

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

The Farm Labor Home.

THE question of keeping efficient la-
bor on the farm has been a stumbbor on the farm has been a stumb-
ling block to the average farmer. It has been suggested that the farmers might import foreign labor and allow the
young Americans to go to the city if they have such desires. But no rural they have such desires. But no rural the can be made happier by scattering
therant classes of Europe among our
farmers and that is not the way the boy on the farm or to bring pleasant neighbors to the wives and children.
Every young American farmer desires
a home and, by working in the factory he can rent a place that is his own pri vate abode and free from intrusion. The the advantage of a home. He is sometimes expected to occupy one of the
poorest rooms in the house and his prespoorest rooms in the house and his pres-
ence is a source of annoyance to the family circle. That explains why many men The accomp
The accompanying photographs were taken on the farm of a man who has
solved his labor problem in an inexpensive solved his labor problem in an inexpensive
and satisfactory manner. The problem of keeping the man contented and happy
was simplified when that man had a home where he could raise his family and have left the farm because they had no hope of starting a home until they had earned sufficient money to buy their own farm. They gave up farming rather than exist under the roof of their employer,
while with the advantages of home life they would have been as contented work in the country as in the city. If some owner of broad acres had spent a
few hundred dollars in building a small house, he might have hired one of these men as the city manufacturer hired him. The investment would have paid good dividends and with the privacy and contentment of home life the hired man would
not have longed for the city with its high not have longed for the city with its high
rents and confining work. The man would then take much more interest in the farm because it would be his home
and he would not classify as a transient

## The small square house shown in the

 photograph contains four rooms and hasproven a comfortable home for a man proven a comfortable home for a man
and his wife. It is plain and with no
architectural beauty, hut it has been the means of keeping a first-class man on the place for five years. He is a better
man than would ever have lived within man than would ever have lived within
another man's family circle where he could not have been independent. He
would have gone to the eity but even would have gone to the city but even
though the wages were higher, he could not have saved as much money as on the
farm. House rent, butter, and eggs were farm. House rent, butter, and eggs were
but small expense as the house is furnished to the man at a fair rent and he nished to the man at a fair rent and he truck from his own garden are insurance against a big grocery bill and thus the worker on the farm receives at little cost many of the necessities that reduce the
savings of the city man. The horses are often available on Sunday afternoons and the neighboring lakes are pleasant spots for holiday recreation. The clothes bill on the farm is small compared with the city and each month a fair per cent of
the pay check goes into the bank. If the the pay check goes into the bank. If the
man had gone to the city he would have man had gone to the city he would have
worked up in a trade, but he has learned worked up in a trade, but he has learned
the trade of a farmer and will always be a good citizen in the community.
The second and larger of the tenant houses described, houses a man and his wife and their three children. Two o
them are boys and the larger is already a willing worker who can spend his vady tions to the finest adyanta
far The adyg trade that mantag of a home have yade year account of a shortage of help be the experience with a goo many would ages of a cilizen and the advan- that we cannot wonder oftentimes that ers (now havg difficulties) if they eould better ond education will make his son they are disgusted with the business and manage to hire their help the year round efficient, and reliable men proving earnest, are ready to rent their farms and move or nearly. It is the long time service on omething beyonible men and work for to town. And yet, notwithstanding all one farm that is necessary to bring out ollar. The farm wages are not high minty the loss and inconvenience that this con- the greatest efficiency in hired help. The the many sources of supplies have brought that the dearth of farm help may be man now in our employ has been with us he income above the average wages of real boon to the cause of agriculture it he was the first year. This is netle than been pleasant and helathful. This article does not attempt any work out that way. Farm products will his real worth than the man who only planation of how to build tenant houses, and no amount of drastic legislation can Ohio.
there are many conditions existing upon labor continues so scarce. At any rate


Plain and Cheap Tenant House, yet-an Appreciated Farm Labor Home e individual farm
ito consideration. Upon the farm de- abous unwise to raise such a clamor cribed, the problem of keeping efficient may be for the best. Who knows? Per it labor was the biggest handicap to suc- haps it may stimulate inventive genius cess. The method of housing the men so that the few who remain in the coun-
has proven satisfactory and the cost of try will become expert managers, for to any farmer owning a hundred acres of ticular has made many a man resour land can build a small tenant house on ful.
hat land. It will mean the greatest of Those who hire help continuously have


A Desirable Type of Tenant House will Solve the Farm Labor Problem
and to the hired man who has the desire the job has a good deal to do in attract ane solution to the farm labor problem ing the better class of help. On our farm than the importing of foreign labor and, help by the day and I spent depend on many farmers, it will be the only way chasing around town looking for help in employ the past few years we have been hiring the past few years we have been hiring
by the month and nearly the year round and the result is that I have scarcely spent an hour since, in looking for help,
nor do we pay extraordinary wages. Again the question of hired help keeps were three applications this wages. There oobbing up as the ever dominant issue job on the farm and therefore we had the

ANOTHER HIRED MAN'S VIEWPOINT
I would like to make a few remarks in regard to the articles written by Mr.
Hutchins and also by the party signing himself, "A Hired Man," and Mr. Root Like "A Hired Man," I was not needed
at home, so commenced working out and ave continued to work out for the and eleven years, and wish to say right here
I do not side entirely either with the I have been employed by four parties during that time and in three different a great many hired wenked alongside o step farther than Mr. Hutchins will go a less the majority of hired men are care less and heedless, decidedly so, and, on
the other hand, I think the majority of Hutchers are careless, and I think Mr "A hired will agree with me in that "A hired man" says farmers do not pay
high enough wages, but my observation has been that they do and that in many on the other hand, I think many fared, but let good men slip through their farmers "going wage" will not pay more than the are worth considerable more than the average. He also says they ought to be arnished winter employment. I believe good man will always find winter emhe says they cannot save up anything for I know they can from experience. I onsiderays dessed wen, and have sen pleted the two-year short course in general agriculture and the two weeks short
course in horticulture by the way, what more profitable way could a hired man spend two or three or courses for his own future benefit as well Besides this, I could employer at present. a brand new 1913 touring car today fo writing this to brag, but to show that man can save if he wishes to. I might
add that I commenced working for $\$ 12$ per month in summer and doing ehores and have never received over $\$ 30$ month in summer and $\$ 20$ in winter, per As to irregular hours, I think many advantage if they would do more heod work, but if there is anything I detest it the whistle blows no matly drop everything when esult is to his employer. what the nce I was spraying an orchar remember was a young fellow doing therd and there umping for me and it was Sativing and ernoon, when the supper bell rang we had about six or eight trees left and just enough material in the tank to finish and o have finish over 20 minutes dropped the pump handle but the fellow popped the pump handle and would not Monday it rained and The result was, Monday it rained and Tuesday it was pples off those trees. Mr. Root mentions lem. I would like to give farm help prob-
that have come to my mind during the The majority of farms are supplied with enough boys and girls to carry on the farm work if they could be induced to stay. Everyone knows that a boy welltrained at home who is interested in his work is th
could have.
believe that the boy corn contests and other contests of farm work properly conducted and encouraged, will do more toward getting the boys and girls interested and finally solving the "farm help Oceana Co than any other one thing.
o. Another Hired Man
$\qquad$
The growing of alfalfa is becoming more common year after year and the value as
a forage crop is becoming more marked, a forage crop is becoming more marked, Some farmers are very successful, while
others have complete failure. This failothers have complete failure. This fail-
ure is due, perhaps, to two things; namely, improper preparation of the seed bed, and to lack of inoculation of the seed or Inoculation of an alfalfa field a few years ago was thought to be of very lit
tle value, but today farmers are beginning to see that inoculation is absolutely necessary for the best production of al-
falfa. The field may become inoculated after alfalfa grows in a rich field eight or ten years, this method, however, is too
slow and besides, the plant, instead of depositing nitrogen in the soil, is taking it from the soil. It has no power of form-
ing nodules on the roots unless these particular bacteria are present. This is not only true with the alfalfa plant but it is
also true with the clovers, cowpeas, soy beans and all of the legumes. They all
require a certain bacteria for their best development
We may wonder why the legumes a not grow well in an acid soil, since othe very well in this, kind of a soil. They d not grow well able to live in an acid soil.
not ablic
difficulty can easily be overcome by difficulty can easily be overcome by apper acre to the field. The lime is a bas The most common method for inocuthere is a good growth of sweet clover.
Two or three hundred pounds of such dirt harrowed in on a cloudy day before is easily and economically applied. Las year we inóculated a five-acre field by
this method. The soil was sown broadcast on a cloudy day at the rate of 200
pounds per acre. Three weeks ago while going over this field I noticed narrow
strips of dark green alfalfa across the field, and they seemed to be where we
walked as we sowed the soil broadcast by hand. Last week I noticed that these
dark green strips were gradually becoming wider and in a short time the whole field will be of the same color. You may
think that this dark color is due to a thicker growth on account of sowing the
seed broadcast, but the seed was sown seed broadcast, but the seed was sown
with a disc drill both ways, so the dark
color is due to nothing else but the accolor is due to nothing else but the ac-
tion of the bacteria. This particular case plainly shows the excellent results obAnother method which is easier and
more economical is the glue method. Dis-
solve about a pound of ordinary furniture glue in a gallon of water. Moisten the ring the seed for an even distribution,
then sprinkle on the finely pulverized and dried dirt containing the bacteria. Care
should be used in drying the dirt before applying as there is danger of killing the bacteria. The dirt should be selected known to be strong and numerous and
should be dried and sifted in a moder ately shady place. This method is a new one and has proven to be very satisfac-
tory. The labor and time involved is much less than the former method. Prepared culture can be secured from
the United States Department of Agri culture or from some of the state experi-
ment stations. The Michigan Experiment Station prepares all farmers living in this sta can get them at a nominal cost. Other farmers can secure the same from the
United States Department of Agriculture. United States Department of Agriculture
This method of inoculating is particularl This method of inoculating is particularis recommended for sections where alfalfa is not grown and where the sweet clover
does not grow. We used this method for does not grow. We used this method fo
inoculating our first field of alfalfa and now we use the soll from the already in
oculated fields for inoculating new ones.
Soil for inoculating can be procured from the United States Department of Agricui-
ture but the expense involved in transortation the expense involved in trans- On easily tilled soils the.

## ulture.

The methods of inoculating are not peas and soy beans, which need inocula peas and soy beans, which need inocula-
tion in a great many sections, can be inculated by these methods with success. you perhaps have sowed it without inoculating the field. If such is the case, diately or prepare the ground the next
diate year and inoculate before sowing and
your alfalfa will grow more thrifty with a healthier looking color.
Indiana.

## SOME PROBLEMS IN TILE DRAINING

Among the many interesting topics in your paper of recent date I have been particularly interested in the subject of drainage. I have some ideas of different methods that some others have perhaps of their experience.

I have nearly five miles of tile drains and I need 20. The largest drain on the place carries the water from a half secginning with 10 -inch, 80 rods of tile be tile. I have cut the surface down to take care of the surplus or it would be of little benefit.
and made a 14 -inch cement tile machine and made a few rods and started the
lower end but it takes more time than I care to use. I will take the ditch when dry and dig the right depth and level,
with the bottom shaped for 14 -inch tile With installments of cement and gravel placed along the ditch I will make the the core of the tile machine, which reduces its diameter one-half inch when
pulling on the handle, as the form for the ement. Any man who has hauled large tile six miles and paid the price and put
them in a ditch knows the difficulties enthem in a
I have a grader that will do more good with a man and team, whether it is grading the road, making a smooth surface drain, or filling a tile drain, than the heavy road grader can do with three men
and six horses. and six horses,
Livingston Co.

