

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


WHEN we hear that there is a ten thousand acre farm in Michigan
that has been reclaimed by the that has been reclaimed by the
dike system it arouses our interest. On visiting this farm, the writer was amazed at the methods that are used to change,
swampy land into a farm that is highly swampy land into a farm that is highly productive and very profitable. Mr. Jacob DeGeuss, manager of the Prairie Farm, Saginaw county, is the type of a farmer who understands big business and is capThe work on this farm requires the as The work on this farm requires the as-
sistance of 260 men; a small town has sistance of 260 men; a sman this little village is in-
sprung up and sprung up and this little village is in-
habited only by the employes of the Prairie Farm. Ten thousand acres of Prairie Farm. Ten thousand acres of
land have been reclaimed by a system of dikes and this year they are growing 1,000 acres of mint, 650 acres of beets, and the rest of the 4,500 acres under cultivation has been planted to general crops. The reclaimed lands were marshy, and considerable trouble with the water. Two years ago it was up in the buildings on the outside of the dikes and while other farmers were having their crops ruined, the Prairie Farm employes were plowing on the reclaimed land. The dikes have been constructed with two large steam plows and the water from the land is pumped into a series of ditches and canals, the total length of which is seventyfive miles.
We were driven across this farm and the miles of streams seemed to carry us to a foreign country where all was
strange and unfamiliar. The methods strange and unfamiliar. The methods used on this Prairie Farm in Michigan
are very similar to the dike system that are very similar to the dike system that
is used in Holland. Men are given the is used in Holland. Men are given the privilege of hunting muskrats in these
streams and serve the double purpose of catching the rats that might undermine the dikes and act as inspectors to guard against any breaks in the earth that would allow the water to rush in on the cultivated land.
The broad expanse of smooth land seems foreign to the farmer in Michgan and the little rivers flowing around the fields mark them off like islands that have been made to order. The scene recalls what we have read of the dike farms of Holland and the wonderful canal and ditch systems built centuries ago in China. The soil i rich and black and the large num ber of men plodding back and forth
across the broad fields remind the across the broad fields remind the
visitor of pictures of the peasants on visitor of pictures of the peasants on
the big estates in Europe. Mr. DeGeuss the big estates in Europe. Mr. DeGeuss
said that the people in this country had said that the people in this country had
the impression that most of the farmers the impression that most of the farmers
in Holland were market gardeners and in Holland were market gardeners and
cultivated but a few acres of land, but cultivated but a few acres of land, but many fine dike farms in Holland that have thousands of acres of well cultivated and produc-
tive land. tive land.
Mr. DeGeuss has had little trouble in hiring good men for the farm work but told a story of a foreigner who came
from Chicago to work from Chicago to work
and it illustrates why some men will congregate in the city but refuse to work on the man stood up to his ankles in the mud and as he gazed blankly into the distance remarked, "Chicago is all right, America no good." The farm employs a varied class of labor and the
blacksmith and wood-


The Railroad Run a Spur Track to the Elevator to Handle the Products of this 10,000 Acre Farm.
in its machinery and well built in every particular. There are ten miles of fine
roads on the reclaimed land and 1,660 implements are needed to farm the exensive acreage under cultivation, and this is increasing at the rate of 500 to 600 acres every year.
Mr. DeGeuss hires Slavs and Bohemians to care for the sugar beets and they contract to weed four inches on each side of the row and the other twelve inches is cared for by the regular employes of the in the beet fields has been a serious proposition on this Prairie Farm but it was solved by planting barley along with the beets. The barley would start first and the beets could be cultivated before they were up and the weed crop was thus delayed in its start and was much easier to control. Mr. DeGeuss believes in alfalfa and buys the finest seed on the market regardless of the price. He does not inoculate and believes that inoculation decreases the germinating power of alfalfa.
Seventeen hundred acres of land have been limed with the refuse from sugar factories and the stock furnished suffiacres. Sugar beets have been running acres. Sugar beets have been running thirteen to sixteen tons per acre with a
net profit of $\$ 5.00$ per ton. There are net profit of $\$ 5.00$ per ton. There are
one-hundred and fifty Herefords on the place; the cows raise their own calves and Mr. DeGeuss is selling the steers and retaining the heifers. A fine herd of registered Holsteins is supplying milk for the farm village and the employes receive their milk for six cents per quart.
The company owning this farm made no mistake when they selected Jacob DeGeuss to be their farm manager. He is a type of the business farmer who knows scientific agriculture and has the capacity of handling a great mass of detail. He is responsible for the organizing and equipping of the employes' baseball team and he encourages the men to be upright
in their work and saving in their habits. in their work and saving in their habits.
$H e$ is always in close touch with his men He is always in close touch with his men and has hobbies just like the rest of them. He loves horse racing first and
baseball second, and is a worthy example baseball second, and is a worthy example of the big business farmer who can mix
work and pleasure without allowing the work and pleasure without allowing the Mr. DeGeuss made the following statement regarding the out'ook for agriculture in this country: "If we cannot raise twice as much on our land as we have in the past, some day people will starve in this country." He is managing the
Prairie Farm with due Prairie Farm with due consideration for crease of production. It is well werth the time of every farmer to visit worth these big enterprises where they are study-
ing the problems the soil and striving of place agriculture on to business basis the same as the corporations in
any other industry will be an inspiration to the man who neglects many who negties on his own farm and it shows the possibilities of doing big
things with when capital, brains and energy are directed toward its cultivat:on Such an abject lesson is also of peculiar interest on account of of undeveloped swamp land.

UUGGESTIONS GATHERED AT THE
RECENT ROAD CONGRESS.

So voluminous was the material presented at the six-day session of the Road Congress that it is impossible to Road Congress that it is impossible to matters of importance and since much of $t$ concerned only the professional road builder, we have for the benefit of the buider, we have for the benefit of the
Michigan Farmer readers, gathered such items as would be helpful and interesting o the average citizen and taxpayer.
Encouragement should be given to the
levelopment of a school of road engineers who are not only able to build the more expensive types of roads but alzo a school of men who can use funds economically
in the construction of common roads. The sequence cad builders at the convention is, first, the improvement of ordinary roads, next lines, and finally the national and international roads. It is by following this rogramme that the masses will be educated to the significance of improved ways when the time for their construc tion has arrived. provided for before the road is built. If is impossible to have available funds or keeping the road in repair, then the
oad should not be constructed. Roads should kind shows tended to Much temporary road work has been
done and found to be very unsatisfactory. It wastes money and is certain to
disappoint taxpayers and patrons of the oad.
Main roads should be constructed so as
to carry their maximum load during; the ; most trying weather conditions. If not the surface and
maintenance higher A careful study should be made of a
road before laying it out. Not only its resent use, but the probable future should be considered, since it is future
demands that the road is being prepared meet.

## issu

issuing bonds to raise money for construction, the greatest care It is observed by road officials that too arge an amount of money is being exbridges. The general impression is that bridges and culverts should be built o tone or concrete, or other permanent
materials, thus avoiding further expense or their maintenance. urfaced roads in the United States. Wide experience has taught us that p:oper grading and drainage and of the year road drag at the right season of the year,
will make a very serviceable kind of will make a very serviceable kind of
road of this class. Some states have dopted a compulsory drag law which rovides funds and men to look after this s states having such statutory measures. end this puddes the surface worke When wet, has sudates ather inface, enab-
ling the road to shed water; it also keeps The use of the wide tire wagon wa recommended. Narrow tired wagons are
Known to be as hara, or even harder on
many types of roads than are automomany tyes of roads than are automo
bites. Wagons oonstructed so that hind
wheels run outside of tront wheels are specially to be desired by the road The New York Assembly has enacted
law which gives the state supervision of the construction of all roads within the
state. The counties pay all the way from nine to 35 per cent of the construction
cost of state roads. The amount of a countrs's appropriation depends upon its
population. The money raised by population. The money raised by a counstate engineers.

## A new system of road maintenance is

 being taken up in some states. In New the system used by the railroads, section gangs are employed and provided with proper equipment, such as steam pairs may be made at the least possible pairs may be made at common roads are being put to greater use at the present timethan they have in years gone by. Thirty years ago, two out of every three per-
one out of every three is a farmer. T cultural classes, requires the transporta-
tion of exceedingly large amounts of farm tion of ex
products.

## MANURE LOSSES.

A heap of barnyard manure has an odd who has barn to stay put. The farmer against the barn is more likely throwing it away than saving it. A hundred revolutions are going on in that pile of ma Some of they are not bettering it. monia and evaporating. is becoming am nitrates which dissolve when the rain comes and sink into the ground. And,
after a more complex and scientific fight after a more complex and scientific fight about it, s
Now nitrogen, we are told, is worth learned statistician informs us, produces at that rate, $\$ 10.40$ worth per year. It's oth saving.
When liquid and solid manures are kept more rapidly "leak" and lose value much more rapidly than when stored separate
ly. The more compact it is, the less los It is far better, when possible, to apply the manure direct to the fields instead of piling it up for some future time with the resultant deterioration.
Soil, method of cultivation, and kind of crops, all regulate the net return one gets from a ton of barnyard manure. The manure, eight tons to the acre, on a rotation of corn, oats, wheat, clover and eturn to the value of $\$ 4.69$ per ton. average for the whole time in the tests
where rotation was practiced was $\$ 2.97$ per ton of manure.
The most valuable manure, the ma nure that contains the most nitrogen and potash, is the hardest kind to save. It good many stockmen now who have cisof saving manure where correctly done but in applying the liquid, there is the as with commercial fertilizers. This is not the fault of the manure, or the ferbeen plowed under.
Despite warnings from our colleges and ur experiment stations, the money we ure is throw away in the form of mafact still more distressing is that it is preventable. Compared to European meth ods of manure conservation, it seems that are still in the infant class.
In this country there are approximately $19,500,000$ horses and mules, $51,600,000$ sheep, $47,000,000$ hogs, and $61,000,000$ cattle. Figuring usual values on nitrogen, mals produce in one year, $\$ 2,225,700,000$ worth of fertilizer
And we are told that one-third of this lost by careless handling. That is
bout $\$ 750,000,000$. bout $\$ 750,000,000$.
The first law of economy is to stop erican farmer should do, it seems, is to valuable fertilizing element. California. $\qquad$ L. DeBra

LIGHT SEEDING AND ITS RESULTS Thought perhaps some of our farm Farmer readers.
son from the east is our light seeding all grain. All crops stool here much mor have the east, and since farming her light seeding would not be better for the Michigan it was not at all uncommon to hear the expression, "that piece of ground
is rich, it will stand more seed." Now the very reverse is true here, the better conaition the soil, and the more plant food it icher soll will force we sow, for this one grain.
Thirty pounds of wheat per acre and one bushel of oats is the extreme maxisoil good are sowing less than this one year ago our wheat made some over 32 bushels per acre from a seeding of $191 / 2$ pounds. This year we threshed 20 bushels ipitation from $141 / 2$ pounds and our precipitation from sowing to harvest was down on inches. One 14 -acre field sloped stooled so much that there was not mois-
ture to mature it and only yielded oneWe think that, could we have sown eight We think that, could we have sown eight
or 10 pounds on the low ground or 10 pounds on the low ground our yield
would have been 28 or 30 bushels per acre n the whole field. We sowed 15 per acr of oats per acre this year and but for the extremely dry summer we would have had extremely dry summer we would have had bushels per acre.
One grain of corn will often make two o four stalks, this depending some on the season and cultivation
1 know these light seedings will seem
incredible to a person who has not stud ied our western conditions.

SOIL AND FERTILIZER QUESTIONS.

## Composted vs. Fresh Stable Manure.

What is the difference between fresh
barn manure or well rotted manure, and which will produce the most weeds whe Shiawassee Co.
If you take an even quantity of fresh stable manure and pile it in a yard and ing therk it over two or three times durted, you will have â much smaller quantity, so far as bulk is concerned, than ne pile of fresh stable manure was origi post heap much of the volume is com The coarse used for bedding and that sort straw rots and decays and its volume is thing, erceptibly lessened. Many of the weed been destroyed by the fermentation of the manure so that you will have manure omposted. decomposition of this manure fermenta tion has driven off or allowed to pass way some of the ammonia or nitrogen Again, if the pile has been allowed to each, if it is an excessive rainy season some of the soluble plant food in the process of composting, which you would not lose if you had applied the manure a larger per cent of available plant food. If you want to raise market garden crops, if you want to get immediate effects you can get better results with comfresh manure contains other hand, the fresh manure contains more bulk and consequently more organic matter, most
of our soil needs organic matter as much as it does plant food, and conzequently it would be more profitable to apply the manure fresh on most lands, and certainy for ordinary crops. In applying the manure fresh you save every bit of the plant food, you save all of the organic matter and you save the labor and ex pense of composting it. If the manure is he summer time so that it will during costs considerable so that it will rot, it labor and you have lost all this, the handling of the manure, and besides you have lost some organic matter, and you have lost some available plant food.
It used to be quite popular to It used to be quite popular to compost manure before it was used, but farmers good results with a given amount of manure after it has been composted as the do if they applied it fresh, taking everynure, containing more or less bedding in just what is wanted in the soil to in humus or vegetable matter in the soil. Then, nowdays we don't want We can't afford to let this manure fer-
ment in the pile and have the ammonia go off voltatilized into the air. Again, we can't afford to run the risk of an exces-
sive rainy season and have this pile of manure leach and take some of the soluble phosphoric acid and potash down into
the soil underneath. Again, we can't affcrd the labor. Labor now is a very important consideration in the business of
farming, and we can't afford the labor necessary to handle this manure three o four times. The very best way to dispose of stable manure is to haul it, if possible, the ground. Then there is no loss eit on
ther the ground. Then there is no loss either in plant food or labor. It is done at a times it is impossible to do this, sometimes it is impossible to do this, in other time we haven't any place to summer stable manure. The land is to put the If you put it on the pastures early in the season you destroy some of the pasture or that season.
The cows and sheep won't feed where this fresh manure is spread, and we gen erally need all the pasture grass that we can get at that time of the year. The
other fields, of course, are covered with growing crops and you can't spread the manure, so the only way for us to do is
to pile it up in a big pile and then haul to pile it up in a big pile and then haul
it out later on when some of the crops have been removed, but we don't crops over, we don't go to this expense. Just as soon as we can get the fields clean of crops and get the time we haul it out and from that time on until the next summer we calculate to draw it directly to the fields and spread it. Again, sometimes it happens that we can't do this if the snow is very deep or if the fields are very soft. Then we have to put it in a pile again in some convenient place, preferably out upon the field where the manure is going to be spread later on, pile it up in a big pile and leave it until the can go on with a manure spreader and spread the stable manure. This, of course, necessitates handling the manure over once more, which is expensive, but which cannot be avoided. Colon C. Lillie.

