thursday
Conditions are such of about a dime. Conditions are such
that what in past years were only normal
receipts of cattle cannot now, be disposed
 qoutations. M
$43 @ 45 \mathrm{c}$ per bu.
Chicago.
$\qquad$ week's level but at the lower figures the
movement is good. The offerings aver-
age much better in quality than they did earlier. Fancy Michigan stock, 40@45c
per bu; best Wisconsin, $35 @ 45 \mathrm{c}$; Minne


## GRAND RAPIDS.



THE LIVE STOCK MARKETS.

## Buffalo.


THIS IS THE FIRST EDITION. In the first edition the Detroit Live
stock markets are roports of last week;
all other, markets are right up to date, all other markets are right up to date.
Thursday's Detrit Live Stock markets
are given in the last edition. The frst



and ohote: Beat siors, shitas, staos






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## (x) D D P

Make $\$ 4.00$ to $\$ 8.00$ more per acre from Make Clover, Alfalfa, Peas, Flax, Vetch, Timothy, etc., etc.

## THORNBURGH


 Mawazixquiq
sticking out.
No Bleaching-Cures Quicker-Fits
Any Mower. No Seed or Leaves Wasted If you are not one of the 100,000 satiofied ugers
Writo today for free oatalog and give your
Dealer's name.


HEAVY COPPER CABLE

## Lightning Rods



7 c Per Foot Direct to you No Middlemen

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HAY

## FARMS AND FARM LANDS FOR SALE OR EXCHANGE

 109 Areses all und or oultivation. endy loam: Eod Fertile Farm and animpapoped land in in Dolawage

## CASH FOR YOUR FARM




FARMS WANTED- Wo have dropot Davom Don'

MONET-MKIIIIG FARMS



## FREE

2


Reducing Distributing Costs.

## by Dr. CLYDE L. KING.

I costs more to distribute food prod-sota. Under it the wholesaler must obucts than it costs to raise them. To tain a license from some state authority,
put it the other way, the farmer gets filing a bond to the state for the benefit his produce less than one-half what of consignors. Under the Minnesota law, the consumer pays for it. Just here is the commission merchant must indtcate the proper point of attack in the much- the exact minute and hour of the day
mooted cost of living problem. So long when the sale was made. This was to as this situation continues, it ill-behooves avoia the abuses as to depressed quota-
the city dweller to talk about the ineffi- tions just indicated. Of particular imciency of the farmer. It is the city that portance are the provisions of the Wash-
needs to clean house.
ington law authorizing the Commissioner needs to clean house. detail in preceding of Horticulture to hear and pass upon any
As given in greater and
articles, the method of distributing food complaints by farmers; requiring the

$\qquad$


ONE DIPPING KILLS ALL TICKS Used on 250 million sheep annually. Increases
quantity and quality of wool. Improves appear ance and condition of flock. If dealer can
supply you send $\$ 1.75$ for 82 packet. Shipments
can be made

WM. COOPR \& NEPHEWS, CHICASO, ILLS
Dept. 23 . 64 . Illinois St.

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## ABSOREIN:

Will reduce Inflamed, Strained Muscles or Bruises. Stops the Muscles or Bruises. Stops the
lameness and pain from a Splint,
Side Bone or Bone Spavin. No blide Bone or Bone Spavin. No
blister, no hair gone. Horse can be used. $\$ 2$ a bottle delivered. Describe Book 2 K Free.
ABSORBINE, JR., the antiseptic liniment for mankind. Réduces Strained, Torn Ligaments. Enlarged Glands, Veins or Muscles,
81.00 a botte at dealers or delivered. Book Evidence" Iree.
W. F. YOUNG, P. D. F., 268 Temple St. Springtield, Mass.
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ten two. There is a natural tendency for the reliable commission man. It is spe-
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and sell them as good class; for the re- redress. This method of redress is too
will secure maximum returns. now. The only additional advantages

PARKE, DAVIS \& CO.
department of animal inoustry
detroit, - michigan
depabtment of animal industry
detroit, - michigan