## F. L. Hacker.

## LILLIE FARMSTEAD NOTES.

Disking Land Before Plowing.
For a number theory that it been o disk land before it was plowed, not The theory has always been a plausible one theory has always been a plausible
When the furrows are turnair space at the bottom of the furrow where the furrow laps. If the season is at all dry this air space prevents capil-
ary connection of the plowed slice with he subsoll, consequently you get no subsoil moisture. The only way to do in down. Of course, in fall plowing the land gets settled down. That is one reason than it is in the spring. Bưt if this sod ground can be thoroughly cut up by disking so that when it is plowed down the sod would not hold together there would be no air space there because the fine
dirt thrown by the jointer would fill this air space as it does in nice stubble ground, and you would get better capil-
lary connection and consequently youwould get more moisture from the subsoil by capillarity. And again, in plowing stubble ground the corn stubbles bother some. If ground gets a little dry, estrash and clods of clay in the bottom of the furrow. Now it is almost impossible to pack this soil afterwards so that you get the proper capillary connection so that you can get moisture from the sub-
soil. On the other hand, if the soil could soil. On the other hand, if the soil could be thoroughly disked, pulverized fine on
top, fitted in such a way that it would top, fitted in such a way that it would
be almost, proper for a seed bed and then the ground is plowed, this air space is
entirely avoided, because it fills with fine dirt. Then, when the ground is fitted after plowing you have a thoroughly prepared seed bed. I say I have been a convert to this idea for a number of ears but never have been able to do it. land, much of it is clay. Horse pulverizers won't dig it up. If you load them down so that they will cut up this hard clay then the horses can't pull it. You haven't got the power to do the business.

On easily tilled soils there isn't very
much of a problem. A good pair much of a problem. A good pair of
horses will draw a plow all day. The soil horses will draw a plow all day. The sow
is loose and mellow and plows down nicey. There are no clods to be crushed by roller. The roller being put onto this soil presses it down and the tillage prob-
lem is not a very difficult problem. On the other hand, if you have heavy clay tion is an entirely different one. It is hard work for a pair of horses to plow
heavy soil. It usually plows up lumpy. It is tough. It takes lots of power to cut
this up and fine it, and when corn stub ble gets hard in the spring corn stubimpossible to get a common horse pulverizer or spring-tooth harrow or anything of that sort to dig it up. But I have
found something at last that will do this, nd that is the modern big engine disk or cutaway. Implement manufacturtrs re now making disks that cut ten or hore feet wide that weigh from 1,800 2,000 lbs., and are double action, one disk following the other so that it leave
the land level and not in ridges, and the ground is exceedingly hard such implement can be loaded with stones or
sand bags so that it will go in. It will do the business. Now the only it will then, is to get the power to draw it, and that power is solved in the modern traction engine. Horses can't do it. It is too hard work. It wouldn't be possible keep horses enough on a farm to do this kind of work.
This year I had a corn stubble that we covered with a heavy coat of manure manure wasn't spread late spring. This put on too thick in the first place, and thrown off in forkfuls. We tried harcourse, it helped it some. Then we put on the traction engine with the big disks. We had to go over it both ways because these big disks wouldn't fit all of the places going one way. But when we went torn to pieces and mixed with the surace soil, and when we came to plow it plowed like a garden. There was 11 of the air spaces. The ground dilln't plow nearly as lumpy as it does some years, and I believe that it is the best
job I ever did upon this field job I ever did upon this field.
Again, the clover sod cannot be disked with ordinary horse tools. It takes too long. You would have to go over it a
good many times to work it up. One can't afford the time in the spring. But the big engine disk will cut into the clotwice, and chop it all up so that when it is plowed the fine dirt fills up the bottom disking 40 acres of clover sod and I never had clover sod plow quite so well be wet I don't think it would make so is dry I am sure that we have formed a better capillary connection between the nore and the sub-soil and we will get
that we have got a better seed bed. Home-grown Alfalfa Seed.
In my alfalfa notes last week I forgot ment, and that is, that $I$ succeeded in getting a bushel of alfalfa seed that was Irown within five miles of my farm, and seed. The question to solve is whether home-grown alfalfa seed is hardier and Most people are inclined to think that this will be better. I have a good chance will try it out because our other conditions with seed purchased from the northwest rather expect it will be a little hardier and a little thriftier, but only time will
tell.

## GOOD SEED CORN.

Make no mistake, plant only such Corn that is suitable to your locality. Many ture last season simply because many farmers planted seed that was grown too far south. Ask your dealer for our Northern Grown Fire Dried Seed Corn, and if and we will guarantee safe delivery. It costs only about 40 c per acre more to plant your land with our high grade testdeed Corn than if you plant your own. . Brown Seed Co., Grand Rapids, Mich. -Adv. centage of nitrogen is given, then by multiplying the percentage by 17 and dividing that result by 14, the correspondfound.
B.-Potash is quite commonly spoken discussing the element potassium in fertilizers, almost in the same way that ammonia is spoken of when discuss ing the element, nitrogen. Potash really ygen to two parts of potassium, written K2O. Now, sulphate of potassium is pot ash (K2O) plus sulphuric acid (SO3), or
K 2 O plus. SO 3 , which is K 2 SO 4 which sulphas sulphate of potash. If the percentage of what its given and one desires to know ash, he may multiply the percentage potash by 174 and divide the result by 94. The result will be the equivalent in terms in mind that if a fertilizer guaranty states that it contains 14 lbs . of nitrogen, 17 lbs , lbs. of sulphate of potash, the fertilizin value is not equivalent to the sum of all these amounts, for 14 lbs . of nitrogen and 17 lbs . of ammonia are the same 94 lbs . of potash and 174 lbs . of sulphate of potash are exactly the same thing, but expressed in different equivalents. C.-A fertile soil will contain, perhaps, on the average, four tons of potash per
acre, three tons of phosphoric acid per acre, two tons of nitrogen per acre, fig uring on the first surface foot of the soil. D.-We think the best form of potash bona used, if it can be obtained, is carbonate of potash, the form in which potash exists in wood ashes. The amount to be sown depends entirtly upon the ashes are obtained it may not be necessary to use limestone in connection there500 If not we should in 500 lbs , per
limestone.
E.-The same answer may apply to this question regarding available phosphoric acid as given under "D."
D.-If ground green or steamed bone is garding there need be no apprehension reis used we should prefer to use it in connection with some organic manure.
F.-If fertilizers are used in connection with an organic manure there is little

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## Horticulture.

BORDEAUX INJURY OF FRUIT
Until just a few years ago Bordeaux mixture was considered the best fungicide for all fruit troubles of a fungus
nature. It was Bordeaux injury which nocked it from its pedestal of ence, and brought forth lime
The Bordeaux injury which is familiar to many fruit growers is mainly found on
the fruit, although sometimes the foliage is slightly injured. The russeting caused by Bordeaux injury often deforms the fruit is lop-sided, the side of the ap-
ple russeted does not grow normally. The ple russeted does not grow normally. The
fruit often cracks, as in bad cases of
scab, and in some varieties, the Ben protuberances which are russeted. Greenseted that they resembled Russet apples so injured will not keep as long as ordinarily because they do not have the nat the evaporation of moisture from the inside and shrinking. They will be liable
to shrivel like the Russet. The marke value of such fruit

## posed to be due to the action of the cop

 prevalent when we have considerable wetweather. Then the lime of the Bordeaux
mixture unites with the excessive moisBordeaux on the tree periment to learn something of Bordeau We tried to find out which spraying cau experimental plots so arranged that one
of the usual sprayings of Bordeaux was
skipped on each plot, the arrangement being so
application left out. We found that all ing before the blossoms being no ex A great many growers, thinking th
the spraying before the blossoms wo cause no injury,
than the lime-sulphur, and they have in many cases had saw Ben Davis apples las
just the one spraying of Bordeaux before
the blossoms opened.
Two of our experimental plots were sprayed just alike before the blossoms
opened. They were sprayed on the same day and on the same variety of fruit and the making of the Bordeaux was as near cases. On one plot we had injury and
on the other none. The only way we
could account for the difference in the
batches. There was undoubtedly some
slight difference in the way the two
batches were put together which caused
the one to burn and the other not. So
njury, weather conditions and the man
ner of mixing. deaux injury. Ben Davis, R. I. Green ing, Jonathan, Wagener, Baldwin, King Northern Spy, Duchess, Red Canada, Spitzenburg, Fall Pippin, and Snow are
not very susceptible. Van Buren Co. Fr,ank A. Wilken
At first thought, the question, is a gar
At first thought, the question, is a gar- trouble to make a journey through the country in the last days of June or first days of July, will soon discover that question. Perhaps it will be well to state in the beginning, that the term garden as used here, does not mean a patch of pig weeds and quack grass with a fence

In considerin whether or not a garden pays, the first that of labor up in serious objection is with work and can hardly find time to
put in his spring crops, he is apt to re-evil-a nuisance that must have some legree of attention, sooner or later, and t is generally later. In justice to a host
of successful farmers, let it be said, howof successful farmers, let it be said, how-
ver, that they pay as much attention to er, that they pay as much attention to nd consider it of as much importance. armers who are skeptical about the garen propositios. An easy way to settle
he question is to place the figures of labor beside the figures of the cost of
garden products at the local market prices. Measured in this way, it will be
found that few, if any, crops pay better than a good garden, and that time, labor, and the ground can not be used to better In investigating the garden question, the observer is not long in reaching the ed farms and well-kept homes generally
mean good gardens, while slovenly, ill kept places and unprofitable farming opAsk the first-class farmers whether
garden is worth while, and you will re tive. Ask the second-class, and, of
course, you will be unable to get a satisfactory answer.
In farming, as in everything else, it is
the little things that count. Whatever the little things that count. Whatever
adds to the farmer's infenendence and
comfort is certainly wor: h . ile. In these fore, the more nearly the farmer can
come to growing what he consumes, the more nearly has he solved the problem of
subsistence and success. The man who
is harvesting early potatoes of his own
growing while his neighbor is paying 40 store, is the man who has grasped the
full significance of the advantages the farm affords. Likewise, the farmer who
pays 12 or 15 cents a quart for berries little time and labor, he might have them
in plenty on his own farm, has not yet
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solve the problem of preparing the meals
from day to day, and they know better than anyone else, what a good garden really means. They can answer from the
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$\square$ fort, every farm should have a good gar den-a garden in which rhubarb and as summer, the various garden products can be obtained in their turn. In the sum-
mer, a good garden is half the farmer's
nwns one acre or an entire section, gar
Hillsdale Co. J. A. Kaiser.