## WHY BOYS LEAVE THE FARM.

Boys who are playmates will reveal to each other their plans for the future withfatmer, another a mechanic, another a doctor, and so on. These plans are liable to be changed often before they fet real work for themselves. Boys readily learn that they will soon be men, and this knowledge sometimes causes them to make their parents much trouble. It gives them an independent feeling. If home conditions are not agreeable they look hang to the time when they can I saw them or get away from them. I saw this independent feeling illustratnot long ago in a manner that pleased chine, and a little beside a threshing marevealing to me his plans for the future n a confidential that in so many years (he had the years counted up) he would be thirteen years old, then he was going with a threshing "Well," said I, "by that time you will be just about large enough to carry water or the boys to drink."
"Huh," said he, with a contemptuous expression on his face, "I'll never carry water for them fellows."
This independent spirit frequently gets hold of a boy when he is quite young and gets hold of him in a way that is hard for his parents to control. Study them. It is not undigrified for a father to knuckle own to a son when he thinks he has been ikely to or too exacting. Such action is you mean to be fair with him, and when he gets that impression you have a stron hold on him. The time is soon coming when you cannot force obedience, and you may as well get ready for that time.
nder a circumstance which came One of observation when I was a boy. horse im. He wis father was looking at mounting and the father finally trouble in d that the boy father inally remark Iways would was always behind and emark was very ungenerous $a$ that the was short and the horse was the boy remark was made before the boys, remark was made before the boys' play
mates. The boy lived to show the worl that he bither tow nor dull worl withstanding his father's judgment not he contrary. It is needless judgment to that boy stayed on his father's farm no nger than he was compelled to.
Boys like to be known by their neighbors as good boys. An acquaintance stattences that ever fell the sweetest senfrom the lips of a neighbor woman on his return to his native place, after having battled with the world for a quarter of a century. She greeted him with, "God bless ye-ye were a gude boy." This un-
studied expression coming from this unlettered Scotchwoman made a lasting im pression upon him. When old age is bear ing down upon us, and time has left its mark on every feature,
Branch Co.

## . Vanderbilt.

It is scarcely necessary to refer to the mportance of quality in addressing the Farmer has always been a farm paper of quality.
Still, it is well to remember in buying merchandise for the home or farm price is not the only thing to be considered Almost invariably the cheapest article is the most expensive, because of its short life or because it so often proves unsatisfactory.
have stated before, a ten-acre field o
lima beans made a tremendous growth o
vines but did not fill well, neither did they pod very well, and even where they did they did not fill, and there was not enough beans in them to pay for hauling them to the canning factory and getting them threshed, consequently I put them all into the silo. I had two teams all the time and three teams a portion of the time hauling beans, and four or five load of beans up next to the ensilage ter and fork them in on top of the corn so it could take a good stream of corn, one bundle right after another without cutting the bands and also a good layer we got a splendid mixture. The beans were distributed evenly through the corn.
And with this ten acres, of lima beans and about four acres of soy beans, I had a sufficient quantity of beans to mix in with the silage in all three silos. I am of the
opinion that I have got a splendid lot of opinion that I have got a splendid lot of silage this year. The corn wasn't as
heavy as it ought to have been; it was heavy as it ought to have been; it was
thick enough but it didn't grow tall enough, owing to the drought. If I hadn't had the beans this year to mix in with
the corn I wouldn't have had anywhere near enough to fill the silos. As it is', we only lacked a little in one of the silos of getting all three of them full. A new idea for the final covering of the silo has just made its appearance in the agricultural press, and that is to cove led down, with about a half an inch of common salt. As soon as I saw this I spoiled. It appealed that we have covered our two silos, which we are laying by, with salt. It took about barrel and a half to cover the two silos way, and when you are cows salt any silos you need not feed them any extra can be laid back a little bit and fed lat Fall Plowing.
Today, October 13, we hav
will will get growth enough so that to have a severe winter. It is not as large as I would like to see it, but it is not dead, and there is hope left yet that
we will not lose our seeding. On the wheat stubble we mixed a considerable quantity of alfalfa seed with the red clo-
ver seed. There seems to be almost as much alfalfa as there is red clover. It ever before, although I have been mixing the alfalfa seed with the red clover, and I am of the opinion that this comes from
the fact that the clover made a poor start. Always before the clover came up readily in the spring and made a growth
which seemed to crowd out the alfalfa which seemed to crowd out the alfalfa clover did not make this growth and the alfalfa had a good fair chance. It is a
little slower to start than red clover and consequently red clover gets the advantage of it. However, I did mix in more alfalfa seed this spring than ever before.
Filling silos. One of the annual big jobs on Lillie
Farmstead is completed, and that is filling the three silos. Two of these silos will hold, when full, 200 tons each and the smaller one for summer feeding will neighborhood of 500 tons of silage and it is quite a job to fill them all. It costs a

## purchased a new ensilage eutter of

 own, having power to run it, so that the less this year than formerly, because I ter and power. We had splendid weather for this work, and are very thankful for hot and it made the men sweat and the horses, too, especially those that were was in fine condition, quite a contrast to were in the mud, and the latter portion or the corn had to be cut by hand as we couldn't get the corn binder to work. This binders worked perfectly and the ground was in splendid condition. We had a had the corn all cut and finisht but we urday noon. The ground was a little wet were so ny Saturday to finish but we were so near through that we did not no-tice the little mud.

I have a fine illustration this year of succotash ensilage, that is, a leguminous crop mixed with the corn crop. As

## We finished sowing the wheat, 75 acres,

 on the very last day of September. We fact that the traction engine broke down and we had to give the last hris is a few days later than I like to sow wheat yet I have had good wheat that was no upon the season. The warm weather and ing the wheat on since sowing is bring fire. In some of the fields that wer sown before any rain came, that is, came on nicely after the rain and now presents a magnificent growth. Yith a growth as large as these fields have at this time of the year, would be afraid that it would get two large a growth, but I am of the opinion growth that is already made, and I wish my wheat was as far advanced as that get a good growth. We have had no frosts as yet. Tomato vines haven't beetouched with the frost and it doesn't seem possible that we can have such a stop the growth of wheat immediately, The prospect for a good growth of wheat is more encouraging than it has been for
the last two years. Both last fall and the previous fall wheat did not do well. are more normal. The This year thin yet. Seemingly we have had splendid of September, yet the ground is not soak ed at all, just in nice condition to work September have started the new seeding which lay dormant all summer. This ap
plies both to the red clover seeding in the wheat last spring and also to the alfalfa which was sown alone and with looks nicely. The only question is wheth er it will get growth enough so tha engine to do some fall started the weather permitting, I propose to plow a good portion of the land which we
late to put into crops next spring.

SOME DISADVANTAGES OF FALL PLOWIN

The time for fall plowing is at hand haste to plow up his fields. Often great more harm is done by fall plowing than aerating the soil and in the killing off many of the injurious insect pests, but in washing of the plowed lands and the are much greater than are the good Hillsides where the soil is light or washy should never be fall plowed, no

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to leach. On the flat lands where the
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where there is no danger of washing, fal
lowing will make the ground much light
when the "rush" season of getting in the
On slopes and hillsides
Soil may wash and much of the plant
only this, but if the soil is be lost. Not
nature the effect will be just the reverse
poorer physical condition than if it much
On lands of the lighter or washy types
the soil in place and to retain the hold
Indiana.
$\qquad$ R. Cavanagh

## WANTED.

or soliciting. No experio are hustlers, The work is dignified, healthful and instructive. In writing give references and also state whether you have a horse
and buggy of your own. Address Box F., care Michigan Farmer, Detroit, Mich. The ranges are not carrying many wethers or yearlings, and many es proach of the of 1913. Farmend of the shipping the apfeeding yearlings, but the offerings small in numbers to gove been


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 Watch That'll Be Your Partner for Life"

Go See It At Any First-Class Jeweler's. Have Him Tell You About the Famous South Bend Ice-Test!

O
NLY a quality watch can stand the drastic test that every South Bend Watch passes through-that of being frozen in solid ice for twenty-four hours. Think of owning a watch built of such superlative materials, of such remarkable workmanship that neither boiling temperature nor below freezing can affect

## "South Bend"

Surely this is the kind of watch personality. That is one reason you want-a watch that you can trust through your lifetime, and one you can hand down to your
chitdren as a treasured heirloom when you are gone.
When you are in town ask the new South Bend "double-roller" movement. No watch made surpasses it. The South Bend Watch secure it only through the retail jeweler, who adjusts it and reguTHE SOUTH BEND WATCH CO. 10 Market St., St., SOUTH BEND, IND.



## - 歯-. $22^{\text {RIFLES }}$

The Little Rifles-Big in Quality OU are going to buy a 22 calibre rifle single shot shots started with a Remington-UMC .22. Their advice now would be "By all means, get a Remington-UMC" because they know that there is a tendency in some quarters to look upon these models as only "a small boy's rifle" and to cheapen them so that they can be sold at a price.
your. 22 calibre arm as in in your $\$ 75$ big to game filfe. You want the Remington-UMC single shot at from $\$ 3$ to $\$ 6.22$,
$25-10$ or 32 calibre, made by the same people who make the famus. $.25-10$ or 32 calibre, made by the same people who make the famous
Remington-UMC Autoloading Rifles. Oratif sou prefer the repeating rife, hiop Remington.UMC slide action 22.
 Reminton Arms-Union Metallic Cartridge Co.
U. S. GOVERNMENT SHIPS ALL



## Fairy Magic-Telephone Reality

A tent large enough to shelter his vast army, yet so small that he could fold it in his hand, was the gift demanded by a certain sultan of India of his son, the prince who married the fairy PariBanou.

It was not difficult for the fairy to produce the tent. When it was stretched out, the sultan's army conveniently encamped under it and, as the army grew, the tent extended of its own accord.

A reality more wonderful than Prince Ahmed's magic tent is the Bell Telephone. It occupies but a few square inches of space on your desk
or table, and yet extends over the entire country.

When you grasp it in your hand, it is as easily possible to talk a hundred or a thousand miles away as to the nearest town or city.

In the Bell System, 7,500,000 telephones are connected and work together to take care of the telephone needs of the people of this country.

As these needs grow, and as the number of telephone users increases, the system must inevitably expand. For the Bell System must always provide a service adequate to the demands of the people.

American Telephone and Telegraph Company AND ASSOCIATED COMPANIES

## One Policy

One System
Universal Service

## Buy the CADYFARM SHOE Right Now



## Practical Science.

THE CONSERVATION OF PHOSPHOR IC ACID AND POTASH.

The by floyd w. robison. tains about two-thirds of the animals congen in the food consumed. As a nitroof fact, in the mature animal neither gaining nor losing weight the nitrogen found in the urine is an exact or almost
exact, complement of the nitrogen conexact, complement of the nitrogen con-
sumed in the feed. The one-third nitrosumed in the feed. The one-third nitro-
gen not found in the liquid excrement gen not found in the liquid excrement
may be recovered from the solid excrement and consists largely of the undigest ment and consists largely of the undigestproducts which are the results of the digestion in the body of the food consumed.
Phosphoric Acid and Nitrogen Exist Together in Plants.
Most of the phosphorus which is found in foodstuffs exists in a more or less essentially vital portions of the feedessentally vital portions of the feed-
stuffs is characterized by its phosphorus content. The cellular structure consists in an essential quantity of phosphorus and while the protein or albumin is dis-
tinguished or characterized by the nitr gen which it contains, the nucleo-p $=0-$
teids, or the proteids intimately associateids, or the proteids intimately associa-
ted with the life reproduction, contain a an essential constituent phosphorus as well. In food products, therefore, nitro-
gen, phosphorus and sometimes sulphur are very closely related in the same com-
pound. We might therefore expect that the liquid excrement of animals, which
contains the highest content of nit:ogen, would also contain the largest content of phosphorus. This, however, is not so
For we find the sol:d exerement of animals containing larger percentages o phosphorus. Hence it must readily be
seen that to carefully conserve the ingested nitrogen and phosphorus, it is esential that both the liquid exc:ement and ed. Again, during growth of a crop which are most available, are taken up by that crop, consequently an analysis o
the crop at maturity of the plant woul represent those soil constituents which were most available in that soil. Conse-
quently, we see that each erop from the soil not only so much nitrogen phosphoric acid and potash, but the most available and expensive plant food con-
stituents in that soil because they are so readily available.
The Effect of Passing Through the When the food is consumed by the animal, it passes through a certain set of
changes which in part restore it to nearly its original condit:on of availability. That portion of the food which is digested is returned to the soil in almost as satismoved from the soil by the plant, but the undigested portions, however, are not
nearly so available as they were at the nearly so avallable as they were at the
time they were extracted from the so:1
by the plant. The modifications which they have undergone in passing through the alimentary canal of the animal have a considerable effect in promoting the
decomposition which they must undergo before they can again be taken up by
the plants. If to this valuable treatment within the animal system is appended the right kind of subsequent treatment in the manure pile, then the most is made of
this undigested portion without waste. Phosphoric Acid. Removed by Crops. ies the verio some of our best authorithe soil on the average something like
the following amount of phosphoric acid


\section*{| Oats |
| :---: |
| Barles |
| Bat |}

Wheat bran
Cottonseed me
Corn stover
Corn stover
Iimothy hay
lover
lovalfa
Alfalf
Oat straw
Corn sila

| Corn silage |
| :--- |
| Mangels. |

of the farm the farmer must remember that for every 1.000 pounds of corn which he disposes of he is selling 7.1 pounds of
phosphoric acid and phosphoric acid at the same time which, as we have stated
before, was in a very readily available
form. Therefore, to keep his soil up to its optimum efficiency-he should restore to that soil at least 7.1 pounds of phosphoric acid for every 1,000 pounds of corn removed. Now there are various ways the farmer about and buy wheat bran. In so doing, for every 1,000 pounds of wheat bran that he buys he is purchasing, as we see from the table given above, 26.9 pounds of phosphoric acid. In order therefore, to supply the amount of phosphoric acid removed in the 1,000 poundst of corn it would be necessary to feed upon the fran something like 200 pounds of wheat bran. And similarly in the case of cot conseed meal which likewise is high in its not practiced then the only feeding is not practiced then the only other alter chase natural manure which is rarely possible or else to secure commercial fertilizers containing at least as much phos phoric acid as he has removed from his soil by the cropsi sold.