## Dipping Sheep

is only one kind of cleaning up needed at this time of year. Dr.
Hess Dip and Disinfectant kills ticks, disinfects the skin andfleece, cures scab, mange and all parasit ic skin diseases. Is just the thing to put in the hog wallow. Keeps its strength and hogs can free time heal and prevent skin diseases. Besides
Dr.Hess Dip and Disinfectant cleans up and purifies the premises. It
should be sprinkled in the poultry house
and yard, poured into sinks, drains, and and yard, poured into sinks, drains, and
used every where where ith accumu-
lates. It has hundreds of uses and
sat lates. It has hundreds of uses and
should be kept in every home. It
is absolutely uniform in strength, is absolutely uniform in strength,
meets the U. S. Government re-
auirements as an oficial dip for irements as an official dip for
sheep scab, is non-poisonous ing One naarly noth makes
50 to 100 gallons of Write for Dip
circular. Dr. Hess \& Clark,
EASY AND SAFE TO USE INEXPENSIVE KILLS LICE

ON ALL LIVE STOCK DISINFECTS.

CLEANSES. PURIFIES.

It has so many uses that it is CURES MANGE, SCAE, RINGWORM, SCRATCHES
Destroys All Disease Germs
drives away fles
Write for Free Booklet
tive

## ween the farmer's ability to bost his Agriculture power to inspect the books,



NATIONAL CROP REPORT． The Crop Reporting Board of the Bu－
reau of Statistics of the United States
Department of Agriculture estimates reau of
Department of Agriculture estimates，
from the reports of correspondents agents of the Bureau，as follows：
On May and 1 the area of winter wheat to On May 1－the area of winter wheat to
be harvested was about $30,938,000$ acres，
or 4.5 per cent（1，449，000 acres）less than or 4.5 per cent（ $1,449,000$ ares）less than
the area planted last autumn，but 16．4
per cent（4，367，000 ares）more than the
area harvested last year， per cent（4，367，000 acres）more than the
area harvested last year，viz．， $26,571,000$
acres．


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counties 85 ，in the northern counties 88
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## Grange.

 EXTENDING GRANGE USEFULNESS. -III. operation in theory the Grange stands, if
it stands for anything. The difficulty now is to assist in applying it practically
so as to carry the "best things" into the so as to carry the best things into the
byways to "the last man," It means
working shoulder to shoulder with those we never have co-operated with both in
and outside the Grange. One form of possible co-operation which
is tapping at our doors today is that of the county farm bureau. Great diversity
of opinion is held by individual patrons, taken by different Granges, which alone
shows the need for thorough investigation and deliberate action on the subject.
At best the whole matter is in a hazy
state, so new that as yet it has taken no form that universally prevails. the part of city business men will be on sented by country business men. Ju
as certain is it that no one can possibly object to the farmers of a county form-
ing an association among themselves for promoting the rural welfare of that coun-
ty from any and every standpoint they farm improvement exist now, together
with. many other plans in between. Some wint many other plans in between. Some,
counties hire a, "secretary," "manager,"
"demonstrator," "agent," "expert,"" call him what yon

## man devotes special efforts to soill im- im provement, in some to alfalfa and forage


ening and extending organizations among farmers. Varying forms of this idea have been variously launched-by the federal
government, by agricultural colleges, by bankers, by city boards of trade, and by
farmers alone. In all of these the Grange will find material for study and comparson. Here, then, is a large opportunity for extending Grange influence outside its
own borders, yet one which also concerns its membership vitally. If the county
farm bureau, by and large, is a harmful proposition, the Grange should condemn possibility of developing into a plan for reaching the last man on the farm with doubtedly to stand as a constructive agent in developing it to that end.

JENNXE Buell.
 Mortcaim Pomona Grange was held at
Coral, April Grange opened in the
fifth degree and most of the morning
was given to regular routine werk were members present from eight sub.-
ordinates, and reports from ten subor-
dinate Granges were given. Dinner was served by the ladies of Coral Grange, and
in the afternoon Earl Johnson, of Butter-
nut Grange, was elected press reporter.
Ashley M. Berridge, worthy master of ty supervisor or organization. The duty
of farmers, through organization, to con
trol their products. Products belong to Honors Even in Debate.- Mr , and Mrs fields Farmers' Club in April, when only
about 35 members were present, 'sprin work" detaining many at home. "Spring
President R. W. Black presided over the President R. W. Black presided over the
business session. A good literary and
musical program was rendered. J. L. Truax told many interesting incidents
his late visit to Idaho, where he saw farmers sowing grain, in Marehe, an
where some land sold for $\$ 1,000$ an acr count of her sojourn in Florida the pa people throughout the worle than Thos
Edison."


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