LATE CELERY FOR WINTER USE.
Last year we had the finest lot of cel
ery ever seen in this locality, and here is
The plants were grown in very rich soil and thinned so that none were small
and spindling. No- weeds were allowed o grow among the plants. After the plants were four or five inches high, the o cause the plants to grow stalky. Durhoroughly sprinkled, every evening. The wo weeks after were again shorn, about doing this, there is danger cinging. In plants. Only the top section of the eaves should be removed

All this may seem to be a great deal
of unnecessary work; but it is simply time wasted to set out small spindling grown without considerable work
Late celery plants should never
started in the house. That is, late varie
ties should always be sown in open here in Ohio. When celery is wanted fo late fall and winter use, the plants may be set out any time from July to Sep-
tember, with good results. Ours were transplanted last year on August 21. Af transplanted last year on August 21. Af
ter the ground had been thoroughly spad ed, the plants were set in double rows about one foot apart and six or eigh inches in the row. The advantage in th double rows is that when drawing the earth up around the plants to blanch
two rows are as easy to handle as one Plants were set in rows on a level sur satisfactory here. To be at its best, cel ery should be grown quickly. Stringy o hollow celery is very poor eating. An unless there is plenty of plant food an
moisture in the soil, the celery will b full of strings. To promote rapid growth full of strings. To promote rapid growth keep the roots cool and damp. Late plant
ing is conducive to rapid growth becaus the late summer and fall months are cooler, as a rule, and there is usually
more rain than there is earlier. After the plants started they were no disturbed for about a week. Then th er the plants require more care. Unless
the soil is kept moist they will be veryThen use a hoe or similar implement to
Arter the surface was thoroughly culdeep with manure from the poultry house


more harm than good.In the mea
soaking rai
we wanted. Without these rains the top
dressing would not have benefited the
plants. The soil was again loosened withgan. Wis stage the blanching process be
up the soil as soon as the plants get w
started. Some growers do not begin
size and
stalks inor banking process is begun. The root
days light material is used. Every fedays a little more earth is drawn up
around the plants as they grow. Aftethis the celery will need very little Aftetention until ready for use, except bank
surplus moisture. If either the pla
plants
earth,
STRAWBERRIES PROMISE WELL
May first I finished loosening the mulch


some growth had been made prior tmake sure that no injury to the plants
to some work that was more pressing.
ween the rows not protected with strawsoon as possible more straw will be apforest leaves, required but little assist
a pushing up through the covering.ye straw the new growth was normal inwas, se is evident that plenty of lighwere places where it sem, stin thereo part the where seemednew leaves and fruit buds might grow u

## "LIKE MAGIC"

New Focd Makes Wonderful Changes.
When a man has suffered from dy pepsia so many years that he can't reember when he had a natural appetite, may be excused for saying "it acts like Whe
when it is a simple, wholesome food o-called any one of a large number or e is more than ever likely to feel a hough a sort of miracle has been per ormed.
A Chicago man, in the delight of $r$ tored digestion, puts it in this way: "Like magic, fittingly describes the manner in which Grape-Nuts relieved me appetite, of many years standing. I tried about every medicine that was ecommended to me, without relief. Then
tried Grape-Nuts on the suggestion tried Grape-Nuts on the suggestion of
a friend. By the time I had finished the fourth package, my stomach was all right fourth package, my stomach was all right, ating with relish anything set before e. That is something I had been un-
am stronger than ever and I contomach es something really on a weak. builds up the entire body as well te brain ans nerves." Name biven the Postum Co., Battle Creek, Mich.

Bon," and it is explaine

## the little book, "The Road to Well

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will clean them off permanently and you work the horse same time． Does $\$ 2.00$ per bottle，delivered hair．$\$ 2.00$ per bottle，delivered． Will tell you more if you write．
Book $4 \mathbf{K}$ free．ABSORBINE，JR．， the antiseptic liniment for mankind，
reduces Varicose Veins，Ruptured reduces Varicose Veins，Ruptured
Muscles or Ligamente．Enared Glands，Gitrees，
msta．Allays paln quickiy Price $\$ 1.00$ and $\$ 2.00$


## ＊TREEMAN ENSILAGE CUTTER



Saves Dollars on Power Cost
解

Enclosed Steel Carrier－


Hollow Tile－Steel Reinforced
$\qquad$

 Our Illustrated Silo Bogk

NATIONAL FIRE PROOFING COMPANY huntington．ind．


## Railroad Watch

第男 B．E．CHALMERS \＆CO．， 538 So．Dearborn St，CAIICACO．

## Live Stock．

## un <br> <br> －

 <br> <br> －} tive，consequently the foal that nurses unloads and eliminates the excrement which usually packs the posterior bowelsquite full．It is very important that the quite full．It is very important that the
orphan colt should be given a tablespoon－ orphan colt should be given a tablespoon－
ful of castor oil alone；a glycerine supos－ ful of castor oil alone；a glycerine supos－
itory or a small piece of soap be places in rectum to lubricate the bowel，or an ounce or two of olive oil be in order that this wavy excrement might be gotten rid of．
Immediately after birth the Immediately after birth the navel cord
should be treated in the following man－ ner：Wash the cord with a solution made by dissolving one ounce of carbolic acid in a quart of clean water；or use one
part corrosive sublimate to 1,000 parts part corrosive sublimate to
water，then tie cord with a silk or linen water，that has been thoroughly soaked in either should be saturated with Lugol＇s s lution，which is composed of 25 parts of iodine，four parts iodide of potassium and you may apply a dusting powder com ide of zinc，boracic acid with a lit camphor added．I have also obtained
very good results by applying one part iodine and 99 parts liquid collodion．There
are many other home healing remedies that seem to give good results and if you have nothing else on hand，use the first mentioned lotion until the navel heals
perfectly．It is needless for me to say should be thoroughly disinfected and kept
clean and free from filthy bedding and reding． is cow＇s milk．Select milk from a heal
thy cow that has recently freshened，but be sure and add one－fourth its volume o boiled water．Also add a little sugar to
each meal．Kindly understand that a very young colt should be fed every t
hourtil it a few days old，then engthened．It must also be underst that feeding utensils should be k
scrupulously clean，giving them much same attention as is given in child feed
ing，for if this is not done the colt is a
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ siderable grass，crushed oats and，when
changing from fresh cow＇s milk to sep－ arator milk，it is necessary to reduc ducing too much bowel action．I hav enough of other food，besides milk，it wa colt reared by hand can usually and sa
ly be weaned at four or five months． is also important that the colt have th
companionship of other colts，or horses they do not seem to thrive and do
well when alone．This，perhaps，is
account of them not taking sufficient ercise and the bowels and kidneys acting free enough．Besides，plenty exercise induces appetite．
$\qquad$ many years ago we attempted to raise st them all；this，I now feel sure，wa for lack of knowledge，not only in fe
ing，but the early treatm nt of the
$\qquad$ tion，which can now easily be prevented
furthermore，I am sure that we were no painstaking enough in thoroughly clean ing and airing their feeding utensils；be sides，we failed to dilute their milk an did not add sugar．However，during th
past 25 years，I have raised orphan colt in the mann， 1 have raised orphan colts ed，and in some cases it was found that some of them appeared to thrive fully as shown smaller numbers of tubercular well as colts raised by a poor milking animais．

## Dairy.

,
HOW TO MILK A COW PROPERLY.
 I How a cow should be properly miliked, would be instructive to many
and sreatl| appreciated.
Charlevoix Co.
Milking is an art, and not only this,
but it is an art that it seems impossible for everybody to acquire. There are more
poor milkers than there are good ones, many times more. The reason why many
cows do not give more milk is because they are improperly milked, because peomilk, or haven't the proper strength in
their hands or the necessary
thailities in done. The cow shoutd be milked as rapidly as possible. Experiments go to show quickest gets the most milk in a year. The slow milker tends to dry up the
cow or he does not in any way develop
$\qquad$
$\qquad$ little finger and the rext of the middle Inger and have the rest of the hand up
on the uader. Don't grasp it with the
thumb and finger and attempt to milk in thumb and finger and attempt to milk in
that way. Milking consists of manipulat-
ing the udder at the same time the milk is drawn from it, and unless one learns
to suceesstull| mantulate the uder he
is not $a$ first-class milker. The cows is not a first-class milker, The eows
with reasonable sizeed teats, that ts. those
large enough so that a man cal
full hand hold on the teats, are the ones
 up on the quarter of the udder tends to
bring the milk down into the teats, and
then it is squeezed out by the rest of the hand. Just opening and closing the hand
$\qquad$
out any great amount of it, and it is this
manipulation of the udder which tends
to increase the secretion of milk in the
time of milking the cow will secrete more
milk. Very little stripping should be done. The milk should all be taken form
the udder without stripping. It is a good plan after one is practically through milking one hand to press the milk out and the other hand to manipulate the udder.
For instance, grasping the teat in the
right hand and with the left hand gently
pressing on the quarter of the udder with
a downward pressure, will bring the milk
 TRADE ingour old separator on account of a neve DE LAYAL

An up-to-date De Laval separator will, on an average, save its cost every year over any other separator.

In addition to the actual saving in more and better cream there is also the saving in time of separation and cleaning, in easier running, greater durability and fewer repairs. savings more than 40,000 users of inferior and worn-out separators of various makes last year took advantage of the De Laval exchange allowance and traded in their machines on account of De Lavals

USERS OF OLD DE LAVALS, on ac count of the many improvements in the modern De Laval over machines sold 10 to 25 years ago, including closer skimming, easier running, better oiling, etc., will also find it to their advantage to exchange their old De Laval for an up-to-date De Laval.

SEE THE NEAREST DE LAVAL AGENT. He will tell you how much he can allow on your old machine, whether a De Laval or some other make, toward the purchase of a new De Laval. If you don't know a De Laval agent, write to the nearest De Laval office giving make, number and size of your present machine,

THE DE LAVAL SEPARATOR CO. NEW YORK CHICAGO SAN FRANCISCO SEATTLE


AMERICAN SEPARATOR CO. bainBRIDGE, N.Y
Write Ged. E. Schairer, of Saline, Mich, for ofroular


Please mention the filchigan Parmor when

## Get Your Produce to Market Cheaper,

 Quicker and Oftener With This
##  <br> 造 Model H MOTOR 1500 lbs. MOUCK Capacity TRUC

Mechanically Perfect-a Giant of Power Costs but $\$ 750$
On good roads-the equal of any two horses that ever ate their $\$ 2$ worth of feed a day; on and and through mud-the equal of any four. Yet it works from morning till night on a pittance of gasoline and
forty cents worth of the former and a nickel's worth of the latter.

Fasts when not busy; needs no veterinary; no blacksmith; doesn't get frightened at a blowing newspaper; litters up no stable; requires no hay loft and grain bin; saves barn space and hired help; and can be
operated by any man or grown boy who knows enough to pour fuel into operated by any man or grown boy
a funnel. Lastly-costs but $\$ 750$.

As Uncle Sam said to Mexico: "I ain't arguing; I'm just telling you." There is no argument-can be no argument in the matter at all.
All we ask is that you, see for yourself that-at $\$ 750$-we have really All we ask is that you, see for yourself that-at $\$ 750$-we have really
produced a motor truck answering perfectly and exactly to the needs of produced a motor truck answering periectly and exactly
the farmer who wants to haul his produce to market quicker and cheaper.

Write us for full description of this powerful little truck. Tell us also something about the work you expect of it, and we can give you
some interesting facts and figures, also the name and address of the neareat of our 1100 dealers who can ahow it to
REO MOTOR TRUCK COMPANY, Lansing, Michigan.

为
BEE SUPPLIES and BERRY BASKETS

m. H. HUNT \& SON, 400 Condit St., LANSINC, MICM.

## Health Hens <br> are amass profit payers. <br>  <br> pratts <br> 3EESUPPHIES



EGGS, Etc. - Small ionsignement from pro






BRED TO LAY-S. C. BuIf Loghorna


$\left\lvert\, \begin{aligned} & \text { COCKERELS FOR SALE } \\ & \text { WOE Mare }\end{aligned}\right.$




 Elmer E. 8mith. R. 2, Box si- iedford, Mch.