Potash Removed by crops,
In a similar way regarding potash. nitrogen and the feces, or solid of the ment, most of the phosphoric acid, we find again that the liquid excrement contains the greatest quantity of potash This, of course, is because of the exceedingly ready solubility of the potash salts. Growing crops remove potash in approximately the following amounts per

## 1,000 pounds: Wheat Oats <br> Wheat br Linseed meal Corn stover Timothy hay Alfalfa stra Co:n silage

To Build up the Soil
Now a return to the fiela manure of the equival moved adds nothing essentially to the soil but does encourage the production food material. If more available plan productive power it can is deficient in by the use of either commercial fertilizers in additon to natural manures or by the purchase of barnyard manure, or by as is done on many farms, a great deal of feed is brought onto the farm and fed to stock upon the farm, thereby of course actually increasing the nutrients returned to the field.

## LABORATORY REPORT.

## Feed Definitions

## The Association of Feed Control offi

cials of the United States have formu lated definitions for some of the more
common feed stuffs that products in the manufacture of other articles. Some of these are: manufacture of starch a product in the er corn products and is the germ layer from which a part of the corn oil has been extracted. Linseed meal is the ground residue after extraction of part of Meat scrap ground flaxseed.
Meat scrap and meat meal are the ground residue from animal tissue exclusive of hoof and bone. If they contain any considerable amount of bone they
must be designated meat and bone scrap, or bone meal. If they bear a name descriptive of their kind, composition or origin, they must correspond thereto. origin, they must correspond thereto.
Oat groats are the kernels of the oat berry with the hulls removed. Oat hulls are the outer shaffy cover-
ings of the oat grain. Red dog is Red dog is a low grade of wheat flour Oat shorts are the covering of the grain lying immediately inside the hull, being a fuzzy material carrying with it cansiderable portion of the fine floury part of the groat obtained in the milling of rolled oats.
Prime cottonseed meal must be finely ground, not necessarily bolted, of sweet not brown or reddish, free from excess or lime, and must contain at least 38.6 per cent protein.



YOUR MONEY WIII $5 \%$


MIEN OF IDEAS And Anventive abitity otould


\section*{FENCE POSTS} | DE LAVAL |
| :---: |
| sefarators |



 WANTED



## Good Prices Received by Breeders.



Consigned by H. W. W. Norton \& Son,
Females-Becky
 mos. to J. R. Hicks, St. Johns, Mrich.
To
235; heifer, 1 yr., to Floyd Jones. Oak






Couzens, $\$ 300$; Kate Korndyke Ha to Jas.
(197517) 1 yr. 5 mos., to Jas. Couzens, .
consigned by Reed and F. P. Knowles,
Females-Bell Wayne Canary (99980)

ess Lillest (166093) 1 yr. 9 mos., to W. I.
Osborne. $\$ 325$ C Colantha Countess Viola (166094) 2 yrs. 1 mo., to Albert $L$. Smith,
Chilson, Mich., $\$ 345$; Countess Trildiamond (14568) 3 yrs. 6 mos., to Beach \& Wirt,
$\$ 245 ;$ Hangerveld Johanna Perfection (175571) 1 yr. 8 mos., to Lloyd Lake,
North $\begin{aligned} & \text { Branch, } \\ & \text { Pich., }\end{aligned} 155$.
 tiac Boon, 2 mos., to Jones \& Lutz, $\$ 140$. Consigned by J. E. Burroughs, Flint,

Females-Atlas Bessie Pauline (194721) Pauline De Kol (61332) 12 , yrs., to W. K. $(184063) 1$ yr. 6 mos, to Jas. Couzens,
$\$ 200$; Flint Atlas Nudine (186347) 1 yr, 4 mos., to Michigan Reformatory, Ionia Mich., \$170; Flint De Kol Atlas Tula (157Vest Unity, Ohio, $\$ 250$; Hengerveld Pau Wine De Kol. (192304) 1 Mr. 10 mos., to
John A Rinke. Warren, Mich., $\$ 330$; Johan Cynthia De Kol (177633) 1 yr. 7 mos., to
Couzens, $\$ 350$ Johan Hangerveld Jas. Couzens, $\$ 350$; Johan Hangerveluzens, $\$ 320$; Johanna Hopes Zubrod (167 ohan Jewel De Kol (117632) 1 yr. 7 mos. 3385; Johan Kuperna De Kol (197295) mos, to Jas, Couzens, $\$ 230$; Johan May
Durke 2d. (192813) 10 mos. to J. Fred Smith, $\$ 150$; Johan Nellie Wayne (i67825)
1 yr. 10 mos., to Jas. Couzens, $\$ 365$; Jo han Netherland Belle (168320) 1 yr. 11
mos ., to Jas. Couzens, $\$ 325$; Johan Oosterbaan De Kol (167290) 11 yr. 11 mos. to
Jas. Couzens, $\$ 340$; Johan Pietertje Johan Vale Elzevere (204573) 9 mos. to Jas. Couzens, 8190 ; Johan Yetive Dee Kol
$(167921) 1$ yrs. 1 mo., to J. L. Wilson. $\$ 305$; Salina Brightest De Kol (73494) 11 Males-Johan Judge Hengerveld (104 676) 1 yr. ${ }^{7}$ mos., to M. W. Willard, Gd.
Rapids, Mich., $\$ 500$; Segis Beets Inka De
Kol (116128) 2 mos, to Dewey C. Pierson, Hadley, Mich., \$115. Females-Athenia Snow De Kol (116339)
yrs. 9 mos., to W . H. Parshall, Howell Mich., $\$ 330$; Dutchess Mercedes De Koi
(141262) 4 yrs., to Wm. B. Hatch, Ypsi-
lanti. Mich., $\$ 250$; Renno Pauline Burke lay City, Mich., \$145; Shadyside Canary Consigned by J. H. Johnson, Farmington,
 Mayes, Gains, Mich., $\$ 115 ;$ Beauty Pie-
tertje Pontiac Korndyke
$(170810)$
2
 $\$ 210 ;$ Fdgeriver Lizzie (172880) 2 Mrs. 6
mos., to Fred M. Warner, Farmington, lich., $\$ 155$; Nellie Kalf. 5 mos., to J. E. Mitchie Kaastra Pontiac (179487) 2 yrs. 4 mos. Thurber Correll, Howell, Mich., $\$ 95$; Pau-
Tine Orine ( 68696 ) 10 yrs, 7 mos $188274)^{2} 2$ yrs., to Albert L. Smith $\$ 275$. mos., to Albert L. Smith, $\$ 265$. Females-Clothilde Sarcastic (78101) 8










 Jas. Couzens, $\$ 300$; Bessie De Kol Clotho
2d., ${ }^{2}$ Yrs. 5 mos., to Dudley E. Waters,
$\$ 300$; Blanche Ykema De Kol (212154) 2
 264) 3 yrs. 7 mos. to J. R. Hicks. $\$ 240$;
Daisy Anza Tirania Posch De Koi (212-
265 ) 1 yr. 10 mos., to W. C. Herman \& Pontiac Maid (212155) ${ }^{\$ 280 ; \text { yrs, } 9 \text { mopendence }} \begin{aligned} & \text { mos., to }\end{aligned}$
Chas. I. Caulkins, $\$ 265 ;$ Johanna Calam ity Colantha De Kol (1926£9) 1 yr. 9 mos.,
to W. K. Gore, $\$ 160$; Lydia Korndyke De Kol 4 rd. ( 212131381 1 yr. 7 mos., to H. F.
Auten, $\$ 230 ;$ Lady Jane Poseb, 2 yrs. 4 mos., to Albert E. Jenkins, Mason, Mrich., 152) 1 yr. 6 mos., to Nelson Buzzard, Fen-Males-Beauty Pietertje De Kol Pon-
tiac (116378) tiac (116378) ${ }^{2}$ mos., to Walker Sons, tiac Hengerveld. 2 d .2 mos., to Kalamazoo
State Hospital, $\$ 55.2$


BEST GRAIN TO FEED WITH SIL
SOME HAY, CORN STOVER
AND STRAW.
What is the most economical grain to
buy for milch cows this year, to feed in buy for milch cows this year, to feed in
connection with silage, hay and cornstalks? We will probably feed them the
hay and stalks on alternate days, one hay and stalks on alternate days, one
feed a day. The hay is mostly clover and alfalia.
With plenty of alfalfa hay H. J. L. corn silage made from the whole corn, so tar as food nutrients are concerned, one can compound practically a balanced ration, but while the food nutrients are practically balanced it is not a desirable ration in another way. It contains too much bulk for the concentrates. A ra-
tion ought to be balanced in two ways, first as to the food nutrients, that is, the arbohydrates and protein, and second, concentrates. A cow won't do her best on an entirely bulky ration, neither will she do her best on an entirely concengood rule is that two-thirds of the food nutrients should be found in the rougnin the concentrates. Now as H. . L. has all of it is alfalfa, his ration would not
only be too bulky but it would not balance so far as the food nutrients are ficient in protein, and this must guide erly balance this ration. What he wants is a concentrate that is richer in protein han silage. You can't balance this ration with corn meal or ground oats or ground barley because they are not rich enough
in protein, but you can balance it with cottonseed meal, gluten feed, dried brewers' grains, etc. Now these are the kind they are rich $n$ protein, the very element your ration is deficient in. Of the three kinds of feeding stuffs named, cottonseed meal, gluten feed, and brewers' grains,
I would simply take the analysis of these three different kinds of feeding stuffs, get the price that I would have to pay cost of a pound of digestible protein, and I would purchase that feeding stuff which would give me a pound of digestible protein for the least money. There is anprominence in feeding dairy cows, and that is cull beans. You can probably beans, which you can grain ration cull price. They can be bought at the present time for $\$ 14$ or $\$ 15$ per ton and they contain over 20 per cent of digestible proand mix 100 lbs . of these with 200 lbs . of cottonseed meal, or 200 lbs . of gluten feed, or 200 lbs of aried brewers grains, probably wouldn't eat it well at first but perhaps you may succeed in getting them to eat the bean meal so that you could mix it half-and-half which would chcapen will pay to do it because half of the grain ration being cull beans will work no detriment to the cows Some people ing them and then feeding them after they are boiled. In this way the cows soon learn

TEACHING THE HEIFER.
Some people have a serious time in breaking a heifer to milk for the first
time, and yet every practical dairyman time, and yet every practical dairyman knows that if the heifers have been
handled as they ought to be, they are eally broken before the freshen. A heifer that is kept in the stall that is to
be her home after she freshens, for at least two months beforehand, gets used
to all of her surroundings, is made a little, of by the stable man every time she is put in, and has her udder manipulated just a little every day, a little at first,
and then more and more, when this heifer freshens she is practically broken to be milked. On the other hand, if she is and barn until she freshens and then put into the barn, she is naturally difficult to break. She resents being milked because she is not used to being handled and is afraid of the man. In this way kickers are developed. By educating the heifer before she freshens it is rare that she will result the manipulation of her udder picker.


Physicilans say that a man would live to be a hundred years old, if he knew he would mever be in want. It is worm ry about the future that hastens old age and shortens Mife.
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| :--- | DETROIT, OCT 25, 1913.

## CURRENT COMMENT

Just the other The Farm Water Supply day a man who
is in the business of putting down deep wells was
heard to remark that unless there is an heard to remark that unless there is an
abundance of rain before the ground freezes up, there would be a demand for
his services all through the winter. Put into other words, his remark would mean that a great many farmers are depending
on shallow or surface wells from which an adequate supply
on a liberal rainfall.

## From the standpoint of health, if not

 for these prospective employers of the well man if we had a dry autumn. Investiga-tions made in many places show that shallow wells are an unsafe source of
farm water supply. Investigations made by the Bureau of Plant Industry in co-
operation with the Minnesota Board of Health showed that of 79 typieal farm,
wells in Minnesota, only 20 were good, while 59 were more or less polluted. In a similar examination in Indiana, the
water from only 159 of 411 shallow wells was good, while that from 209 was bad
and from 43 of doubtful quality. In 116
out of 177 deep wells examined the water was of excellent quality.
These comparisons speak These comparisons speak for themselves and are the best kind of an argument for
the giving of greater care and attention

Our Beef Industry. A question now holdMichigan and throughout the country is beef upon the free list will have the effect cattle in this country. This, of course, is the answer, but the present trend of the
cattle market is an excellent indication of what the cattle feeders of the country
think about it. It will also be noted that whenever and wherever an opinion is expressed by anyone who is in the cattle
trade, a prediction of higher rather than is expressed. This, too, is contrary to the usual attitude of the dealer in any com
modity in whom natural caution is gen erally reflected by the expression of "bear-

## In the last analysis the future trend o

 prices must depend upon the old law ofsupply and demand. In this connection some recen pepartment of Commerce re lating to exports and imports of beef catthe are of interest. These figures show August, 1913, the exports of beef cattle from this country aggregated only about
$\$ 1,000,000$ as compared with $\$ 44,000,000$ for the same months in 1904. On the other hand, imports of cattle increased from 9,357 in the eight months ending with August, 1904, to 340,105 in the same period of 1913, and their aggregate value
from s181,145 during the eight months giv. en for 1904 to $\$ 5,031,842$ for the same period ik 1913 In addition to this increase
been a marked increase in the imports of
beef, which for the full fiscal year of 1904 aggregated but $\$ 14,922$ as compared with the value of imports of beef aggregating 1913, and the single month of August, 1913 of $\$ 303,934$.
of course, the imports may be expected to increase greatly with the removal of that prices will not fall below the world priee level. Thus the whole question re-
solves itself into the simple proposition as to whether there is a world surplus of
beef cattle or not. It is apparently the judgment of those who should be best informed on this point that, there is not, and while it is likely that the removal of
the tariff on cattle and beef may check a further advance in the price of the domestic product, it seems unikely that tle feeding industry of the United States At least it is the consensus of opinion of
those who have most carefuly studied the situation, that feeding cattle of the right kind, even at the present high price of
feeders, will afford a safe and profitable market to Michigan and American farm ers for their home-grown feeds.
The Extent of Rural Reference has been Indebtedness. comment to an in by the Department of Agriculture in the autumn of 1912, relative to rural credit conditions in the United States. In an
article published in the Bulletin of Social and Economic Intelligence, published by the International Institute of Agriculture, further deductions were made from the
statistics gathered in this investigation, showing that the total indebtedness car-
ried by the farmers of the United States is no the farmers of the United States
is not less than $85,000,000.000$ of this is not less than $\$ 5,000,000,000$. of this mortgages, 14 per cent in chattel mort gages, 7.8 per cent in loans on cotton as
collateral, and the remaining percenta collatera, and the remaining percentage
$\qquad$ respondents furnishing the data from which these figures were compiled were
of the opinion that 77 per cent of farm wners and 46 per cent of farm tenants an endorsed note for loans. It was the opinion of the correspondents who re-
ported on this condition, however, that 36 per cent of owners and 37 per cent of
tenants were in a position to offer security but were unable to obtain loans for
short periods, while 40 per cent of owners and 44 per cent of tenants were unable to obtain long term credit on what the With regard to interest rates, there was a great variation in different sections of
the country. From Wisconsin there were eports that farmers were able to borrow money at four to five per cent, and it was
found that the savings banks in Massa found that the savings banks in Massa-
chusetts loaned money to farmers at from five to six per cent. In the mountain hve to six per cent. In the mountain
states interest rates were much higher, running about 9.9 per cent, while in some common rate, and in some localities as much as one per cent per month was paid These figures are given to illustrate the point that co-operative credit is needed
badly by a very considerable percentage badly by a very considerable percentage
of the farmers of the United States. Had this investigation been conducted
during the stringency of 1907, for which is generally conceded there was no bus-

## iness cause, or even during the past few

 by banks, enabling private capitalists to advance the interest rates in many localmore apparent. The, great obstacle, however, to the establishing of rural creditorganizations in the United States, is the organizations in the United States, is the
fact that such a large percentage of our farmers are forehanded and either do not need toct of their business or have such excellent credit that they are able to present conditions. These men would very generally lack the inclination to join a credit society in which they would be other members who did not enjoy such excellent personal creait.
There is, however, undoubtedly room for such credit organizations in every state and practically every county in the United States, and there is no doubt that by this means the comparatively large percentage of farmers who are able to
give good security, as shown by the figures quoted above, yet who are unable to get adequate accommodations at present,
perience proves that by this means they are able to get better terms or chaper interest rates in the making of loans, those who do not at present so badly need their aid would be attracted to and become affiliated with these organizations.
At the present time a committee of the American commission to investigate agricultural credit in Eusope is formulating its report unon its findings, which report will undoubtedy be made to Congress af-
ter it convenes in regular session this winter. There win yet remain much to ling legislation, but also in the promotion of public sentiment before this undoubt edly desirable movement can become well established in this country. This time estabished in this country. This time
would, however, be materially hastened if the farmers' organizations of this and other states, such as the Grange and tion of rural credit in their monthly meet ings, particularly with a view of arrivin at some conclusion with regard to the needs of their own membership along this line. To be a maximum success a pian cer the establishment of better rura conditions of a majority of the needs who will be benefited thereby, and an early dis cussion of the problem throughout the country would aid in the crystalization of sentiment to an extent which would be a valuable guide to Congress and the patrithe citizens who devote their energy to

## The Chamber

## $\begin{array}{ll}\text { N. S. of. } \mathrm{C} \text {. Approves } & \text { Commerce of } \\ \text { Currency Bill. } & \text { United States }\end{array}$

 America, met inDetroit last week, This organization in
ludes over 300 Chambers of Commerce cludes over 300 Chambers of Commerce Trade Organizations throughout the Unied States. For the second time since th
tion by Congress, this organization at the recent meeting took official action with the sentiment of the constituent bodies having a membership in this organization might be secured, this question was subvote a few weeks ago. This vote was can assed at the recent Detroit meeting showing the result to be 303 for the pend ing currency bill and 17 against it. tain recommends were submitted to zations, several of which were endorsed as follows:
ral reserve of the increase of the fed wo additional members to members, the the original seven members, subject to the approval of the president, the compensahon of the governor and vice

## 2. The creation of the federal reserve

serve banks, the president and vice-pres on and to council to reside in Washingeserve board but without vote; their sal aries to be fixed and paid by the banks. "3. That in the creation of the new hing to be made with the present central eserve cities (three in number), the num ral reserve. boards as in their judgment onditions warrant.
oncerning note issues
ederal reserve notes to $\$ 500,000,000$ issue of

## "(b) Tha

"(b) That interest on federal reserve "(c) eliminated.
"(c) That it be made unlawful for any but its own, the notes issued being given

## identifying number.

not be obligations of the government but nould be guaranteed by the United States and that they shall be redeemable by fedury of the United States.

That federal reserve banks mutu
aly guarantee the federal reserve note
by providing that said notes shall become a first and permanent lien upon the com bined assets of federal reserve banks. the Owen-Glass bill be requirements of duced for both in reserve cities.
Several of the constituent bodies failed to vote on the propositions submitted on sufficiently familiar with the proposition warrant the expression of an opinion
The majorities for the different proposi may be taked were, however, large and
usine and varied class of the country's As noted in a previous comment on this subject, many of the recommendations of this organization previously made have been incorporated in the bill, and without doubt the interest taken in the proposithion and the support given to the bill by this body will prove a powerful influence ward its enactment into law

A LITTLE PAINT IS A GOOD INVEST

Here and there in the country one sees farms where all the buildings are kept freshly painted. What a difference it the farm looks. These are the place strangers stop to look at, and many times $\$ 20$ worth of paint adds $\$ 500$ to the value

## the farm.

In the united states there are thousands of paint manufacturers, and yet folks. These are the known to farm of their paint, who know they make a good paint and who want the people, ev erywhere, to know about it.
Mou will find thigan Farmer.

## HAPPENINGS OF THE WEEK.

## National.

In moving a trainload of troops from fatal accident occurred at Buckatonna
trestle 60 miles north of trestle 60 miles north of Mobile. The
train was thrown into a deep ravine, kill-
ing 25 of the soldiers and injuring 100 others. It is belleved that at least 20 of
the injured will die. The cause Mrs. Emmerine Pankhurst, the English militant leader has been detained at Ellis the immigration officials. A special board case. However, President. Pankhurst's nounced that he will intercede for the country under bond.
A wreck was caused Sunday on the Big our near Sandusky, Ohio, through use
was found to type of locomotive, which
foe too heavy for the light rails. Three persons were seriously in Three persons were accidently killed When an automobile in which they were
riding was struck by a train at Trotwood, No change has occurred in the strike situation in upper Michigan. It is alleged strikers from the miners' union are oc-
curring daily. Funds and stores are being nearly depleted Gen. Daniel E. Sickles, the only sur Gettysburgs commander of the battle of birthday in New York on Monday. A, Iowa, resulted in a loss of property
walued at $\$ 415,000$. Fully one-half of city block was swept away by the flames, made by the U. S. flagship Wyoming of
the Atlantic fleet. in Lynnhaven Bay, on The Illinois Central Commission, which is arranging for the celebration of the
one-hundredth anniversary of the admis-
sion of Illinois into statehood in 1918, is Sion of Illinois into statehood in 1918, is
also asking the U. S. Congress to desig-
nate November 19, 1913 as commemoration of the fiftieth a holiday in of Ab:aham Lincoln's delivery of his fa-
mous Gettysburg address. By this mean me commission hopes to make the celeFor the first time in the history of
Michigan athleties, the Michigan Agricul tural College defeated the University of
Michigan at football on Ferry Field at being $12-7$. Reports indicate that Port Huron vot-
ers are well pleased with the commission form of government. The second election
under the new system will be held in
November and primaries are now the abAffairs in Mexico have
Affairs in Mexico have changed little
during the past week. There is scarcely any interest on the part of the general held October 26. There are three presisent, they have agreed not to allow their adherenets to participate in parades,
speech makings, and other practices that
would be likely to stir up undue party would be likely to stir up undue party
strife. Even the press is giving little at Congress has been dissolved. it is neces sary that the election be held is nerese the
authority of General Huerta and General authority of General Huerta and General
Blanquet, the War Minister. Gen. Felix Diaz, who recently went on a spen. Felial mis-
sion to Japan, is now returning to Mexco, accompanied by several Japanese en referred to above and the assassination of
several officials, apparently with the consent of the present administration, has
caused a change of attitude on the har of Washington officials, the outcome of Which change can only be awaited.
While fying outside of Berlin the new irship of Count Zeppelin was completely
destroyed and 28 persons were killed. The explosion of two tons of gasoline
wrecked the airshin when a thousand feet
n the air. Among the victims were Gernany's foremost aviation experts. This has had with hishairships during the that count Zepelin

This Magazine Section forms a part of our paper every week. Every article is written especially for it, and does not appear elsewhere.

## Mishaps of the Four Ms' October Nutting Party

IThas a bright afternoon early in Oc-
tober. The day was very warm, and the leaves were falling in a lazy, autumn had forgotten her mission and was taking summer's place. It was also fall housecleaning time, and one could carpet pounders
School was dismissed for the day. The small boys raced off for a final dip in the to have one more tea party on the lawn and were bringing out chairs, tables, dishes, and whole families of dolls.
Four young girls strolled homeward eagerly discussing a very successful endwere lively, merry girls, about fifteen years old.
"I tell you, girls," exclaimed Madge Walters, "we ought to celebrate. Here are our first month reports and w
tainly ought to be proud of them."
tainly ought to be proud of them."
"This warm day makes me think of picnic," said Molly Brooks.
"Why can't we have a pienic tomor "Yes, why not",
"Yes, why not," said Margaret Weth it will soon be too cold."
"I have it," exclaimed Molly. "Let's know that nice little to the woods. You know th
Brown's."
"That's just the place.
ood It will be a chimed in Mildred.
asked Margare
"Hickory and maple," answered Molly And I don't believe Mr. Brown would care if we gathered some of the nuts. I had taken all he wanted from the grove and anybody who wanted them was wel"I to them."
them," somebody who isn't welcome to them;" said Madge. "Robert and a lot of other boys went there last year. They clubbed the trees and broke off many mall branches. They broke down the them ond ers th out and don't think er will,, don't think they will."
sure he won't refuse, for we will in. I'm to take just the nuts lying promis ground," said Margaret. By this time they had
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$\qquad$

## hat time can you start, girls?" aske

 Märgaret.take my music lesson," said Madge
"And it's my turn to do the baking. were my sweeping day I might do
now to heat up the kitchen." "Why not start directly after dinner," ing at half-past one hold up the right hand.'
Four hands went up
"Carried," said Margaret, laughing "The next question is, what shall we take "eat?"
"Let's have a pot luck affair," said ual. Don't tell anybody what you intend to bring and we'll have a surprise."
"It will be a surprise," said Madge, "if thing

I don't think we will," said Mildred.
Then it's agreed to meet at half-past one and have pot luck, said Margaret "Meet at my house for it is on the way to the grove."

By Lillian M. COLE.
"And don't forget a basket for nuts," husband isn't home but I guess I'll do.
said Mildred.
"Why not take our lunch baskets?",
"house trees. Mrown thinks a great deal of
asked Molly.
set out himself, and all when those boys

## Indian Summer Days-by charles e. jenney

Now summer dreams, and in her dreaming sees Her glorious prime again; through leafless trees, And through the glamour of the rising haze
The leaves give, incense-like, in their last blaze
Dreams of old days, recorded not in script,
When Nature from unsullied fountains sipped;
When woods primeval flourished far and wide,

And, dreaming, sees the red man's ghost arise
And, fitfully against the darkening skies,
Dim spectres of some ancient wrongs and ire
Sees in the gloaming wigwams pitched in row,
And, gruesome sight, are those skulls there below
But daylight shows the horror-stricken gaze

So Summer dreams, and dreams of Spring once more;
And if perfect days, and August's prime lives o'e
And Spring will come again to you and I
 look much better in three or four hours." much trouble this morning as I had with my lem-", began Molly, but caught herhair. Really, girls, I told the truth for washed my hair this morning. Then, of
course, while I was curling it I managed "Serves you right for being vain," ob served Madge. "I know my basket is
heavy. Seems heavier than when heavy. Seems heavier than when we
started." "Just wait until the other one is filled "I wish it wasn't quite so warm afraid my fr-, there it goes again, ploded Molly. "I'm not going to
other single word before supper."
"'Now, Molly, don't say such things. It's wrong to tell falsehoods," said Mildred, while the others laughed at the idea of Molly keeping still. But she ma
aged to keep silent for five minutes, When the girls reached the Brown
the grove, near the brook. The water is
$\qquad$
$\qquad$ aropped wearily to the ground and said miles, I'm thinking.'