 C Rystal Whrte inpingTo
 LILLIE FARITSTEAD POULTRY


 R. C. A. I. RED EGGS, $\$ 1,50$ PER 15, POSTPAID White Wyandotles - - Snow white. Wintor laying getrain, WHITE LEGHORNS

 FOX AND WOLF HOUNDS



## Poultry and Bees.

## COMBATING GAPES IN CHICKS.

Gapes are more easily prevented than cured. Do not wait until chicks become infected before adopting preventive measures. If the chicks are reared on the
same small plot of ground each season, then the ground must be treated to prevent infection. Cover the entire yard
with air-slaked lime and then spade it with air-slaked lime and then spade under. Lime has a tendency to sweeten
the soil. Do this each season and the the soil. Do this each season and the Sowing grain in the yards is also an effective means of purifying the ground.
Rye, oats or other quick growing grain is Rye, oats or other quick growing grain is
excellent for this purpose. The sowing excellent for this purpose. The sowing
should be done before the chicks are alGapes are caused by small worms that lodge in the windpipe and cause suffocation. The object of treatment, then, is tractors can be purchased that will remove them, or one can easily be made
from a piece of thin wire, forming it in the shape of a loop. A loop of twisted horsehair will also answer the purpose.
Insert either one of these gently into the windpipe of the chick and pull it out
with a twisting motion. Burn all worms emoved, also all chicks that have died of gapes. Clean out and disinfect the drink-
ing vessels; also the brood coops. Never ise coops for new broods in which chicks nfected with gapes have been raised
without first disinfecting them. Whitewithout first disinfecting them. White-
wash them thoroughly, adding a little crude carbolic acid to the whitewash. Then spray inside and outside of coop
with a good coal-tar preparation. Also spray all feed troughs with the same so lution. Keep a good disinfectant in the
drinking water. Copperas or permangaIndiana. $\qquad$
WHEN TO SELL. SURPLUS STOCK. Success or failure in any line of farm of farm produce as upon the producing of the stuff. A good many farmers who
have been successful in getting out a have been successful in getting out a
bunch of early-hatched pullets, make the
mistake of marketing them as broilers

## Then they would bo worth much more as hayers next nall $A s$

pullets from which the cockerels have been removed before they become trouearlier than will one in which the cockerels ar
summer.
ummer.
Then, besides the cockerels, there is ways a number of old hens. It never should be sold each year to keep the flock own to whatever size can be most proftably kept. Like the cockerels, old hens can be sold to best advantage early, or efore the young stock is thrown freely ing season is over these old hens will not be doing very much laying, and then is the time to market them. I have always found it advisable and profitable to
begin disposing of them as early as May, and all that we had to sell went before the close of June. At this time they are in the best marketable condition, and bring about, or nearly at least, twice it is very hard to get old hens into good marketable shape in the fall when they more than otherwise, some moult they eat get poore therwise, some are lost, they and when you dispose of them they realize not nearly as much as they would For most farmers it is usually advisable to sell all kinds of poultry through me reliable commission merchant, rathcannot sell it better than you can, and you can rest assured, they are not in the
business for glory. It is no trouble to get the name of a reliable commission get the name of a reliable commission
merchant in some large city, and a card merchant in some large city, and a card and full directions for preparing for market and shipping. Most commission merchants always have some crates and coops on hand which they will gladly ship

When you come to cooping the fowls, nake it a rule rever to overcrowd, and day mornings. Have two tags on each and one on each end, bearing your name erchant. New York. $\qquad$ LIPPING OF QUEENS.

It is desirable, especially with bee-
keepers who cannot keep close watch of
heir bees during the swarming season, to clip the queen's wings. A hive with will not abscond to parts unknown, as the will return. The losing of swarms, the trouble of separating two or more swarms that clustered together and the finding of
the queen for each one, and the difficulty in hiving a swarm perched in some high tree, are some of the reasons bee-keepers No better time can be found to clip queens than in the spring. Bees are then queen is an easy task. A few hints for the easy finding of the queen may be
helpful. Open the hive with little or no smoke. Do not puff smoke down between the frames; if any is needed have it float
over the frames. Sit down with your back toward the hive, so that light strikes into the hive. Take out one of the middle frames after first crowding over the
others a little. Look at the exposed side of comb in the hive first, later on both sides of comb in your hands. If queen is
not found, lean comb on the outside of hive and take next frame out, always glancing on side of comb in the hive
first. Queens may be found in most cases the first time over the frames. If he bees have quieted down. never be done until she has shown should self to be a layer, take hold of her finger-never grasp her body, especially her abdomen-raise her off the comb, place her gently on the left hand and press on her feet with the left thumb
sufficiently to hold her. Now, with the Sufficiently to hold her. Now, with the
right hand, by use of a small delicate pair of scissors, cut off about one-half This method is easy and quick, and preShiawassee Co.



$\qquad$
$\qquad$
$\qquad$ same birds had they been fed until Sep-
$\qquad$ cockerels as broilers at the proper time nd realized enough from them to pay
or their feed and that of the pullets up I have always found it advisable and profitable to sell the cockerels, especially
the early-hatched ones, just as soon as ments of the market at the time. Durmuch as $\$ 8$ per dozen for $11 / 4-1$ b. cockrels, and in exceptional cases more. dring June, and often until late in July, weighing around $11 / 2 \mathrm{lbs}$, each may be ealizing as much as 60 cents per lb. for -1b. broilers as late as August. You can cept those intended for breeders. The plain truth is that they will bring more weighing twice as much.
There is a handsome profit in rearing ents or more, and but little or none at in keeping them to four or five months cents. For these reasons it behooves all heir cockerels promptly. to dispose of Then again, the pullets are thus af-
orded more room, grow better and lay earlier. It is safe to say that a flock of

## Farm Commerce.

## ECONOMIZING BY TAKING ADVA TAGE OF LOCAL CONDITIONS.

 ty, Michigan, are making use of a mill now is in ruins. A steel bridge is sus. pended across the dam and to the railing
of this structure have been bolted number of force pumps. The farmers then proceed to fill the barrels from the The water is then water in the dam. shed where the spray mixture is added. that reflects credit upon the men or section. It is the use made of conditions there to facilitate the handling of fruit. a long pier built far out into Lake Michgan, and a storage house at the land end rail track on which are operated a pair d with filled barrels, crates, and baskets


Steamer at Pler to be Loaded with Fruit, of fruit, and by gravity are rolled out to
the lake end of the pier where a small steamboat is tie

While one car is being unloaded at the age house, in which the floor is level with the tops of the cars. The pier is
aken out late in the fall and replaced before shipping time of the following year. The fruit, when there is a full
boat load, is run across to Chicago. When less than a full load it is given to one the larger boats at South Haven.
But to go back to the subject mentionply of water pumped up from the old dap and converted into an insect-killing conthousands of a great variety of fruit trees in the vicinity, has caused this
hip loading contrivance to become one the most famous fruit shipping points on

down to end of Dock where Fruit is Loaded on Boat.
Pier Cove shipped from this little storage sales is in the end the most porfitable three million fifth-bushel baskets of in itself remove anement of this end will peaches, not to mention any of the other widespread consumption of apples. It
kinds of fruit that found market kinds of fruit that found market from the will obviate the necessity of making re-
same place. It is a not uncommon thing peated appeals for funds same place. It is a not uncommon thing peated appeals for funds to advertise the
for the Pier Cove and Fennville district successive crops to ship a quantity of apples that crops.
to 1,500 railroad cars Pier amounts Those who have undertaken this radical shipped 1,000 car loads three years ago. have felt for some time that the apple it is estimated that not less than 100,000 is not used to the extent it should be. Cove pier to shipside during the remaind- watched purchases of fruit from retail
markets and observed that where apples,
bananas and citrus fruits were displayed onnanas about citrus per cent of the buyers
only pought apples. General observation would
bore indicate that the above is about an average percentage of app
sales of other fruits. used as generally in the kitchen as for-
merly, other kinds of fruits and foods are being allowed to take its place. Among the poorer families of our cities
apples are as much of a luxury today as apples are as much of a luxury today as
oranges were several years ago. Because of prohibitive retail prices these people
who must econgmize at every turn pass the apple by and thus lessen the con-
sumption to no small degree. But in spite
of this decrease in the use of the apple the consumption of bananas and citrus change of this kind necessarily captures the attention of apple growers and deal-

Men who have made a careful exami nation of the facts are unanimous in their us fruits and the banana to a highe commercial level and the declining popu larity of the apple are due almost en
tirely to the advertising that the forme kinds have received. A continuous sys tematic campaign of publicity by the
large organizations selling tropical fruit large organizations selling
has familiarized every hous

## m

cine and this knowledge, together medi her advertising influences, has resulted

plan for improving distribution. If ad to the tropical fruit industry as observa these promoters of larger apple sales ap-
pear to be reasoning along logical lines.

COLD DAMAGES FRUIT.

## While the last report of the Secretary

 of State on Michigan fruit is very prom-ising in that the condition of apples was put at 83 per ent, pears 86 per cent
peaches 82 per cent, plums 84 per cent
$\qquad$
$\qquad$
$\qquad$
$\qquad$
portant fruit producing states.
In this state the damage was greates
though many sections in the norther

## districts report injury to fruits, particu- larly on the lower land. In Berien and

## ranges from 25 to 50 per cent of all the

## early fruits, and grapes and peaches

$\qquad$
$\qquad$
$\qquad$the southeastern counties the loss will
The cold wave was general over the
north central and eastern states and un-
tord dame
BUSY
EVERY DAY SHOWING

## The Michigan Farmer

 The Lawrence Publishing Co. 5
 "룬
r line agate measurement, or $\$ 5.60$ per
nertion. No adv't inserted for less than

 DETROIT, MAY 31, 1913.

## CURRENT COMMENT.

Commission Merchants' Reference
been made the Roosevelt bill which was pending before the New York
Legislature. A bill somewhat similar in its provisions, was introduced in t Mr. Follett during the recent legislative session and was passed by both houses. This law, known as House Enrolled A
No, 119, provides for the licensing commission merchants, including persons, firms, associations and corporations wher
sell or offer for sale on commission an kind of farm produce. The term "farm produce" is defined in the law as includ-
ing all agricultural, horticultural, vegetable and fruit products, nuts and honey. but does not include timber products.
October 1, 1913, no commission merchant doing business within the state shall re-
ceive, sell or offer for sale on commission within the state, any kind of farm
produce without a license, as provided in the law. This license to do a commisDairy and Food Commissioner upon making application and payment of a fee of
$\$ 15$ in cities of less than 20,000 population and $\$ 2$

## population.

shall not be issued upon application, provided a complaint from any consignor of been fled during the preceding year on and established as true upon investigation by the commissioner. Power is givto investigate all charges of unfair deal-
ings and hold hearings on same. He is fully empowered to refuse to grant or to
revoke a license already granted where

## "(1) False charges have been imposed "is satisfied that:

 for handling or services, or charges otherthan as by a schedule agreed on by the parties, or other than those customary in
trade; account promptly and properly or to make settlements with intent to defraud; "(3) Where there have been false state-
ments as to condition, quality or quantity of goods
$\qquad$ misleading statements as to ma
ditions with intent to deceive;
"(5) Where there have been combinations to fix prices below the market level; course of dealings of such nature as to atisfy the commissioner of the inability of the commission merchant to properly deceive or defrand customers;
directly or indirectly purchases the goods A for his own account without prior au-
thority therefor, or without notifying the consignor thereof
Provision is made for an appeal at law fused licenses or whosents who are refused licenses or whose licenses are re-
voked. Shippers of farm produce are privileged to make an appeal to the State Drivileged to make an appeal to the State within 60 days after making a shipment with the returns of which they are dissatisfied. The commissioner is required a complaint and cause a full investigation of same to be made.
penalty clause is attached to the law, both upon conviction on any one of the counts above enumerated. Retail dealers, eal estate dealers and auctioneers selling farm products on commission are specifi-

The state Dairy and Food Commissioner is required to publish the names of all
commission merchants in phamplet form as often as he may think necessary. The funds contributed from the license fees are turned into the state treasury for
the benefit of the State Dairy and Food the benefit
Department.
While this law will not be a hardship alarm
o reliable commmission men, and should bring them increased business, yet it will be the means of protecting innocent ship-
pers from transient or unscrupulous dealthat Shippers, however, should remember pack their products honestly and be reasonable in their demands.

Operating Capital vs. profits in farming, Farm Profits. profits in farming,
like those in other prises, are limited by the lack of sufficient operating capital. Definite figures on this point, however, have been lacking
until recently, when the Wisconsin Experiment station conducted an investigation with the idea of showing the rela-
tion of operating capital to profits in farming. The statistics gathered represented the results upon many farms and
are thought to indicate quite plainly the close relation which exists
It was found in this investigation that when the operating capital, including machinery and live stock, as well as cash were $\$ 167.78$ per farm. Where the operating capital was increased to 17.7 per the total, the profits were in-
to $\$ 433.68$. When the operating capital was increased to 28.2 per cent the profits again rose to $\$ 1,628.55$. When the operating capital was 33.3 per cent the prof
$\$ 3.511 .33$.
Thus the "land poor" farmer, the maand buildings, made relatively small prof its, but where one-third of the total capital was in the form of operating capital such as live stock, machinery and cash
with which to do business, the profits with which to do business, the profits
were increased to a maximum degree. This is another argument for the establishment of an adequate form of rural of farmers who are unable to finance their business properly to add to their
operating capital and thus increase their porfits.

## Australian Beef in Am <br> The importation erican Markets. frigerated bee from Australia,

 with the promise of more to follow to bedistributed in Pacific coast cities, has been made the subject of widespread comment and speculation in the public press. Various economic reasons are giv-
en for this new commercial development chief among which is that it is airected against the big packers of the country who, it is contended, have been charging exorbitant prices for their products when The predictions with coast points.
The predictions with regard to the de-
velopment of this impcrting business are velopment of this impcrting business are rather extravagant, the claim being made
that capital has already been subscribed for the purchase of large areas of north ern Australia land and the development orn Australia land and the development of the cattle business there on a scale one time western cattle kings, while news is also current regarding the building of a number of new refrigerator steamships Possibly the anticipation of free under the new tariff law may have something to do with this new commercial tity of the contents of food the quan-

Australian meat can be brought into the package in terms of welght, measure or American market in quantities to have numerical count. The committee aption of Central United States. Up until ment of Commerce, the Department the present time the United States has the Treasury and the Department of Ag the present time the United States has the Treasury and the Department of Agof meats, but in recent years the produc- enforcement of this law announces that tion has fallen off to such an extent that it is now ready to receive recommendauntil they more nearly approach the first hearings for manufacturers, dealer world's price level for meats that has ever and others interested will be held in New been the case in this country since the York during the week of June 9 , and other great development of our agriculture. hearings will be held whenever and wherWith the falling off of a large surplus ever there is sufficient demand. Comin exports from this country the Euro- munications for this committee should be pean meat supply has been largely con- addressed to the Net Weight Law Comtributed to by the frozen products from mittee, Department of Agriculture, BuArgentine and Australia. Even though reau of Chemistry, Washington, D. countries it is quite certain that the choicer products will not be sold in the United States at a price below the world's price level, and while meat from these
sources might compete in seaboard towns with our own product, the added charges would practically prohibit its distribution in the great inland centers of consump-
tion. While this development of modern commerce may well be watched with in terest, we do not believe there is occa
sion for live stock producers in this sec tion of the United States to view it withA Livingston count manent Road
Materials. A Livingston county
reader sends us the criticism of a conthe concrete and stone roads of Wayn county and asks for our views on these
two types of roads, and gravel roads in two types of roads, and gravel roads in
Wayne county and elsewhere. The crushed stone or macadam roads do not wear well under heavy traffic con-
ditions in any place where automobiles form a considerable percentage of the vehicles traveling upon them. The loaded extent and the rapidly moving automobiles sweep the dust from the road leaving a rough and rutty surface soo is expensive to repair and again unsat isfact

## made. <br> The concrete roads do, however, give

 that have been down two or three dition where very little has beent con ed in keeping them in repair. The firs of the concrete roads laid in Wayne county are not as good as those laid after blocks at the edges where they join with steel reinforcement, which prevents chipping of the edges which produces a In traffic surface.In a county containing a large city which pays a large percentage of the
cost and where traffic conditions caused by the drawing of produce into the city are heavy throughout the year, a concrete
road would seem to be well adapted and perhaps as economic as any yet devised. But for the roads in the interior of the state and, in fact, in all except those
which are adjacent to large cities where which are adjacent to large cities where gravel is undoubtedly unusually severe
to use. A gravel road well laid and given good care is the best possible kind of
road for all but a few weeks or months during the year, and then it is not bad nor is the year, and then it is not bad, is not neglected from the start.

## GOOD SEEDS.

It is always economy to plant the best seeds obtainable. Seeds of strong vital ity and purity make better crops. Farm-
ers should test the Seeds they plant and find out for themselves if they are good. Those who have not the time or oppor
tunity of testing their seeds should put their trust in those who do test them We are most heartily in favor of the campaign of education now going on as to how to make two blades of grass grow
here one grew before. You can make our poor land good, and your good land etter by growing crops that improved nd enrich the soil. Ask for information about Alfalfa, Sand or Winter Vetch,
Cowpeas and Soy Beans. Samples and rices as well as reliable information malled free upon request. Address, Alfred Brown Seed Co., Grand Rapids, Mich HEARI
HEARINGS ON NET WEIGHT LAW.

HAPPENINGS OF THE WEEK.
National.

Early this week the United States Sular interest to Michigan people. The
Chandler-Dunbar water power nation case at the. Soo was reversed and
the $\$ 550,000$ allowed the company riparian rights by the the comper court far
held an error sinee public right in the held an error since public right in the
waters of St. Mary's river is superior to water rights of the company. A second
case involved the question of the Detroit
United Railway being a treets whem United Railway being a trespasser on
streets where the company's franchise streets where the company's franchise
had expired, the court holding that the
company was committing a tort in refusing to vacate, and that the city can comand remove their tracks. A A third service
importance settled the point that the holder of a patented article cannot dic-
tate what a retailer must sell it for. The
ourt diferentiated between thi the "mimeograph case," where it was
held that The jury reform bill fathered by Presdent Wury reform bill fathered by Pres-
ate, Monday, and Gove New Jersey Senthat he will sign it immediately, promises
The schools of Philadelphia will experiment with the plan of introducing the
study of German in the elementary trades, and if the trial proves successful
the curriculum will be changed to inby all the early study of this lanuguage
The entary students. The circuit court of Marquette county,
Mich., is attracting national attention jusi
now through now through the trial of Geo. A. Newett,
a local newspaper man, for slander, the
charge being pre a local newspaper man, for slander, the
charge being preferred by Colonel Roose-
velt, following the publication velt, following the publication in New-
ett's paper of a statement that Mr.
Roosevelt "gets drunk," appeared during the presidential cam-
paign last fall just after Mr. Roosevelt
had spoken at Marquette. A completed Monday night and jury was
were to be called Tuesday. Thesses se semi-political in nature, due to the thal
fact that Mr. Newett was defending Congressman Young, of that district, who as candidate for re-election, against the
attacks of Mr. Roosevelt, when the state-
ment was published. While celebrating, Queen Victoria's dirthday at Long Beach, Cal., last Saturture was packed giving way. The strucing the exercises. Damage suits aggre-
gating $\$ 1,000,000$ will probably be brought
against the city. A grand jury is now
making an investigation of the wrecked

 necessitated the substitution of trolley
trains for single cars, which will be made Mining corporations at Bessemer, Mich., assessments by the board of review of assessments by the board of review of
mining properties and the matter will
probably go before the courts before it is The Grand Masonic lodge of Michigan
opened a two-day session at Lansing on Tuesday
Believing that affairs of the department Believing that affairs of the department
of public works have not been conducted
along economical lines, Lansing aldermen are demanding a grand jury to investi-
gate the department. At the annual meeting of the stock-
holders of the Michigan Sugar Company. holders of the Michigan Sugar Company,
at Saginaw, Monday, it was announced
that the factories would do business this summer factories would do business this the sugar schedule by Congress.
Electric linemen of Saginaw have gone It is reported that the farmers' co-op-
erative elevator at Shepherd, Mich., has ailed through poor management
Foreign.
The Emperor or Japan is rapidly improving from his recent illness and it is Shietely recover. Shipping is completely paralyzed in the
Gulf of Smyrna by the presence of mines Gulf of Smyrna by the presence of mines
in the harbor. The steamer Nevada sank as the result of running on one of the
mines and 40 persons are reported to have
been drowned Now that the war between the Allies
and the Turks has been substantially and the Turks has been substantially
settled, the former are not agreeing over
the division of the spoils and engagements have of the spoils and engage-
garian and Greek between the Bulments have taken place between the Bul-
garian and Greek troops in the vicinity
of Saloniki. Losses are reported heavy,
with the Bulgarians victorious. The arrival of King Constantine on the seene
had a moral effect upon the contending
troops and the fighting has now ceased Luther McCarty, holder of the white. championship as heavyweight puyilist of
the world, was kitled in the first round in a bout with Arthur Pelkey, at Calgary

## Veterinary.

is usually the result of keeping animal
in fithy places, or allowing them to ea
or drink food or water that is infected or drink food or water that is infected.
The feeding utensis should be clean.
Give eeach calt that is four or five weeks.
old 20 grs. of salol at a dose three times a day, and before commencing this treat
ment give 2 ozs. of castor oil. Withou
being able to remove the cause of their

BREEDERS' DIRECTORY. CATTLE.

##  

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$\qquad$

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poland chinas
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 Lillie Farmstead YORKSHIRES
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## Markets.

GRAINS AND SEEDS.
May 28, 1913.
Wheat.-The past week has been favprabes show a general advance in both
pash and future sales. The reason for cash and future sales. The reaso for
the upwaru trend is practicall a reverse
of the conditions supporting the market of the conditions supporting the market
during the past weeks when the strong
European demand was given the creatit.
At recent sessions of the market a numAt recent sessions of the market a num-
ber oo reports have come in oo the dam-
age to the American crop. Chinch bugs age to the American crop. Chinch bugs
and grashoppers are decreasing the out-
look in some sections; in Missouri the Hessian fly is working injury to the
plant; Kansas reports lower prospects,
while Minnesota and North Dakota are suffering for moisture. On the other
hand, crop conditions in Europe show
some improvement which has eased some improvement which has eased
slightly on the demand from that quar-
ter. But altogether, conditions have favored the seling side of the trade the
world's visibe supply is calculated at
20.000.000 bushels less than a year ago. The iocal prices for No. 2 red wheat at
tais foter was 8.16 per bu Quo.
tations for the past week are as follows:

Thursday
Friday
Saturay
Monday
Tueday
Wednesd $\begin{array}{ll}\text { Red. } & \text { White } \\ 1.081 / 2 & 1.071 / 2 \\ 1.091 / 2 & 1.081 / 2 \\ 1.10 & 1.09 \\ 1.10 & 1.09 \\ 1.101 / 2 @ 1.091 / 2 \\ 1.0931 & 1.083 / 2\end{array}$



 matter whins weil probabyo hao start, in
fuence upon the resulting crop. Prices
and

 here yar pac per bu. Quotations for the
past week are:

Thursday Friday
Saturday
Monday Tuesday
Wednesday


Chicago,
 Oats. This cereal is advancing well
 ande, the present heavy demand for oats
analy storks, together
with the unfavorable watther consitions existing over a large portion of the heavy
at producing territory were prominent the local prices for standard oats was
$581 / 2$ per bue.
Quotations for the past
week are:

## Thursday Friday <br> Friday Saturday Monday <br> Tuesaday Wednesd















[^1]

## FLOUR AND FEEDS.

Flour-Jobbing lots in $1 / \begin{aligned} & \text { paper } \\ & \text { packs } \\ & \text { sel }\end{aligned}$



 track at Detroit are: No. 1 t timothy,
$\$ 14.50 @ 15 ;$ No. 2 , $\$ 12 @ 13 ;$ light mixed,
$\$ 13.50 @ 14 ;$ No. 1 mixed, $\$ 12 @ 13$ per ton hay at last weeke is a better demand for
the market is firm. Choiced figures and @18.50 per ton; No. $1, \$ 15.50 @ 16.50$; No.
$2, \$ 13 @ 14$. Straw.-Steady. Carlot prices on wheat
and oat straw on Detroit market are $\$ 8$ Chicago.-Steady. Rye $\$ 910$ per ton.
straw, $\$ 9 @ 10$;
at, $\$ 7 . @ 7.50$; wheat, $\$ 6.50 @ 7$ per ton.