## It is more than two miles," said Madg

 "It is two miles to the corner the othe of a mile from that corner to the grove." "T'm rather tired myself. Suppose we rest and look about awhile before we be-gin to gather nuts," suggested Margaret and the tired girls gladly agreed to it, for the grove looked very cool and inAfte
After resting a few minutes they made The bright sun shining the whole grove. colored leaves, the golden-rod the brightbeautiful autumn flowers, made the whole ast they found the spring and wood. At freshing drink.
"I should think that water is good,"
kets under these bushes while we pick
"That's just the place," cried Margaret. "We'll probably eat supper here We couldn't find a more beautiful place, and it's so near the spring. We will be entertained by spring music."
For the next hour little talking was For the next hour little talking was
done for they found plenty of nuts to done for they found plenty of nuts to
keep them busy. They had removed their hats, for it was still quite shady under the trees. The wind was blowing and oceasionally a nut dropped. they are for a few hours. I don't care to have one come down on me," said Molly.
"The trees aren't tall so they don't have very far to fall. I don't believe they would hurt much if they should
strike you, Molly," said Margaret, looking up among the branches. Just as she finished speaking the wind and
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"Come down to the spring and put cold water on it," suggested sympathetic
Madge. arge turning purple. that showed signs
"Does it hurt much?", laughed Mildred. promised to sing a sol now, but row morning. I'll be a pretty thing to get up before all those people,"
"Better turn your head and sing out of the corner of your mouth," remarked Molly
Molly. I think I'll follow it,, Thank you
By the time the baskets were filled "I'm nearly starved," declared Madge. ner and really didn't have a mouthful, groaned Mildred. "How does my head look, girls?" in "It's a most beautiful purple color," "Seem Madge, a right royal purple." xamining edge," said Madge, who was Then lar d that laghed Mildred. "I bet inking of breaking her promise
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$\qquad$ ewspapers were used, with tablecloth From out the four baskets came four ples, four plates of sandwiches, a pan of one dish of fruit salad, two bottles of strong cold tea, two bottles of lemon and pickles.
Mildred. "Benglomeration!" exclaimed delicious!", But doesn't everything look "I'm glad my fruit salad isn't entirely melted, though it is rather soft. Several lemon pie are sticking belonging to my 'm thankful it's
"Lemon pie is a preat said Molly.
pienic," laughed Margar thing to take to "I know it."
something good and it's "but I wanted
know of. I burned three fingers browning the frosting, too."
"I think we have plenty of pie and olives," remarked Madge.
"What kind is yours? Mine's cherry," said Mildred.
"Mine's peach and I see Margaret's is pumpkin. Lucky me.
pie," was the answer. pie," was the answer.
"You will certainly "You will certainly get enough of it for once. I am glad they're not very
large so we can have a piece of each one. They do look so good!' exclaimed Molly. I think we better begin with more
substantial things, though," said Mar substantial things, thoug
garet, passing the beans
"The idea of a picnic without cake. W
said Mildred.
didn't bring we all thought of that and didn't bring any," put in Madge judge by the waý the good things disanpeared. After the dishes and remains of suddenly exclaimed, "Let's go wading. I saw a fine place not far off. The creek spreads out and makes a regular little
lake. It didn't look very deen, either." "All right! The very thing! Let's go!" chorused the others.
"But where are our towels?" asked Margare sun until they dry," suggested in the
laughingly used for a tableclose newspapers "Yes, wipe our feet on our tablecloth,"
 What fun it was to wade in the warm
shallow water! They padaled and splass shallow water! They padaled and splash
ed and enjoyed it as much as children woula. Mal. Madge called out. "Enough is
Finall.
 any too large when my feet are ary,"
She sat down on a a large stone at the
Sto edge of the water with her shoes and
stockings near and proceeded to dry her feet on a newspaper. A merry little breeze
came along and blew her stockings to the very edge of the bank, but she did not "Look, Madge! There go
inss!" cried Moily, excitedly. Madge reached for them but the wind was more nimble than she. It gave an-
other puff, and just as her finger tips touched the stockings, they fell off int
"oh wate

## Oh, dear me! What shall I ever do

get home!" she moaned.
"Use newspapers!" suggested Molly.
"Go without any and people will think "Go without any and people will think "I might pass muster either way if it
"I mite ones," suggested Mildred. were dark, but who wants to stay here
that long," mourned the poor unfortunate. nate. "I'll hang them on a tree in a sunny place and they'll soon dry." said Mar
garet, wringing the water out of them. Mildred and Madge were still paddling urned. As she drew near, Mildred jump ed upon a stone and began in a theatri-
cal voice, "Behold the benevolent Lady Margaret. She goes about doing only
good. She kindly suspends your most humble hosiery on the grand old hickor-
ies when the playful breezes waft them nto the-," Mildred threw out her hands to make a speech more dramatic, lost
her balance and fell into the water with
a mighty splash. migh. splash.
scrambled to her feet.
"Are you hurte" the others asked anxiously as they led her toward the bank
"No." was the shivering answer, ".
but
"
 Madd you od tookg so funys,",
Then the three girls laughed until the woods rang
 dripping. That wind isn't
either.? either."
"I should judge not by the way your teeth, are chattering," said, Margaret. "Forgive us, Mildred, for you do look ridiculous. But come, we must go up to
Brown's and get you some dry clothes. Brown's and get you some dry clothes. We'll go across the meadow
lane and nobody will see us
"I'll stay with Madge unt
"I'll stay with Madge until her stockings are dry," said holly.
saw Mildred! "You certainly look like 'a
come right in. Now take off those wet sumed things and I'll get you some dry ones.
It's lucky I was late with my baking this It's lucky I was late with my baking this
afternoon, for the range is still hot and afternoon, for the range is
your clothes will soon dry.

When clothes will soon dry." garments and sitting by the kitchen stove rying her hair, Must as funny as you did ofore That dress fits so well and is so becoming.
As Mrs. Brown was several sizes larger than slended Mildred, her clothes had to expresed it, with pins. The blue and white striped house dress had a generous tuck pinned in the skirt, the sleeves were tucked up with pins and the belt was all fell to her hips and the skirt dragged on the floor. On her feet were a large pair of fur-topped slippers that gave forth a
dismal "flip, flap, flap," with every step. "A new style of Bulgarian blouse," "It ought to be called a sharp blouse on account of the sharp points of those pins," said Mildred
Presently Madge and Molly came and readily joined in the laugh.
Then, after silence had reigned for about two minutes Molly said, "I can't understand why it wasn't me who took that tumble. I'm the
having such mishaps."
"I don't quite unde:stand how you
could slip off the stone when you were could slip off the stone when you were
five feet away from it," remarked Mildred
"That is the only reason I didn't," said Molly with a laugh. "But don't feel sorry girls. Something will happen to me
before we get home, I know. You've each had your accident and I'll have mine. I And she didn't escape. Just at the edge of town was a hill that rose gently
from the surrounding country, but had a steep slope toward town. As they reached the summit, Molly set her basket
down with a thump that loosened the fastenings of the handle on one side, but poor Molly was too tired to notice it. "I do belleve this road stretched while least four miles from here to the grove,"
"How does my head look now, girls?" asked Margaret for the tenth time. "The size remains the same, but
think the color improves. It seems to b of a deeper and more brilliant hue than was an hour ago," answered Madge "Then I feel certain I won't sing to
morrow," said Margaret, folding he hands with a look of resignation.
"I move we go home," said Mildred "S move we go home," said Mildred. Margaret. "Come on, Molly."
swer.
'Yu can't stay here all night and use your basket for a pillow, for you know your wasket for afraid of the shadows as you would be afraid of the shadows as
soon as dark comes," counseled Margaret "Quick girls!" cried Mildred, "there goes Whlle with his express wagon. Let's
have him draw the nuts home!" and off The other girls snatched up their bas kets and started off on a run. Molly didn't run far, however. As she lifted off, scattering the nuts to the ground, "Oh, girls," she cried out. "Just see "Pick them up," was the comforting
nswer, as the other three turned back. said Molly, despairingly "Never mind. We'll help you," said Margaret; "and see, here are six that "How did it happen?" asked Madge. immediately began to rain nuts," answe ed Molly, her good humor returning. ee now the handie is loose on one side. suppose I loaded it rather heavily, for
doesn't look very strong," "There's never any great loss but some small gain is with it," said Mildred. "You won't have to carry these nuts down hill

## "That is a big gain," returned Molly

 "It will be so very pleasant to carry this basket in my arms like a baby," "Tie a string to it and drag it on the ground like a sled," suggested Madge. "Provide a string and I will," cried Molly.By this time the nuts were again in the specul
tion.

Before they had gone a dozen steps nuts exclaimed, "Why didn't we put the nuts in my lunch basket and put the
dishes in the broken one?"
"Just because we didn't think of it,"
aughed Mildred.
"Let's do it now," said Madge.
The transfer was soon made and they once more started on their journey. Just then a large automobile overtook them and Margaret recognized her uncle, as he machine stopped.

Oh, Uncle Ben! I was never so glad looking for. If the lenses what you are see you in my life," she cried. "We scope are smoky you will see the gloom; are almost tired to death.

## Thrash It Out—by margaret erskine.

When folks they go agin you, as folks they often do Don't sit, about in corners of an atmospheric blue,
A-sulkin' by your lonesome, puttin' peaceful folks about;
Just clench your fists me'phoric, and with 'em thrash it out

## When you've got a bitter canker a-eatin' up your heart, Don't sit a-fondlin' it as if you feared from it to part,

 Don't sit a-fondlin' it as if you feared from it to part,But just get up an' tell folks what you'sfeelin' bad about;
There'd be no crawlin' cankers, if we'd only thrash things out.

## Molehills will soon be mountains, if we sit an' watch 'em grow; An' poundin' at the Bread o' Life, won't help keep sweet th' dough

 An' poundin at the Bread o life, won' help keep sweetNor make it better eatin'. An' of this I have no doubt.
You'll find the world nigh Heaven, when you've thrashed

## MYSTERIES OF BIRD MIGRATION

by ortn m. Crooker.
e still many unsolved mysteries
There are still many unsolved mysteries
the realm of bird migration. These in the realm of bird migration. These most clock-like regularity and often cove
thousands of miles in their migratory lights. But many things associated with these long jaunts yet remain mātters fo

It is now quite generally supposed that
birds undertake the northward flight in pring because of certain physiologica changes which prompt them to seek the usual breeding grounds of the species The southward flight in late summer and autumn is supposed to be the direct re diminishing food supply. But these suppositions may not be sald to be proven; there may be more subtle causes han these which operate to impell bird undertake these extensive journeyings hat of the migratory flights being taken for the most part by night. It has been suggested, however, that this is to more easily escape birds of prey which would probably hang upon the outskirts of such an army of migrants were they to undertake to travel by daylight. Here also the theory appears plausible, yet may be far from the truth. How birds keep their course; whether the young follow their parents the first time or some experienced leader; why they fly high on clear bright nights and low on nights of cloud and storm-all these are yet problems without n authoritative answer.
Certain species of birds present individual problems peculiar to themselves. The colden plover, for instance, starts from over the broad Atlantic, as he is not cited on land in his southward journeying. Neither is he seen on any of the islands in mid-ocean, except very occasionally vere storms. When he next comes under observation he has reached the mainland of South America. Here, then, is a dis-
tance of 2,500 miles at the very least, which, so far as anyone knows, this bird must cover at a single flight. Does he do so, or has he some as yet undiscovered
resting place in mid-ocean where he stops for food and rest? No one knows. Where does the chimney swift spend
the winter? His migratory course has the winter? His migratory course has
been traced pretty accurately through the southern states, Mexico, and Central America. Then he disappears to winter somewhere in the tropical regions of South America or possibly in the islands of the south seas. At any rate
is shrouded in mystery.
s shrouded in mystery
Why does the Redpoll visit Spitzbergen s a problem that is unsolved. There is
nothing on this bleak and inhospitable arctic land to attract even such a bird as the Redpoll who wanders in winter rather than migrates. The nearest land, too, from which he could come is Norway. He is usually found in an exhausted condition as though from a long flight such as he is not accustomed or equal to. It may be that he is the victim of some tricky air current; perhaps he is a hardy venturesome bird explorer like the Norsemen of
old, some of whom undoubtedly visited

## the shores Columbus.

The Connecticut warbler, le bird which breeds in Manitoba and winters in South America, makes its slates, but when it comes north in spring it always does so west of the Alleghanies. oo what peculiarity of bird temperamen shall we assign this vagary of flight? This is only one of innumerable mysteries which puzzle the student of birds

## QUEER ACCIDENTS TO HUNTERS.

## by isaac motes.

Considering the risks and chances hunt ers take when after big game, it is surprising that they escape unhurt from some of their adventures. It is often said that hunters lead charmed lives, and the cleverness with which they make hair-breadth escapes seems to prove the ruth of the saying. Some of these en ous or ludicrous element about them when they are recalled years after they happen despite their tragic seriousnes the time of A deer-hunting friend
A an exciting friend of mine in Texas ago with a big buck, an experience two was laughable enough after it was all over, but no "laughing matter" at the time of its occurrence. He had been told in the ratting of deer antlers together ing itation of the sounds of bucks fight which bring to the scene any bucks which might happen to be within hearing pair peculiar noise. He borrowed a next day went from a farmer, and the wods went off a mile or two into the wide-spread into an elm tree with low, knocking the antlers together began In a few minutes he saw two big bucks coming towards him, each from a different direction. They met right under him and began fighting. The fight was a long interested in watching them that he forgot all about his gun and didn't attempt ment, wnile trying to change his position in the tree so as to get a better view of what was going on directly below him, he missed his footing and fell upon the back of one of the bucks. His unexpected apimals almost out of their senses, and they quit fighting and broke for the thick timber. My friend was carried some distance upon the back of the buck before he was dumped off into a bunch of cactus. The accident might easily have led to most serious injury to the hunter, and yet no harm resulted to him.
This recalls a rather ludicrous and yet angerous adventure, an account of which hunter many years ago, which resulted in ther having a most unlooked-for ride was back of a wild, infuriated buffalo. t was many years ago, when great herds According roamed over our western plains, hunters to the story, a party of four shoot these gone out on the plains to beautiful nimals. They camped, one somewhat mountainous section, so rough that they knew a large herd would not


A Seven-year-old Farmer Reader Sends his Latest Photograph. This is a picture of me any my pony. She is a year and a half old and I going to break her next year so I can drive her to a little buggy. I am seven I hope I will see my picture in The Michigan Farmer.-Glenn Frisbie, Van Buren

# Do You Know Where "Ladies' Home Journalville" Is? 

That is what a suburb of a Southern city is called, because it is built up entirely of the small houseplans published in The Ladies' Home Journal. And all say it is "one of the prettiest suburbs" they have ever seen!
Over 25,000 houses have been built in the United States from plans published in The Ladies' Home Journal. For 20 years these plans have been published and new ones are constantly being given now.
Then, there is an Architectural Editor attached to The Ladies'Home Journal, who answers by mail, free of charge, any question about house-building, and an Interior Decoration Editor, who solves all problems about how to make a home pretty inside.
Last year these two editors answered 11,000 letters - quickly, fully and authoritatively: not in print or in the magazine, but by mail: a personal service direct and intelligent.
What these editors have learned in 20 years about house plans is at your service. A booklet, entitled "The Story of 600,000 Invisible Hands," tells something about this service. A postal-card request will bring a copy.

A year's subscription to The Ladies' Home Journal, by mail, costs $\$ 1.50$, or it may be bought from any Newsdealer or Boy Agent at 15 cents a copy.