Butter.-A general decline in butter


Elgin.-Market steady at $26 @ 27 \mathrm{c}$.
Chicago.-Demand here is principally
for the superior grades, for the superior grades, which are in
light supply and are kept well cleaned
up. Much of this stock is going into storage despite the fact that many buy-
ers maintain that values are still too
high. All kinds and high. All kinds and grades are lower
than last week, Quotations are: Extra $25 \mathrm{c} ;$ seconds, $241 / \mathrm{c}$ c; dairy extras, $251 / 2 \mathrm{c}$;
frsts, 24 c ; seconds, 23c; packing stock,
$12 @ 211 / \mathrm{c}$ as to quality. New York- Prices here have suffered
decline corresponding to that occurring
in other markets, but the market is rein other markets, but the market is re-
ported firm at the lower range. Quota-
tions: Creamery extras, $271 / 2 \mathrm{c}$; firsts,
263 : $263 / 4271 / \mathrm{c}$; seconds, $251 / 2 @ 261 / 2 \mathrm{c}$; state
dairy, finest, 27 c ; good to prime, $251 / 2 \mathrm{e}$
$261 / 2 \mathrm{c}$ common to fair, $24 @ 25 \mathrm{c} ;$ packing,
$20 @ 22 \mathrm{c}$ as to quality $20 @ 22 \mathrm{c}$ as to quality.
Eggs.-Good eggs continue in excellent
demand everywhere, with demand everywhere, with values very
steady at all points. In the local market
values show another fractional advance.
current offerings, candled, being quoted Chicago. - Nothing new in this market.
Receipts continue heavy but everything Receipts continue heavy but everything
of desirable quality sells readily at form-
er values, the supply of sưch stok not















## FRUITS AND VEGETABLES

Apples. This fruit is firm with prices
higher.
Dovement is greatly improved.






 New York farmers' hands limited. At
Pittsburg supplies cannot be secured to
supply the demand. The same is true at Philadelphia and Baltimore. At Cincin-
nati old potatoes are going around 75 c
per bu. The cutting off by frosts of new

## - 0 ア 000 。

 Wednesday fat yearlings and choice
handy-weights were largely a dime high-
er. The most marked feature of the
market during the week was the very
poor showing of the choicer class of cat-
tle, few being seen after Moonday. Evi-
dently most of the well finished beeves

## and to o The durin d 8.55 ,

THE LIVE STOCK MARKETS.
(Special Report of Dunning May St, Stevens,
New York Central Stock Yards,
East Buffalo, New York).
Receipts of stock here today as follows:
Receipts of stock here today as follows:
Cattle, 120 cars; hogs, 100 double decks;
sheep and lambs, 70 double decks; calves

## here today, all cattle weighing 1200 lbs. and upwards sold $10 @ 15 \mathrm{c}$ per cwt. lower

 than last week; cattle weighing bowlow1200 of all grades sold full strong and in many instances higher than last week. was well cleaned up and we look for a
steady market at the prevailing prices.
We quote: Best 1350 to $1500-1$. steers We quate: Best 1350 to $1500-\mathrm{lb}$. steers,
$\$ 8.40 @ 8.50 ;$ best 1200 to $1300-1 \mathrm{~b}$. do., $\$ 8 @($
$8.25 ;$ good to prime 1100 to $1200-1 \mathrm{lb}$. do., $\$ 7.75 @ 8 ;$ coarse plainish 1100 to $1200-1 \mathrm{~b}$.
do, $\$ 7.50 @ 7.80$ medium butcher steers,
1000 to $1100, \$ 7.75 @ 8.10 ;$ butcher steers,
950 to $1000, \$ 7.50 @ 7.80 ;$ light butcher 950 to 1000 , $\$ 7.50 @ 7.80 ;$ light butcher
steers and heifers, $\$ 7.25 @ 7.50 ;$ best fat
cows, $\$ 6.75 @ 7.25 ;$ butcher cows, $\$ 6.66 .25$;
light butcher cows, $\$ 4.50 @ 5 ;$ trimmers,
$\$ 3.75 @ 4$ best fat heifers $\$ 750$. 8 . $\$ 3.75 @ 4 ;$ best fat heifers, $\$ 7.50 @ 8$; medi-
$u m$ butcher heifers, $\$ 7 @ 7.50 ; 1$ light do.,
$\$ 6.50 @ 7$; stock heifers, $\$ 5.50$ @6; best $\$ 6.50 @$ stock heifers, $\$ 5.50 @ 6 ;$ best
feeding steers, dehorned, $\$ 7.50 @ 7.75 ;$
light common stockers, $\$ 6 @ 6.25 ;$ prime export bulls, $\$ 7.50 @ 7.75$; best butcher
bulls, $\$ 7.25 @ 7.50 ;$ bologna bulls, $\$ 6.75 @ 7$;
stock bulls, $\$ 5.50 @ 6$; best milkers and springers, $\$ 75 @ 100$; common kind do.,
$\$ 40 @ 60$.
We had an active trade here today




$\qquad$ good trade the balance of the week.
The sheep and lamb market was active
today, with prices about 15 c lower than
the close of last week; most of the choice handy lambs selling from $\$ 7.40 @ 7.50$.
Lambs weighing 85 to 90 lbs. very slow,
$\$ 7 @ 7.25$. Best wethers selling mostly at
$\$ 6 @ 6.25$; ewes, $\$ 5 @ 5.75$, owing to weight and quality. Look for little higher prices
the balance of the week.
We quote. Choice lambs, $\$ 7.40 @ 7.50$,
cull to fair do., $\$ 4 @ 7.35$; yearlings, $\$ 6.50$
 5.25 ; cull sheep, $\$ 3 @ 4.50$; veals, choice to
extra, $\$ 10 @ 11$ fair to good, $\$ 7 @ 10.50$;
heavy calves, $\$ 4.50 @ 6$.


THE MICHIGAN FARMER

THIS IS THE FIRST EDITION. In the first edition the Detroit Live
stock markets are reports of last weok;
all other, markets are right up to date.
Thursday's Detroit Live Stock to markets
are given in the last edition. The frst
edition is mailed Thursday, the last edr-
tion Friday morning. The first eitition is
mailed to those whe care more to get the
paper earry than they do for Thursday's
Detroit Live Stock market report. You
may have any edition desired. Subscrib-
ers may change from one edition to an-
other by dropping us a card to that effect. DETROIT LIVE STOCK MARKETS. Receipts, 884. Alttle. Alades strong at last รัธีి
 4.50@ 9. c
ulls, $\$ 6.5$
$\$ 6.25 @ 6.75$
feeding st $6.25 @ 6.75$
eeding st
eeding st eeding $\begin{gathered}\text { steers, } \\ \text { steers, } \\ \text { en }\end{gathered} 80$ heifers, $\$ 5 @ 5.50$; milkers, $\$$ large, young, $\$ 40 @ 45$. \& R. sold Sullivan P. Co. 6 steers
Spicer \&
av 911 at $\$ 7.30,3$ do av 853 at $\$ 7.30,1$ ing 820 at $\$ 7.30,1$ bull weighing 1200 at
$\$ 7,6$ cows av 1103 at $\$ 6.25,1$ do wetghing
1020 at $\$ 6.50,1$ do weighing 1050 at $\$ 6$, 8 butcher
cows av
butchers
18 do av
$\qquad$
$\qquad$
$\qquad$
 at $\$ 7$; to Sullivan P. Co. 10 cows av 1062
at $\$ 6.25,3$ heifers av 800 at $\$ 7.40,2$ cows
av 1040 at $\$ 6.25,1$ do weighing 830 at $\$ 5$,
1 steer weighing 860 at $\$ 6.50$, 5 cows av
 weighing 1220 at $\$ 7.50,1$ bunl weighing
900 at $\$ 6.25,3$ do av 1580 at $\$ 6.75,11$
steers av 1016 at $\$ 7.60,4$ cows av 990 at do. $\$ 9$.
w.
ws, w lambs, $\$ 7.50$ We; fair do., $\$ 7 @ 7.25 ;$ commmon
do., $\$ 4.50 @ 6$; fair to good sheep, $\$ 5.25 @$
d.50; culls and common, $\$ 2.50 @ 4$.
Bishop, B. \& H. sold Sullivan P. Co. 33
lambs av 55 at $\$ 5.50$. 2 sheep av 110 at lambs av 55 at $\$ 5.50,2$ sheep av 110 at
$\$ 5,4$ do av 105 at $\$ 4 ;$ to Thompson Bros.
30 lambs av 70 at $\$ 7.50$; to Mich. B. Co.
40 sheep av 90 at $\$ 5 ;$ to Hammond sheep av 90 at $\$ 5$; to Hammond, S. \&
o. 204 lambs av 68 at $\$ 7.35$; to Mich. B.
o. 40 sheep av 95 at $\$ 5.50$, do av 100
. $\$ 4.50$; to Kull 11 do av 88 at $\$ 4.50 .24$ at $\$ 4.50$; to Kull $\$ 6.50$; to Young 44 do av
78 at av 60 at $\$ 7.25 ;$ to Barlage 17 spring lambs
av 48 at $\$ 8$, to Parker, W. \& Co. 104
mixed av 78 at $\$ 6.40$; to Mich. B. Co. 1

 Heceipts, ${ }^{5346 \text { Market steady with }}$ Mark
Wednesday; $10 @ 15 \mathrm{c}$ higher than the close Range of prices: Light to good butch-
ers, $\$ 8.75 ;$ pligs, $\$ 8.75$; mixed, $\$ 8.75$; stags
one-third off. \& H. sold Hammond, S . \&
Bishop, B. \& H. Co.. 1 cow weighing 930 at $\$ 5.75 ;$ to Bres-
nahan 1 bull weighing 1320 at $\$ 6.6,1$ cow
weighing 780 at $\$ 4,1$ bull weighing 1390
at $\$ 6.50$; to Mason B. Co. 10 steers av 910










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 25 BEAUTIFLL HIOHH GRADE,



## Their Memorial Day Guests.

By MRS. F. NISEWANGER.


#### Abstract

It was early in April that John Bran- one of the ministers is giving them an don, the bent commander of Morley Post, address out of charity," Edith Loring exn, the bent commander of Morley Post G. A. R., called a meeting of his com rades to make arrangements for the com ing Memorial Day. There was such a tiny handful of them, compared to the strong band that a few years ago met in the hall for the same purpose, that they almost shivered with the chill and lone liness of it. "Well, boys, what are we going to do?" Commander Brandon asked informally Someway, parliamentary usage and all stiff formality seemed out of place here. "Same old thing, I suppose," sighed Comrade Williams. "Get one of the preachers to donate us a talk, and get the teachers to learn the children some pieces and songs, and get the women to decorate the Opery House and make bou quets for the graves." The old men listened half-heartedly rade Williams did. "Seems like all patriotism's dyin' out of the present generation," Comrade Ellis regretted gravely. "I s'pose they'll do in these things if we ask them to, but it almost seems like as, hate to do it again, Comrade Brown straightened a iittle spring leaned a little more heavily on his cane than usual. "Semens like It too tired to do much of anything," he sighed. "It don't seem of anything," he sighed. "It don't seem to be possible to to much educatin' of the young, and the boys sleepin' over on the hill know our hearts are all right hill know our hearts are all right. Couldn't we just get some flowers and on the graves? take us over to put them on he graves as tong as there are any of us ent


undecorated,"
The old men pondered seriously and
regret tully, but finally deicied to follow
Comrade Brown's sugestion.
 A week later a very different meeting ized the previous season had that organspring they wanted new uniforms, and a bright program, had been arranged for
their benefte by the
Tit mes patenkean hierally and, at the abeo of the prosam Rov sargentit leade people remain for a short business meet ested. When their elders had withdrawn young Sargeant called the meeting to orconnection with their personal hanor and
cor ann and that and his attention and he felt that he should
"We have been disgracefully selfish and thoughtless," he began emphatically, then
tola swifly and impressively of the ittle
C member of Morley post, had attended the
 when he got back from the meeting even decent enough to do that!", he railed
at himself scornfully. "I think it is about time this vaunted "younger generation'
forgot bana concerts and ball games long
to enough to entertain our old soldier friends
aitle while. What is your pleasure in Halr a dozen young fellows sprang to Ons of Veterans'," one said promptly
Then Bennice Rowell hastily addressed he ineeting. "Not now, Mr. President," she exclaimed; "We girls want to be in
his. y 保itely, too. Imove that we or-
ganize a Memorial Association to an descendants and interested friends of The veterans are eligible.' Bernice's motion was seconded, thus
coming before the meeting for discussion, and, when finally put, was carried unanmonsly.
One dollar yearly dues were decided
upon, for incidental expenses and "so we upon, for incidental expenses and "so we
can have money to hire a good speaker
sleep tonight till I've seen 'em all and
asked 'em, so I guess I'd better be off."
A few days later each member A few days later each member of the
Post received a neat invitation asking him to be the guest of the Association on to be ready to go to the G. A R. hall as exercises at the opera house would as exercises
begin promptl
So Memorial Day drew near with a new interest about it in a satisfied little feelion of having something in the nature f a surprise withheld.
went to the homes for the veromptand took them to their hall, where they always met to get their badges and the flag behind which they marched to the them here in the form of Bernice awaited with a basket of flowers on her arm. She met each old friend with a handclasp and a smiling greeting, and pinned have hosts of flowers for you to take "We the cemetery, but we wanted you take to some, too," she explained with a gentle smile, the shadow of the coming time, when there would be no veterans' coats eyes. Trembling lips murmured "Thank you," and loyal hearts beat a little quicker be-
cause of the loyalty of "the younger gen-

Vacancles in the ranks come fast in these later years and it did not take the opera house, but the procession formed, the band leading the way afoot, and don for the veterans' wives who had been asked to meet there and await them. a committee from the Memorial Associable line of the members to the seats rehouse was almost as still as a vacant building but throbbed with sympathy and Commander Brandon's daughter, a sweet young matron with her little ones
about her, marked the short line with brimming eyes and hid trembling lips in by. One felt that there would come a Memorial Day after awhile when she

## AT ANDERSONVILLE. By MRS. M. B. RANDOLPH.


Merciless its arrows that pierced their reeling heads, Save where,
Sickening the odors that rose to ether's dome
Till stoutest-hearted 'mong them sighed and

Across the fatal "dead-line" he dared not pass in life A little blue-coat laddle was borne from pain and strife;
Upon his peaceful' features the mystic sculptor-Death-
Had chiseled lines of beauty In rough-hewn morgue or "dead-house," outside the palisade,
By stranger hands and hostile his youthful form was laid, Waiting for the moment when no funeral drum
Should herald his approach to trench that served as tomb. At doorway of the "dead-house" another laddie stood
Gazing on the "enemy" in sad and tender mood;
A scion of the "chivalry" whose color was the gray, A scion of the "chivalry" whose color was the gray,
A transient guest of Anders'ville that sultry summer day.




 No more was hated foeman this northern soldier lad,
But boyish friend and comrade, the same as those he had. All bitter thoughts and feelings, in that solemn hour, Instead, the gentle teachings, ,learned at his mother's knee,
Replaced his southern "honor" with truer chivalry. And as they bore the "Yankee" boy to dismal graveyard nigh But youth to youth responded, and he walked behind the bier
He alone the mourner, and his alone the tear.

They sleep-the northern heroes-where the winds of God They sleep-the southern heroes- where the pole-star's light Both alike they struggled through the long, hard war; Both alike we'll laurel when the drum-beat rolls them
celebrated it, because her father's place stick his head out, then the other would
would be vacant.
follow. "This is the place we have been
It seemed as though the children had looking for," they seemed to say It seemed as though the children had looking for," they seemed to say, by never before sung or spoken so well, and
their pretty drills and poses were withLawyer Tomlinson rose to give his address. The veterans settled back, proud and expectant, as it really did mean a great deal to them to have a speaker At the close of the exercises the autos were waiting to take them and their decorate the graves of comrades there and to perform the last solemn ceremony everything was over when they left here, but a drive in the country, timed to last until just about six o'clock, had been planned and was enjoyed to the utmost. On the return they were taken to the dent the young people had a tempting hot supper all ready for them.
Comrade Rice confided to his wife. "Noth in' wouldn't surprise me now-not even
to see angels.
and been ministered we been seen' them Rice answered softly. trade Jones as they came out on the comafter supper and found the autos still waiting.
The young drivers nodded, smiling, too. home and go to bed."
The wives were taken to Mrs. Bran don's for a quiet evening together, and park. How old eyes did brighten when there -a splendid was prepared for them portable seats about it, a pile with comone side, and rugs and blankets in case any should feel the n
corner of the pard withdrew to the farthest corner of the park, where it softly played
all the old patriotic airs that "the boys" ire and entertain any who chance y to be abroad, that the veterans might be be-forgotten evening of exchanged confdances and reminiscence
At nine o'clock, when the lights of slowdarkened streets, John Brandon rose to his feet and commanded gently, "Comtrades, uncover. heads bent reverently as a obeyed and ert prayer was uttered, and when the young people," ended, "Amen and amen,"

## HELPING THE SQUIRRELS.

Susie and Jack loved to play in the bi grove just back of their house, for there Birds of many interesting things there. among the trees, and sometimes little squirrels ven
watch them.
One day they saw two squirrels come out and frisk upon the fence. They sat
there several minutes chattering vigorously
whispered to Jack they are saying,' Susie
"You know squirrels can't talk!" Jack
exclaimed.
"Of course, they can talk, in squirrel
language," Susie insisted, "or how could they ever make each other understand what they want? Let's be right still, and watch, and we will learn what they
are saying." are saying.
After awhile the little squirrels jumped from the fence, scampered up a tree,
stopped where a bluebird had built a nest in the early part of the season, and again began a spirited chattering.
about," said Susie. "They are talking to build a home where they can live and raise some cute little baby squirrels. But could show them the place where the wood-pecker lived in the hollow of that old oak tree by the fence last yea
am sure that would just suit them."
"I believe it would make a good home not speak squirrel language, the thing for us to do is to keep quiet and let After their own choosing.
many trees the hollow oak and again began to chat-
"Jack, they are going to live there!" exclaimed Susie, "and we can watch them When home.
When next afternoon went to the grove very busy putting their new home in order.
"Let's help them,", said Jack.
"Why, we can't," said Susie.
don't know how they want it built; b
sides if we went near it would the dear little things away ". "But there is a way we
But there is a way we can help, and frighten them," insisted Jack. "We can put something to eat at the foot of
the tree so they wont have to stop work and go away to get their meals,"
and go away to get their meals,"
"That is a fine plan," Susie agreed.
So, every day the children brought peanuts, bread, and other things they thought where the little workers and left them to find them.
While the squirrels were building their dear little home in the wood-pecker's old nest they became so accustomed to
Susie and Jack that when they saw them coming they would hasten to the feeding place to meet them. By and by, when the little baby squirrels came, they, too,
became quite tame, and the whole squirrel family would eat from the children's When mother and father learned will prove to you children, that even the and creatures of the forest appreciate ned kindness.
that the same good. Father placed us all His dumb gave gentle and patient in our treatment them."
Little Willie-Say, pa, why do they stamp eagles on our coins?
Pa-Probably as an emblem of their swift flight, my son.
"Was he a good preacher?",
make you sermon was stupid enough $t$ enough to keep you awake."

Willie-Did you have an excuse for Saying home from school today?
Earlie-No; but if father licking I expect, Ill have a good excuse or staying home tomorrow.

George, dear," said the young wife, "Yes, darling," replied the knowing George. "It's birthday."

## THE HANDLE ON A HAT

## by alonzo rice.

You are going out into the world, my
Its busy scenes your mind will soon em-
And I know advice is cheap,
inch reward for each kind action

## Kindly promise me you will remember

And the latter words I say,
Don't forget to use the handle on your
usk a smile of recognition to a friend,
If you meet some one unknown's end
Speak to him in kindest tone,
For childhood shows the man as morn All the day! therld about us recognizes that And can tell your future way,
By the using of the handle on your hat!

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haven't got the watch as your pocket in a couple of hours, it's because you don't want it bad enough. The watch is the real thing, 16 -size,
nickle case, stem-wind and set, second
hand, fine watch movement, and keeps hand, fine watch movement, and keeps
absolutely correct time. It's fully guarabsolutely correct time. It's fully guar-
anteed and if you don't hammer tacks with it or take it apart, in fact, if you
will treat it as the friend it will prove nd it will prove
will keep it in

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## The Wife Who Works at Home is a Wage Earner.

Whave been hearing a great deal be spent. Her word should have equal lately about the chivalry of the force with the husband's and the chances


#### Abstract

his family. Those opposed to good as his suffrage have assured us that the Am-


 erican man considers his wife his comhe has everything sha nat the justice would give her. The Englishwom ause over there man is woss told, be at home, bless your sweet little heart, woman runs everything anyway, so why should she want to vote? The American man is just naturally so easy and obliging that he can't help giving woman anything she wants, so there isn't the least reason in the world why she would wantto help make laws or decide who shall make and enforce them
There is a great deal of truth in all this n some cases, but looking over the field erican man is generous with woman so if it is going to make him dig down in

I always admired that woman in "The
Second Mrs. Jim." She was middle-aged when she became "The Second Mrs. Jim" and had become used to spending her own money. "Jim" allowed the "butter and egg" money would run the house and she could worry along with no spending money, the same as the first "Mrs. Jim" had done. The new "Mrs. Jim," however, allowed" she would just put the money rom butter and eggs in the bank along ach have" y ind draw when

There would be more happy homes ubmission is a good her example. Wifely bands, but it doesn't tend to make happy to in this year of grace.