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Mrs. Bright: "Oh, Anty Drudge! Just come and see the check for $\$ 10.00$ I got as a prize from our Farm Paper. They offered a prize for the best article on 'How to Make Housework Easy,' and I wrote about washing and doing all your work with Fels-Naptha Soap and cool or lukewarm water, and I got the prize.

Anty Drudge: "Dearie, I am proud of you. I hope your article will help lots of tiredout women, too. It's worth more that $\$ 10.00$ for women to know about Fels-Naptha Soap.

Fels-Naptha Soap dissolves greese and makes dirt disappear. It washes clothes clean, sweet and white with no hard rubbing or boiling, in cool or lukewarm water and in half the time it used to take.

Fels-Naptha makes work easy and women well. Follow the directions on the red and green wrapper.

Better buy it by the box or carton.
Fels \& Co., Philadelphia.
HILSNPPHA

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 mense advantage to be gained. by and get breakfast. She never knew until getting away from everything and every- she came to the table what she was going
one connected with their daily grind and to have to eat. And she never washed one connected with their daily grind and
looking on as a disinterested spectator for a short while, the most of the diser for and fretting would cease Young Mother tried it last of mischief, nor sigh over little sticky all the family except Husband and one mud on baby shoes. She fed no chickOld Maid Aunt disapproved, and though ens, carried no wood nor water, built no she was only gone one short week, she fires and took care of no milk. She simfeels "like a new woman," to use her ply ate all one day, then went to a con-
own words. own words.
It rad been a ha-d cumme\%. Small cert at night. She went to two women's Daughter cut some teeth, there were clubs, a lecture, an art exhibit and a quarts and quarts of fruit and vegetables demonstration in cooking, besides going to can and pickle and preserve, countless to church three times the one sunday
small chicks and some turkeys to look was there and hearing a marvelous pipe after, company from the city every Sun- organ and the best singers in the town. day or so, to say nothing of the wood and At the end of the week she was physiwater to carry when Husband occasion- eally tired out, but her mind was clear ally forgot it. She was a very Young and her nerves considerably calmed Mother, too, with a conscience out of all down. Besides she was crazy to get back proportion to her strength, and she got home, from which she had fled in despair
to feeling that the world was out of the week before. She could hardly wai joint. She worked and worked and work- to see Baby and Husband, and the near-
ed, and she thought, without getting any or she got to the farm the more she won, dered how she ever could have gon away.
The grandmothers seemed positively disappointed that they hadn't a sad tale Young Mother didn't care She home, but Young Mother didn't care. She had come back brimming full of new ideas, idea tion she attended; ideas in home decora tion she attended; dideas real dignity of home-making got from one woman's club, and a host got from one woman's club, and a host
of helpful hints about Baby Daisy's training, gleaned from the mothers' club, and the music she had heard came back to her all through the winter. On trying days she had only to close her eyes and conju:e up a mental vision of the great church with its quiet and peace, the sub aued lights coming through the stained Windows, the solemn tones of the great organ, to have the uselessness or worryplain to her
Thus one mother is a convert to the dea of leaving the children for awhile. "I know everyone but Husband and Aunt thought I was utterly heartless, she confided, "but I know I've been a back, and I love her more than ever now I've had a chance to see what life would eally be without her."
$\qquad$ So Young Mother left for a week with
$\qquad$

a cousin in a near-by town. She wanted DEborah.
The Quest-by mildred m. north.

My grandmother used to tell me Went out to look for a helpmeet
In a most unusual way.

Of course, he wanted her lovely,
He wanted nice things to eat,
But above all things to be saving,
And likewise clean and neat. And he vowed that he would find her,
The lass who should be his wife; or he'd go with his socks unmended
For the rest of his natural life.
nd his grandmother told him,
When he asked her what she though
what That a lass who scraped her breadtray
Would prove the one he sought. Now this youth was good to look at
Dark eyes and dark brown hair,
With a face that was bright and wi $\qquad$ ning What had brought him on his quest, Still he put her to the test. But she laughed, half shy, half sauc
As she st:oked Bay Billy's nose: As she stoked Bay Billy's nose. "Will he eat his oats without then
Just this once do you suppose? "Mother always cleans her breadboar And it seemed Bay Billy's master
Was well pleased with her reply
herever his fancy led him
There he stopped and asked to rest
And always of some maiden
He made this strange request:
"I would buy some oats for Billy He's been taught a silly whim
And if it is quite convenient
Will you please to humor him.

## For he lingered, loath to leave her <br> Came again another day, And One Day in pride and triumph And One Day in pride and triumph Came and bore his bride away.

So now, lassies, scrape the breadboard,
$\begin{array}{ll}\text { "If some scrapings from your bread tray } & \text { So now, lassies, scrape the bread } \\ \text { You will sprinkle on his fede, } & \text { Have it clean and neat I pray, } \\ \text { will surely thank you kindly, } & \text { For some day a gallant stranger } \\ \text { Billy will be pleased indeed." } & \text { May come riding by your way. }\end{array}$ And each maiden sweet and blushing
Quickly hastened from the door. Scraped the breadtray, brought the
scrapingsSome were ne'er so clean before. Some had few and some had many,
Still he smiled and rode away, And at night their dreams ware haunted
By the stranger and his bay Then one evening just at sunset,
He beheld a cottage small,",
Where red roses leaned and listene Where red roses leaned and listene
Nodding o'er a low stone wall. And a maiden bade him enter
With a face so fair and sweet
That he quite forgot Bay Billy That he quite forgot Bay Billy.
And the fare that he must eat. With a face that was bright and winning
And a manner debonair. And one morning bright and early He donned his Sunday best
And with his horse, Bay Billy,
Set out upon his quest.

I think my way of making bread so good and at the same time so simple, that I would like to offer it, especially for complicated.

Three medium-sized potatoes are about right for a good-sized baking. In cold weather take enough potatoes for three good bakings, about 20 good-sized loaves, boil, mash, and using the water they were boiled in add enough to fill a one-gallon a cup of sugar and when lukewarm a
east cake. Make in the afternoon.

In the morning take a third of it, add a cant quart of water, a small handful of salt and flour for a thick batter.
When light mix into a hard loaf, let rise, form into loaves, let rise and bake. This for a large baking.

In warm weather proceed in like manner only making enough for one baking t a the. Nhe yeast shoz I hove allow freeze
I wecipes calling for two, and ing three, strong taste to bread, besides making it stron
There is such a difference in flour that ne cannot give a rule for the amount. ome flour you must mix till you are tired out, to get the bread mixed hard enough, While with other flour the mixing is great thing in making bread. But it lways pays to get good flour
I hope this will help some beginner to make good bread that will rest well on the good man's "tummy," for I have a "feeling" for beginners, and also for any workingman who has to live on poor working mar ome food, and good bread is the founda ion of good food.

## LETTER BOX.

In Answer to "Signs of the Times." Dear Deborah:-Think for a moment what has caused this lack of religion we find so prevalent everywhere. Has it not really been forced upon us? Is it not better that people make no pretense at something they will not put into prac

If I profess to believe in the teachings ffesus and then go about my daily take adyantage of my fellowman opporty to bor, or whomsoever I fellowman, neighpham a fraud? is business places such demands on us then had we not better keep still about religion? When ou can get the business man, the real estate man, the monopolies and trusts, and the heads of our governments chrisyou will have no taught them to be, then you will have no trouble in keeping this ican people.
So long as the middle classes or laboring classes see that religion is only used and subordination, so long will religion diminish. diminish
I have had many talks with persons who claimed to have a strong belief in it into practice was applied, they replied that was not business. So, then, we infer that religion is theory, business is prac-tice.-Yours, Hay Rube.

## AN EVENING WITH BOOKS

## by irma b. Matthews.

It is really quite difficult to plan an entertainment for an evening party, for it seems that there is nothing new to be thought of. The writer recently was asked to plan something and after due thought decided to have an evening with books.
After the guests were assembled they were invited into the dining room where the table was covered with a number of pictures and articles, and they were told was supplied with paper and pencil and



Get This \$250 Coat Without Cost To You!
It's just the thing for farm use; warm,
weather-proof and just the right length weather-proof and just the right length
for work. Will wear well. Has high storm collar which can be fastened snugly around the head, protecting ears,
face and neck. It's double breasted race and neck. It's double b
and has large, roomy pockets.
The regular price of this coat is $\$ 3$.
And the only reason we can
And the only reason we can sell at that
price is the fact that we make the cloth
as well as the coat. Everything but
Warm the buttons is made in Warm $\begin{aligned} & \text { Neat }\end{aligned} \begin{aligned} & \text { the buttons is mace in } \\ & \text { oufacturing factory. Man- }\end{aligned}$ Cheap $2 \begin{aligned} & \text { ufacturing costs a } \\ & \text { reduce to a ominimum } \\ & \text { But to ithtroduce tur }\end{aligned}$

But to introduce these
coats we will sell them
for $\$ 2.50$ tor

Get a Coat Without Cost iberal. plan a whery
oy one individual in
y.

Whe beats you toit
Hine oformake aftul
coats. hisher priced
couts.
M21 Hearst Bldg.. Chicago, III.



WANTED ${ }^{- \text {Men and women for }}$ povernmen
I oondnotod Government Examinations. Trinl oiz
amination free.
Write, OZMENT, 17 R . St. Louit
Everyone enjoyed it and had much bility of reform. In many cases the man sport over some of their guesses. Below in his own work. Yet the installation o is a list of the books use, with titles, a water system, it has been reckoned, selves to those wishing to use them. and such a system in a houss drudgery, Picture of
Indianapolis,
> of
written bith
$h$ Hon
belo Gicture of a cowboy, and Virginia above
it. (The Virginian). Two pictures joined, one a man with
several sheep, the other a mountains. (The Shepherd of the Hills): A sman wiack stone. (Black Rock).
upright on top of iture of a man pinned
(The Man on the Box).
A basin containing several tiny
branches from a tree set thickly into it,
the basin must first be filled with sand, in
the center the basin must first be filled with sand, in
the center a king from a playing card. (When Wilderness Was King).
A match. (The Lamplighter).
A picture of a wild cat, any wild animay may be used instead, below was written, "calling his mate." (The Call of
the wild).
A pair of wings cut from white paper. A pair of wings cut from white paper.
(White Wings).
A p piece of lavender on a piece of old
lace, if the lavender cannot be obtained use a piece of lavender cloth instead. immediately install a small plant but ase a piece of lavender cloth instead. will supply his home and save the pre-
(Lavender and old Lace). Picture with the head removed and an-
other pinned on that looks back. (Looking Backward).
A rose. (The Rosary).
A letter cut from red paper. (The
Scarlet Letter) It might even go far to solve the problem of discontent on the farm, which is problems of our times. Under conditions
$\qquad$
$\qquad$
$\qquad$


## the sand table

## $= \pm= \pm 1$ <br> $\square$

 WONDER how many mothers whohave little children that are too small
to go to school, have begun to plan

ed. Ice cream and cake is good, although
the hostess on this occasion, used jello
with cake instead, and cups of hot coffee.

## DO YOU CARRY A TON OF WATER

BY charlotre bird.
The president of the Mississippi Nor
mal College has estimated that every day
day, including wash day the
day, including wash way, the farmer's
wife lifts on an average the week throug
ter time playing indoors than one a alone

wom or water. This is the average when we made one for our small son house without a modern water supply. he wauld play by the half years old but The same investigator claims that the and hollows in the clean, white sand water used for cooking on the farm, is Being sure some of the sand would be
handled six times and each time it is handed six times and each time it is
lifted. It is lifted from the well, carrie
to the kitchen, poured out for different
uses and at length is emptied out of doors. For the three meals a day ten
bucketfuls are needed, which, having
been been lifted six times, is equivalent to
1,200 pounds of lifting. If one adds the
water used in
$\qquad$
$\square$

## Whamin. Most generally, though, water for household uses on the farm continue

## monly draped hand, not very com- get to make this play more interesting,

 the primitive way the well by bucket in such as small trains of cars, little ani-mals and tiny dolls that cannot easily be
But sometimes the well is rods away broken. from the house. Whether the supply be housesi and barns of the sand or with in which case it has necessarily to be other trees make trees and bushes den on any woman, one really not to be be taught little children with the use of unnecessary. such an expenditure of strength avold magazine and they will be found interestpurchase of some article which would In this way the mother may teach he he not buy, the machine immediately with to school, especially in the country where the self-assurance that every year it there are no kindergartens. Both mother
would pay for itself? But so it has al- and child will profit by the hours spent ween cheap but arduous till she herself without.

Infants' and Children's SHOES


This Sho
Whis Shoe Our Price:

 In ordering state size. with or without
color of quarier desiried, Butoon or Lace.

HAROLD SHOE SUPPLY HOUSE
READING, PA., U. S. A.
LET US TAN
YOUR HIDE.


The Crosby Frisian Fur Compa

- 571 Lyell Ave., Rochester, N.


"W EAR Stephenson Underwear - Union Suits and Two-Piece-gentlemen. It's the real-wool kind. Nature grows wool on animals for humanity fellow nature and comfort and health will be yours"
It's strongly made in sizes and weight for every man, lasts long,
and the women like it because it launders well and saves much mending. Every garment is guar-
anteed satisfactory to wearer-so anteed satisfactory
look for this label-


## STEPHENSON UNDERTEAR

No. 00. Natural gray lamb's wool; composed of 96 per centof white lamb's
wool and 4 per cent of black Kentucky wool and 4 per cent of black Kentucky
wool; not an ounce of cotton or adultwool; not an ounce of cotton or adult-
erant used in its manufacture; no dye erant used in its manufacture; no dye
used, the coloring being bback wool; one of the several STEPHENSON One of the several
(Staley Brand) garments that no other minil
ant attempts to duplicate. wears two to four sea-
sonss comestrom the tub as goo an new:
noes
 Write for Interesting Booklet on Underwea
other numbers as low as $\$ 1.00$ per garment. Other numbers as lew as $\$ 1.00$ per garment.
Stephenson Underwear Mills, South Bend, Ind

Product Sold to Merchants Only

Tower's Fish Brand Reflex Slicker
JUST THE COAT FOR DRIVING WHEN IT RAINS
Face any storm in it and you'll return "Dry as a bone". No water can reach you even
through the openings between the buttonsthat's where our famous Reflex Edges protect you by keeping out every drop. Roomy, comfortable, and so well made that it

## $\$ 3.00 \underset{\text { SUTTSFACTION }}{\text { GUARATEED }}$

At your dealer's, or sent prepaid on receipt
of price. Send for catalog of Fish Brand

## A. J. TOWER CO. TOWER:S BOSTON <br> 

## Road Machinery

Everything for Road Building. The oldest
Company in the business with the Latest
Improved Machinery. Send for handTHE AUSTIN WESTERN ROAD MACHINERY CO., CHICAGO


WIITED-A Aracto
 Just Say "Saw your ad. in the $\begin{gathered}\text { Michtgan } \\ \text { Farmer" when writhing advertisers }\end{gathered}$

## Farm Commerce.

CITIES ARE SEEKING BETTER MAR KETING CONDITIONS,

Municipal Market at Lansing.
The municipal market of Lansing, cated at Grand avenue and Shiawassee street, was opened Tuesday morning, O tober 7, and upwards of 60 farmers, with wagons loaded with produce, were on
hand before six o'clock. Soon many Lan hand before six o'clock. Soon many Lan-
sing citizens appeared with baskets on their arms and crowded about the wagons eager to purchase the fresh wag tables.
tables.
The
he mayor and several city officials were there early to see exactly how it the showing. A. P. Rogers, sealer of weights and measures, assisted by a patrolman, were in charge of the market wagons. They inspected the measures used and found practically all of them correct. When the market opened the
following Thursday morning, besides the following Thursday morning, besides the vegetables and fruit the women sold cooki $\epsilon$ s, cake and buns, for which there was a brisk demand. It is apparent that the
city market is popular with the produce city market is popular with the produce
growers of Ingham and adjacent coungrowers of Ingham and adjacent coun-
ties. Mayor Reutter has had the matter in mind for a long time and is delighted

Flint Prepares for a Market.
The common council of Flint has voted
to erect a concrete and steel market
building on the city market site near the river on Smith street. The building will
cost about $\$ 7,000$ and will for loads of produce. The loads will stand on the concrete floor, backed up to the raised cement walk which will run
through the middle of the market floor.
Fuyers will ure this walk in making pur Fuyers will use this walk in making pur-
chases from the wagons. The city is also building on the market site a shed con-
taining nine stalls which will accommodate two teams each, and a hay shed in seven sections, each of which will shelter
two loads of hay. These buildings will be thrown open for convenience of farm-
ers and city buyers when completed. and city buyers when completed.
Pontiac Wants a City Market.
Pontiac city officials are making plans
for a municipal market but have not selected the site for same as yet. A pos sible site on the west side of Clinton street is held by the owners at $\$ 16,000$ and Mayor Johnson favors starting condemnation proceedings. Conversion of Mill treet between Lawrence and Pike streets into a market place is also favored, with hitching posts placed along the street where farmers may tie their horses and carry on busiriess from the wagons.

Manictique Needs a Market.
way needs of Schoolcraft county in the way of a city markett at Manistique are
being agitated. Under present conditions being agitated. Under present conditions as the Pioneer-Tribune of that city says,
farmers must peddle their product town and take the stuff home again when town and take the stuff home again when
they do not sell out. With a city marthey do not sell out. With a city mar-
ket, and commission men as an adjunct the producer would always find a ready outlet for what he had to sell, and this plan would assist in developing the counIt has been shown that Schoolcraft raises just as fine fruit and vegetables as can be found in the state, and business men gold buy their supplies at home instead going long distances even outside the Kent Co. $\qquad$ Griffen. HANDLING PERISHABLE PRODUCTS.

The value of the poultry and eggs used in a year in the United States is about
$\$ 750,000,000$. About 10 $\$ 750,000,000$. About 10 per cent of these on account of decay the farm are lost the consumer. That means an annual loss of $\$ 75,000,000$ in this one industry. able food industries. The desirability of reducing these losses to a minimum considerable degree, due to improve methods of transportation and handling People who do not produce anything edifarmer must feed them. Getting perishable foods to the city consumer is a va and important problem. The United States Department of Agriculture is doing much
to improve the handling of such products


The above map of lower Michigan shows 20 centers of population having over 10,000 people. The shaded circles are drawn to represent the probable territory from which the city residents draw supplies that are sold direct from farmers' sumers and producers, and as a result of the agitation councils of many cities have recently provided for markets while the fathers of other cities are contemplating ordinances making such provisions. In these columns we shall give these markets special attention during the coming year.
so as to reduce losses. And the predictions of the weather bureain as to whether
it is going to be safe to ship products it is going to be safe to ship products come frozen have helped a great deal.
A good example of beneficial government aid is to be found in the case of the California citrus fruit industry. Ten years ago California oranges and lemons dealers. This was because of the fruit percentage of the high ed many things for this gotting then the government for this rotting. Then found that mechanical injuries to the skin of the fruits permitted the entrance of spores of blue mould and that this mould caused the decay. The growers gloved the hands of the fruit pickers, changed the construction of the clippers, put prings under the wagons and in other ways protected the fruit skins. Now this is ittle decay and eastern cities in prefer Califor and even cities in England, of them. The Department buy millions has also helped to make peach growing great industry for the south. They are Proper handling with the aid of refrigeration has succeeded in getting Oregon raspberries as far east as Minneapolis in ers order. The same government worksave made it possible to keep Amerian grapes to add to our Christmas good Tra
Transportation of perishable products becomes more and more important as the
territory which must be drawn feed our large cities become to wider. Eastern cities such as New York draw upon Georgia for peach New York nions, Washington for fish, Iowa for eggs and California for fruits. Although Michtheir and Ohio have many large cities of go east. Each product their products own. Refrigeration is probablys of its important generally used help. The loss in each industry varies; in many it is being markedly reduced and study is gong to mean reduction for others. Stopping to think about it all, it fills me with wonder at that the loss is so mall as it is.

THIS MAY BE AN OPPORTUNITV
If you are perfectly satisfied with the tests returned, by your milk or cream buyer, our free testing service will not appeal to you; but if not you should join the crowd to learn if your buyer is giv-
ing you a "square deal." The testing of milk fre
special advantage charge is a special advantage offered Michigan The directions are very simple: Put sample of milk or cream that is satisfactory to you and the buyer, in widemouthed bottle, enclose bottle in mailing carmer Laboratories and post to Michigan hue, Detroit, Mich.
ing case we cannot provide bottle and mailconcern to provide a manged with a large cents and a case and bottle for ten cents in stamps. When asking for mailing cases and. bottle address Michigan Farmer, Detroit, but in sending the sample of
milk be sure to address it to Michigan milk be sure to address it to Michigan nue, Detroit.
ith with each sample of milk or cream, for
covering postage, your mailing case and bottle will be returned.

## A SUCCESSFUL SEASON

The first year of the reorganized fruit exchange at St. Joseph, Mich., is proving xchange will handle between that the 300 cars of grapes this year, which is about 25 per cent of a normal outputt, the crop having suffered heavily from frost last spring.
A year ago 756 cars were loaded from
this district, while in 1911, 150 cars sent out, the latter year being the banner one in the history of the district. isfactory in spite of the short crop. The season is closing with basket selling at 20 c , after having dropped from the opening price of 19 c , down to 15 c .
Care has been exercised
the grapes for marketing. The preparing the grapes for marketing. The state law and the rules adopted by the exchange on
inspection and grading have been rigidly inspection and grading have been rigidly
enforced. This has added to the benefits coming from the exchange, buyers being much please with their purchases.

Crop and Market Notes.


## AUCTION SALE

Wednesday, Oct. 29, 1913, $10^{\text {'clock, P.M. }}$
Nostrand Herd of
 1 JERSEY BULL in Nostrand Farm
$1 / 2$ miles north of Grand River Ave., on the Evergreen Road, $31 / 2$ miles North and East of Redford Village, Wayne Co. Prospective purchasers from distance desiring to take interurban will be met by auto at Grand River Ave. and Evergreen Road, between 10 and 12 o'clock.

TERNS-3 per cent discount for cash. One year's time good bankable notes, interest 6 per cent

## 1000 Hereford Calves <br> will bi PUBLIC SALE

 ,us. $=5=5$ Tallula, Illinois Third Annual Mule Colt Show will also be held. Will sell Thirty Big Broke Mules $\begin{aligned} & \text { and a few horses, among them six } \\ & \text { Comb ine } \\ & \text { and brie to all sights }\end{aligned}$ and safe. ATEND commences at 10:30 Charles C. Judy, thlinoisMule Sale
a, m. Allstockloaded on carsiree

## Dispersion Sale.

Reg. Percheron Horses and Holstein Cattle WEDNESDAY, Oct. 29, 1913




FOR SALE


MAPLE SYRUP MAKERS


GRIMM MANUFACTURING CO.
The Largest and Best Line of

## SHEPHERD PLAID SKIRTS



## A

Why not have best leht?
 Steel Mantle LightCO. $\mathbf{3}$ (3) Stroet Foledo, $\mathbf{0}$.


Farm Wanted Wat Rod impow tion
 Farms and Farm Lanas For Sale


 Beatitu Poultry \& Truck Farms
 MICHIGAN FARMING LANDS


 Ogemaw Co.., Mich., Cut Over Hard Wood Lands.

McClure $=$ Stevens Land Co.


## A FINE DAIRY FARM

 Widow will Sacrifice for Immediate Sale

 Mone y M aking Farm for sale.


For sale For Cash Coid puphe tigit pad



## Markets.

GRAINS AND SEEDS.

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## Wednesday <br> $\stackrel{\text { Friday }}{ }$ Saturday <br> Monday Tuesday Chicago


 immediate and prompt, shipment being
quoted at $\$ 1.95$ per but, Oct. $\$ 1.95$, and
January $\$ 2$. Chicago, (Oct. 20)- Market steady with
light arrivals; supply almost entirely in
the hands of dealers. picked, are quoted at $\$ \$ @ 2.10$ per hu;
commor. $\$ 1.501 .75$, choice red kidneys
$\$ \$ .45 @ 2.50$, and white kidneys, nominal, Rye.-Quotations for this cereal have
advance a cent during the week. Cash
No 2 . market is dull. At Chicago the price for
the same grade is $641 /(065$.
Barley. - Barley sales were
 Cloversaed.-This market is steady. Al-
though in some sections. particuarly in
the southern counties of Michigan Oht of seed, in other sections the yield is only
fair and the areage very small. These
influences so balance as to keep prices at Detroit at $\$ 7.80$ per bu; Oct. and Dec.,
$\$ 7.80$; March, $\$ 7.90$; October alsike, $\$ 10.25$
$\$ 7.25$ per bu.
Timothy seed.-A small advance is not-

## ed in th. per bu.

## FLOUR AND FEEDS.

## 




## DAIRY AND POULTRY PRODUCTS.

 Butter.-Butter of good quality is firm-er than a week ago, top grades showing
sume advance in some markets. Creainsume advance in some markets. Crearn-
eries are quoted at 1 c lower in the local market, but are very steady, while dair-
ies and packing stock remain unchanged.
Quotations now are: Extra creamery, 30 c
 Elgin.-Market firm at $291 / \mathrm{c}$ per 1 lb .
Chicago- Extra creamery is up $1 / \mathrm{c}$ un-
der a good demand which also extends to the cheapest grades. Medium quali-
ties barely steady and rather hard to
move. Packing goods easier and fractionally iower under increasing orferings;
Quotations ane
extrat
axter
 stock 22c.
New. York.-
ies hoth creameries and dair-
have made a good advance, the bet-


 manding outside figures at all points. ket a very firm tone but quotations re-
main unchanged. Current offerings cand-
led, quoted at 27 per ozen.
Chicago.-With receipts
rhowing a Chicago.-With receipts showing a
gradual deceline this market is very firm,
fiesh laid and fresh mathered stock sell-
ing readily Firsts

 cent over last week. Quotations are:
Fresh eathered extras 34 eatic; extra
firsts $31 @ 33$; firsts $29 @ 30$ c; western gathered whites $30 @ 40$ per dozen.
Poultry. Receipts of poultry are lighter
this week and include a considerable proportion of poorly conditioned stock of of
ferings of of ouality are higher, chickens
 $14 @ 141 / \mathrm{c} ;$ No. 2 hens $10 @ 12$ c; old roosters
10@11. urkeys, $17 @ 18 \mathrm{c}$; geese, $13 @ 14 \mathrm{c}$;
ducks $15 @ 16 \mathrm{c}$.
Chicago.-Supply ample, making dis-
crimination against poorly finished stock Chicago.-Supply ample, making dis-
crimination against poorly finished stock
possible. Turkeys are noticeably lower,
due to timited demand. Chickens are
about steady, while ducks of good quality
are quoted 1c himher

 cream. $17 @ 171 / \mathrm{c}$ c. limburger, $141 / 2(15 \mathrm{c} 15$.
Veai.-Rather sare in the local mar-
Demand moderate. Quotations are:
 market improving. Quoted as follows:
Fancy 15 c per lb; god to choice $90 @ 110$
bs. $131 /$ 1b $141 / 2 \mathrm{c}$; fair to good $60 @ 90$ 1bs.,
fruits and vegetables.

 at $25 @ 26 \mathrm{c}$. At Chicago the market is
fair with recitst small. General quota-
tion, 25 Q29a for 8-1b. baskets.
 Potatoes. - Although the trade seems
dull just now and prices are unchanged from last week, there is a common opin-
ion that values are destined to go higher.
Quotations
In bulk, 60 @ 65 c per bu; in sacks, $65 @ 70 \mathrm{c}$ per bu. At Chicago trade
rules higher. Receipts last week were


## PRICES ON DETROIT EASTERN MAR-

There was a smaller number of farmers wagons on the eastern market on
Tuesday morning. Buyers were numerTuesday morning. Buyers were numer-
ous enough to keep values firm with last
week's quotations. Potatoes of good grade week's quotations. Potatoes of good grade
selling at about 85 per bu. Cabbages

Hay.-Condition of deal is. unchanged.
Carlots on the track at Detroit are: No.