## LABOR SAVING DEVICES.

alk.
How many of the women who read this handle as they choose? How many have with exactly as they please, and no planations demanded afterwards? ng. A few scattered voices lay claim to the dollar, but I'll wager even they have to account for 50 cents of it. If it
was put to actual count I'll bet the numcoker, say, without arguing and explaining and cajoling and scolding for weeks fingers of my two hands. Yet our Amerive their wives even too much liberty. The troube too long agreed to the idea that usband does is what brings in the mono. say how it shall be spent, and we have Would not the work we do bring in money if we were doing it for someone else? It certainly would, and a good
round sum, too. Suppose every keeper in Michigan were to be taken sick uty. How long would it be before the husbands would have to admit that the wives were wage earners? Where could
they get another woman to come into their homes and do for money even a half of what the wife does for her board
and clothes? By paying $\$ 5.00$ or $\$ 6.00$ a week a woman might be found who would come in and get the meals and keep
things reasonably clean. But she cer-
tainly would not care for the fowls and tainly would not care for the fowls and
young stock, make the garden, tend the young stock, make the garden, tend the
fruit, do the mending and sewing and darning and looking out for waste, that wife saves in watching the little things, would pay the wages of a good girl in many homes. Yet how many are all unwilling to admit tha
Now I do not wish to advance the theory that every man should begin to housework. Wives do not want to be paid, they want to be considered equal partners. And a partner surely has a
right to his share of the profits without making a fuss about it. Few men could ive the wife $\$ 5.00$ a week for her wringer are three time-savers that no on her just share of the income, and given mangle to this list and thus save many her just share of the income, and given mangle to this list and thus save many
it freely and gladly without having to ask tiresome tedious hours of work? Washit or demand it, or steal it if worse come to worst. The faithful wife certainly helps to earn have her tablecloth well ironed and the hand. When we can find an implement hat will do the work of a pair of hands avail ourselves of this help? would accomplish so much in any branch of his work as the vacuum cleaner does buying it? help to be had in the farm home, and these labor-saving devices for the home cost only a fraction of what the farm
machinery cost. Besides, many of the home implements are used daily while the farm machines only a short time durmachinery every ten or twelve years while many of the home conveniences last a life time.
Woman's work is just as important as man's, although it is man's work that
brings in the larger part of the income. But when the farmer's wife is disabled is then (and often only then), that he realizes that like the number ten, he is
the one but that she is simply nought is a mistake. Can the busy farmer's wife who is lone handed, with bushels of cherries to cick and can, afford to do without a cherry pitter? Is it true economy for
her to make mince meat by chopping the
ingredients when a small food grinder would do the work in a third of the
time? There are very few farm homes quipped with a mangle, though about ree-fourths of an ordinary ironing can e accomplished with this machine in 12 minutes as can be ironed in one hour by $\$ 25$.
Sewing machine, washing machine and e a luxury, but every woman likes to hand. We have all demonstrated
every time any large sum of money is to hand. We have all demonstrated the
fact that well ironed clothes stay
much longer, thus saving washing.
Alcohol, gasoline and electric irons ar all labor savers, and a good ironing board ing on a table. A carpet sweeper pays a big interest in the saving of time and labor. They really pay for themselves in
the saving of brooms. We have used one the saving of brooms. We have used one
a dozen years and it still does as good ork as when new.
The fireless cooke
The fireless cooker is another conven many problem help the housewife solve which is no small item. Many foods, such as cereals and meats, are really superior cooked by this method. When
business or pleasure calls the housemother away it is a great satisfaction to know er away it is a great satisfaction to know
the men and children can have a warm the men and children can have a warm fireless cookers with the plates made iron to be placed on the stove to heat will be found the most useful. The refrigerator is a great help in preserving food; physicians claim they
save much sickness. But few farm homes have ice. A cement trough with water pumped by the wind-pump is a common
method of cooling. The centrifugal cream separator has done as much for the farm home as any one invention. The
farmer and the cow are like the Unite. States, one and inseparable. No farmer can get along without the cow and thereof the separator is no more work than caring for the utensils of any gravity system. Caring for just the cream is much
less work than caring for the whole milk. Sum it all up, the separator not only Many women, even after purchasing la-bor-saving devices do not give them a
fair trial. We know one woman who discarded her breadmixer after a coupl chance, and thus dismissed an efficient

## A PI(E)OUS SUBJECT.

## by MARy CLARAK.

It is claimed that the 'pie belt' of the
United States extends from the to the Pacific, east and west, and from he Gulf of Mexico to Canada, north and yarn about the city boarder who asked his country landlady what kind of breakply, "Open-faced, cross-barred and kivered, all apple.
Every cook knows how to make apple weet milk is used for moistening instead fater, that the pie will be much betare especially if the apples are the Ben Davis variety? Ground cloves also make meg. flavoring than eimnamon or nut Rhubarb pies are much improved by a small slice of lemon, and rhubarb and
seeded raisins, "half and half," make fine
$\qquad$
$\qquad$ one berry," and if a couple of tablespoonfuls of flour are mixed with the sugar, Huckleberries make the favorite pie for most people, and they can be dried and black surabstitute for the little dried ants make pie that is "easy to take," cool, then well sweetened and a table spoonful of flour added to each pie. It
you want a substitute for pumpkin pie just scrape and boil a few carrots, run hrough a colander and make just like pumpkin pies. You can't tell the dif-
$\qquad$
$\qquad$ cust, one small cup of sugar, half a cup illing crust thre sweet milk, to finish nutmeg over top, and bake in medium Make imitation lemon pie by soaking scant cup of fine bread crumbs in pint of weet milk, in which has been beaten two

## spoon of lemon extract. Bake in one crust, when baked, cover with whites of

 crust, when baked, coveggs beaten, and brown

## RECIPES.

Pieplant Pudding.-One cup and a half rhubarb, three tablespoonfuls maple syrup, three tablespoons of melted butter, one egg, one cup of buttermilk, one tea-
spoon of baking soda, one cup spoon of baking soda, one cup of flour, sifted three times, one-quarter teaspoon
salt, one cup granulated sugar, half salt, one cup granulated sugar, half a
teaspoon of strawberry extract for flavoring, half cup of rolled oats. Bate in cate cups until nicely done. Serve with cake cups until
on sauce.
Maple Sugar Sandwiches.-Thoroughly mix one cup of maple syrup with one and one-half cups of nut meats prepared by running shelled peanuts and blanched almonds through the meat grinder. Spread on slices of buttered bread.
Strawberry Tapioca.-Soak one cupful apioca in cold water over night. In the morning, add two well beaten eggs, one cup of sugar, a bit of salt, pour in hot milk until the tapioca is covered. Flavor with vanilla. Bake until it is clear and soft, glazed a golden brown. When done, emove from the oven. Have a quart of strawberries ready when it is cool. Place layer of fruit in the bottom of the salad dish, dress with sweetened whipped cream, then add a layer of the prepared tapioca, then a layer of fruit with whipped cream, and so on, until the tapioca has been used. Cover with a layer of
the fresh strawberries rolled in sugar, the fresh strawberr
and serve.-B. I. D.
Cream Puffs.-Put one pint of boiling water in a small saucepan, and half a pound of butter. When melted put in a pint and a half of flour. Stir in, being
careful not to burn. When thoroughly mixed remove from the fire, cool and mixed remove from the fire, cool and
stir in five unbeaten eggs. Bake on buttered tins for 20 minutes, Bake on but-
cut the sides and drop in the cream. For the cream beat one egg, add half a cupful of sugar and half a cupful of flour; boil one pint with a small piece of butter. Stir until thick, flavor with extract of vanilla.
Pork Pie.-Cut two and a half pounds of the thick end of a loin of pork into hree-inch slices. Place a layer at the bottom of a baking dish. Add a sprinkling from a handful of parsley and one onion chopped finely, and a dusting of pepper and salt, then a layer of pork, and seasoning, until the dish is full. Cover with a cupful of hot water and a spoonful or two of catsup. Place a tin cover over the dish and allow it to bake in the oven for at least an hour and a half. Baste occasionally, and when the meat becomes tender remove from the stove
and put on a cover of puff paste. Return to the oven and bake until brown. Cracker Jack.-One cup of molasses,
two cups of sugar, one tablespoonful of two cups of sugar, one tablespoonful of
butter, two tablespoonfuls of vinegar. butter, two tablespoonfuls of vinegar.
Boil until it cracks in cold water, then Boil until it cracks in cold water, then
take from the fire, add a half teaspoonful of soda, beat briskly and pour over popof soda, beat briskly and pour over pop-
corn and chopped peanuts. A cough candy is made of slippery elm, flaxseed and sugar. Soak a half-pint of In another cup put broken bits of slippery elm bark until it is full. Cover this also with half a pint of boiling water, and let it stand for two hours. Strain the flaxseed and slippery elm through a thin muslin cloth and save the liquid. Add a pound and a half of granulated sugar to it. Boil this syrup for ten min-
utes. Add juice of a lemon and boil until it forms candy. Test it from time to time by dropping a little in cold water. The moment it is done pour it on white paper spread on biscuit tins and let it
harden. As soon as it begins to cool beharden. As soon as it begins to cool beso that it may easily be broken into lozParsniped candies.
Parsnip Pie.-Boil the vegetable in two waters, after which remove the hard pulp; beat up an egg with butter and sugar, the same as for making and pastry, adding to it sufficient milk to make a custard consistency; line a plate with rich dough, fill it almost with the parsnip pulp, and pour over it the custard. You may strip it or leave it plain and spread with meringue. Bake as any ordinary pie.
Cucumber
Cucumber Pickles.-One gallon of vinegar, one cup of sugar, one cup of ground radish root. Put this in a jar and whenever you pick cucumbers' stir the vinegar before putting them in. These will keep a year without canning.-Mrs. S. L. H.

Salmon Croquettes-Equal parts of
canned salmon and Irish potatoes, mash-
ed fine and seasoned with salt and a little cayenne. Add one egg, well beaten,
make into balls, dip in egg and cracker crumbs and fry a delicate brown in very
hot grease.-Mrs. J. J. O'C. into one quart of flour, add half a teaspoon of salt, mix thoroughly, separate and milk to the flour mixture. Beat for five minutes. Put two teaspoons of baking powder right in the center of the stid in lightly the well-beaten whites of the, three eggs. Pour the mixture in a small pitcher, grease the waffle iron with iron very hot, pour in enough batter to cover the lower part of the iron and
when brown turn the handle and bake on the other side. Grease the iron after ter and maple syrup.
Cream Cookies.-One egg, two cups of
sugar, cinnamon, nutmeg, salt, two cups sour cream, thick; two teaspoonfuls soda, good measure; half teaspoonful of cream Baked Hamburg Steak. - Take one beat Hamburg steak. Add half cup of bread crumbs, butter size of a walnut, salt and pepper to season, Form into a rour. tablespoonful of water should be placed in the baking dish and the meat basted either served hot or sliced cold for luncheon.
sons.

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Soil cultivation: 1 . Why cultivat
hen cultivate? 3. How cultivate.
Song.
Stunts in tongue twisters.
Results of teaching agriculture in our
schools this year, by an eighth grade pu
parent.
Mock school meeting, conducted by the
WHAT IS TRUE CO-OPERATION ?
The very air seems saturated with talk co-operation. Farm papers are full of
Agricultural meetings discuss it. The it. Agricultural meetings discuss it. The missions abroad to still further agitate he subjec
We say, the air is full of co-operative
moisture, and, we ask, when will it preand practical question and one pertinent cerns us individually and collectively, for devolves upon us to condense this vaporous co-operation into applied co-op-
eration. We are the ones who must put some of these theories into practice-","
in your small corner and I in mine."
the overworked are relieved, we mus
help relieve. If the 35 -cent dollar be comes the rightfully divided doll
must help in its rightful division.
It certainly rests heavily upon us of
the Grange to seek out and make known existing cases of co-operative effort and
instances sometimes will serve as seed
among us for this purpose. For instance,
let us tell abroad of the employes of a certain co-operative creamery who rigged
up a barrel churn and attached it to the
creamery machinery in such a way as to
do their laundering with the surplus
steam and power. From this grew the
formation of a co-operative laundry as-
sociation which built a neighborhood
laundry, adjacent to their creamery and tendant backaches and "pick-up dinners" in more than 200 households. Or, again my neighbor, Smith, keeps chickens and but no mowing machine. Smith's neighhor Brown has a machine but does not cows; so Smith allows Brown to cut plies Smith with milk.
In these simple, neighborly exchanges lie powerful seeds of eo-operative possibut spirit here is ultimated in works. And now we come to the gist of the whole truly ready-that is, willing-to
erate we will co-operate; and to do so will desire that every other person in himself. Everyone must begin in this movement over against his own threshhold. Every Grange, every Club and ev-
ery other group must find its own point other group must find its own point ditions and begin there to work together.
JENNIE BUELL.

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