## Re Ran Rec Sa

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$\$ 7.3$
Cattle prices were on the down-grad
most of last week, because of increasin receipts at a time when the general re-
quirements of buyers were not particu-
larly large. The strictly yearling prime larly large. The strictly yearling prime
beeves sold as high as a week earlier,
these being in active request, and and high record for the year was made when a sale was made of 15 fancy $849-\mathrm{lb}$. steers
at $\$ 9.60$. The most striking feature of the ling steers and helfers mixed at $\$ 999.55$
with the better class of heavy with the better class of heavy steers sell-
ing at $\$ 8.85 @ 9.20$. Steers sold largely a
$\$ 7.85 @ 9.35$ the common, to fair lightweight grassy lots bringing $\$ 7 @ 8$ and and
few inferior steers going as low as $\$ 6.75$ Very good cattle of strong os weights
brought $\$ 8.50$, and medium lots brought $\$ 8.10$ and over, while butchering cows and
heifers found an outlet at $\$ 4.90 @ 8.25$ with scattering sales of a few head of brought $\$ 4.30 @ 4.85$, canners $\$ 3.25 @ 4.25$ and
bulls $\$ 4.85 @ 7.80$. Declining prices hers to increase sales of stockers and feeders,
the former going at $\$ 5.50 @ 7.60$ for infer ior to prime selected lots and the latter at $\$ 6.50 @ 7.75$, while stock and feeding
cows and heifers brought $\$ 4.65 @ 6.90$ and
stock calves $\$ 7.15 @ 7.75$. An imp stock calves $\$ 7.15 @ 7.75$. An important factor in the stocker trade is furnished
by large importations by the way of Buf-
falo from Ontario, many finding their way to Pennsylvania, This acts to weaken pricés on this side of the line by checkCalves were bought freely this market.
at
and milleh
milch cows sold fairly

THE LIVE STOCK MARKETS.
Buffalo.
October 20, 1913.
(Special Report of Duntinger \& Steven
New 1913.
York Central Stock Yards,
East Buffalo, New York)
Receipts of stock here today as follows:
Cattle 250 cars; hogs 125 double decks; sheep and lambs 65 double decks; calves
1000 head. market here today, and 19,000 reported in Chicago, our cattle market was very un-
even. Cattle with good quality and fin-
ish, weighing from 1.300 to 1.450 lbs ing from $5 @ 10 \mathrm{c}$ lower than last Monday. showed good finish and good heifer stuff
selling
from $10 @ 15 \mathrm{c}$ higher than last
week. Cow stuff about steady, except trimmers, which sold some lower. The
cattle that was anyways off in quality or cacked finish sold $10 @ 15 \mathrm{c}$ per cwt. lower.
At the close of the market there was
about a dozen loads left over weighty cattle.
We quote: Best 1350 to $1450-1 \mathrm{~b}$. native
steers, $\$ 8.50 @ 8.75 ;$ best 1200 to $1300-1 \mathrm{~b}$.
do, $\$ 8.25 @ 8.50$; best 1100 to $1200-1 \mathrm{~b}$. do, do, $\$ 8.25 @ 8.50$; best plain to $1200-\mathrm{lb}$. do,
$\$ 8 @ 8.5$ coarse and plainhty steers
native, $\$ 7.25 @ 7.50$ best Canada steers
1250 1350 to $1450-1 \mathrm{bs}$., $\$ 7.85 @ 8.25 ;$ do 1150 to
$1250, \$ 7.25 @ 7.75$ chice handy steers, 1000 to $1100, \$ 7.75 @ 8 ;$ fair to good steers,
1000 to $1100, \$ 7.25 @ 7.50 ;$ grassy 800 to
$1000-1 \mathrm{~b}$. steers, $\$ 6.25 @ 6.75 ;$ best cows, $\$ 6.25 @ 6.75$; butcher cows, $\$ 5 @ 6 ;$ cutters,
$\$ 4.25 @ 4.50$; trimmers, $\$ 3.85 @ 3.90$; medium butcher heifers, $\$ 6.50 @ 7$; best heifers
 best butcher bulls, $\$ 6.50 @$ steers, $\$ 5$ bologna bulls
$\$ 5.25 @ 5.75$; stock bulls, $\$ 5 @(.50$ b best
milkers and springers, $\$ 70 @ 80$ common milkers and springers, $\$ 70 @ 80$; common
to good do, $\$ 50 @ 60$.
We had a liberal supply of hogs today and a slow market at the start; prices
generally $5 @ 10 \mathrm{c}$ lower. Few hogs sold at
$\$ 8.60$, but the bulk landed around $\$ 8.50$.
pigs and lights $\$ 7.75 @ 8$; roughs $\$ 7.50 @$ 7.75 ; stags $\$ 6.50 @ 7.50$.
The sheep and lamb market was ac-
tive today; prices on lambs quarter higher than the close of last week; most of
the choice lambs selling from $\$ 7.65 @ 7.75$.
Sheep market steady. Look for lower prices on lambs the last of the week as
we are too high compared with We quote: Choice lambs, $\$ 7.65 @ 7.75$;
cull to fair do, $\$ 6 @ 7.50$; yearlings, $\$ 5.50$ $@ 6.25 ;$ bucks, $\$ 3 @ 3.50$; wethers, $\$ 5.25 @$
$5.35 ;$ handy ewes, $\$ 4.75 @ 5 ;$ heavy ewes,
$\$ 4.50 @ 4.65$; cull sheep $\$ 3 @ 3.50$ veals $\$ 4.50 @ 4.65$ cull sheep, $\$ 3 @ 3.50$;
choice to extra, $\$ 11(11.50$ fair to
$\$ 10 @ 10.50$; heavy calves, $\$ 5.50 @ 8$.

## Chicago.


$\qquad$





 lambs were in oood demand tonanep th
er prices, and the best lambs went a



##  <br>  was cool enough to be pleasant and and com- fortable to do work. Two light showers during that month kept the grass look- ing well and furnished stock with pasture. Live stock on pasture is as a re- sult looking well and will enter the win- ter in good in sight for winter feeding. On local markets hens are selling at $10 @ 12 \mathrm{c}$ per lb ; hogs $\$ 7.30$ per cwt; milch cows are public sales. Horses are more reasonable <br> Deuell Couth Dakota <br> Deuell Co., Oct. 11. - Not much rain an farmers are busy digging potatoes which run from 75 to 200 bushels per acre. Price is 45 e per bu; threshing is nearly fall. Cattle and hogs are a a good price and not many for sale. <br> Foster Co., Oct, 7.-Since the last re- port, threshing is finished; wheat will average about 10 bushels per acre; bar- ley 30; flax 10 . Potato yield is not as heavy as was expected earlier in the season. Fall seeding of rye is now on, The fall run of poultry is scarce, butter feed lot, and they are doing fine for this class of feed. <br> the best excepted, sold $40 @ 60 \mathrm{c}$ lower than two weeks ago, heavy steers catching it two weeks ago, heavy steers catching it the wrerst. Late in the week a train of of 15 cars of Canadian stockers and feeders arrived. Hogs underwent some rallies last week because of smaller receipts but there was not much stability to prices, and reac- not moty followed. Speculators, were good buyers at times, but it happened rather buyer buyers at times, but it happened rather frequently that when they tried to resell their purchases they had to accept lower prices. Whenever eastern shippers fowiled to buy hogs freely the market was apt to weaken, Weaken, provided the receipts were of merous, shipments being largely from cholera-stricken sections of Iowa, and sales were made at comparatively low prices, although the insatiable demand for fresh pig pork furnished a good outlet, packers making liberal profits. There is a lack of the usual good fall demand for provisions, and packers are pemanning to to place the hog market on a lower basis for their packing her packing operations during the win- ter packing season. Prime butcher hogs est sellers, and prime light hogs sold at a further discount. Provision decligh saw hogs of late. The close of the wave at $\$ 7.75 @ 8.50$, with one sale at $\$ 8.55$. A week earlier hogs brought $\$ 7.80 @ 8.65$. Hogs weighing from 225 to 275 lbs. went highest, while pigs brought $\$ 4.50 @ 7.90$, stags $\$ 8,30 @ 8.60$, bars $\$ 1.50 @$ 3 and throwout packing sows $\$ 6.75 @ 7.70$. hogs sold the lowest of any time since Sheep and lambs arrived less freely last week than a short time ago, with lambs greatly predominating, and, feeder lambs comprising a big share. The feeder trade was extremely active all the time, and prices were wind prices were well maintained generally, great numbers going to the country. es- pecially to Michigan. Packers wery to force some sharp breaks in prices for mutton lambs, however, having little cor petition to face, whereas buyers of fleshy feeders had to compete with slaughterproved sheep were relatively scarce and the week's close moast fat lambs were 10 a 20 c lower than a week earlier, but ma tu:ed sheep were generally no lower. Lambs elosed at $\$ 5 @ 7.10$ yearlings at $\$ 4.75 @ 5.75$ wethers at $\$ 4.40 @ 55$ ewes at er lambs brought $\$ 5.75 @ 63.85$, feeder ewes $\$ 3 @ 4.85$ and breeding ewes $\$ 4$ fe5. Feed (Continued from page 373) <br> lexing fine. The prospects for a crop soaked the sub-soil. About Ab har thoroughly son cent of the usual acreage is being sown to wheat this fall., The weather for sown the past month has been ideal, only one trost lows: Wheat The local market is as fol <br> Hitchoock Co., Oct. 11.-The past weather which reminds us that winter is lately that are helping geveral nice rains putting the ground in towards ropting the ground in shape for another rop. People are all busy seeding wheat rom one to to 400 acres. Some fields are paying from horses for eastern markets, sound horses that are fat. Cattle are in Antelope Co., Oct. 9.-September, in this section of the state, was a very good small rains that wet down four or two inches, but aside from this it has been ry and damage to crops has been large from lack of moisture. Corn is about ready to shock and threshing is prac- tically done. Yield of small grain was tatoes bute very poor, hay is light. Sood. Po- tatock few cases of cholera and hogs are mov- ing freely towards markets. They are orth $\$ 7.20$ per cwt; hens 10@12; corn

 at each. Late in the week calves slump-
 줄 .

THIS IS THE LAST EDITION. In the first edition the Detroit Live
Stock Markets are reports of last week;
all other, markets are right up to date. all other, markets are right up to deeke,
Thatsay's Detroit Live stock markets
The edition is mailed ${ }^{\text {Th }}$,
tion Friday morning.
mailed to those who
malled to those who care more to get the
paper early than they do for Thursday's
Detroit Live Stock marke ers may change from one edition to anDETROIT LIVE STOCK MARKETS. Thursday's Market.
Cattle. and canners are
Receipts, 1367. Bulls and cat last week. We quote: Extra dry-fed steers and
heifers. $\$ 8$; steers and heifers. do that are fat, 500 to to 700 , $\$ 6$ @ 6.50 ; choice fat cows, $\$ 5.75 @ 6.25$; good do, $\$ 5.25 @ 5.50$;
common do, $\$ 4.25 @ 4.50$; canners, $\$ 394$;
choice heavy bulls, $\$ 6.25 @ 6.50 ;$
 medium Bishop, B. \& H. sold Sullivan P. Co. 2
 $\$ 6$.
121
at
cow
Co.

$\begin{gathered}\text { Hogs. }\end{gathered}$
$\begin{gathered}\text { Receipts, } 6241 \text { Tops, } \$ 8.10 ; \text { light to good } \\ \text { butchers, } \$ 8 @ 8.10 ; \text { pigs, } \$ 7 @ 7.25 ; \text { heavies, }\end{gathered}$ $\$ 8 @ 8.10$. ${ }^{\text {Rom. Co. sold Sullivan P. Co. } 600}$
av 180 at $\$ 8.10$. 51 av 165 at $\$ 8$. av 180 at, $\$ 8.10,51$ av 165 at $\$ 8$. 160 av 175
Bishop, B. \& $\$$. sold same 160 . $\$ 8$. ${ }^{\text {Spicer \& R. sold }}$
450 av 190 at $\$ 8.10$. Hammond, S. \& Bishop, B. \& $H$. sold same 2,800 av 180
at $\$ 8.10,710$ av 170 at $\$ 8.05,515$ av 150
at $\$ 7$. Haley \& M. sold Parker, W. \& Co. 58
av 185 at $\$ 8.10$.

Friday's Market. Receipts this week, 1497; last week,
1587; market steady.
We quote: Extra dry-fed steers and 1200, $\$ 7 @ 7.50$; do 800 to 1000 , $\$ 6.50 @ 7$,
grass steers and heifers that are fat, 500
to 700 . $\$ 5.50 @ 6.50 ;$ choice fat cows, $88 ;$
good do, $\$ 5.25 @ 5.50 ;$ common do, $\$ 4.25 @$
 milkers, large, young, medium age, $\$ 75 @ 1$ Receipts this wek, 548 ; last week, 561
market steady. Best, $\$ 10 @ 11$; others, $\$ 5$ Sheep and Lambs.
Receipts this week, 6261 ; last week,
8244 market steady, Best lambs, $\$ 6.75$,
fair to good lambs, $\$ 6.25 @ 6.50 ;$ light to
lamer common lambs, $\$ 5 @ 6$; fair to good sheep
$\$ 3.75 @ 4.25$; culls and common, $\$ 3 @ 3.50$. Receipts this week, 7015; last week,
7389; market slow; 5c lower than yesterRange of prices: Light to good butch
ers $\$ 8.25 @ 8.30 ;$ pigs, $\$ 707.75 ;$ mixed, $\$ 8.2$
@8.30; heavy, $\$ 8.25 @ 8.30$. INTERNATIONAL ENTRIES CLOSE
NOVEMBER 1. Readers who contemplate making ex
hibits at this year's International should bear in mind hat entries close November
1, and that no time should be lost in mak-
ing entries to get them in before the final CATTLE FEEDERS, ATTENTION. In the issue of Sept. 27 we published an
advertisement for Harry field, Ia, in which he offered for sale 100
head of feeding steers and his services in
securing others at a commission of 50
at av investigating the reliability of advertisers
43 we wrote a bank and a leading merchan
at in Frairfeld, both of who replied in his t favor, before the advertisement was in
v serted. As a result of the advertisemen
5 sone of our subscribers went to Fairfield utation of the advertiser unsavory, Fur-
ther investigations are under way and
until same are completed we would advise readers to suspend their confidence
in this advertiser, whose copy was ac-
cepted by us in good faith after investigation as above note
lishing Company.
American cattlemen have been holding
thousands of Mexican cattle in bond in thoussands of Mexican cattle in bond in
E1 Paso and at other places on the interEl Paso and at other places on the inter-
national boundary line. waiting for final
action on the tariff bill. Cattlemen are permitted to hold such cattle in bond for

Daniel McCaffrey's Sons Co. PITTSBURG, PA

HAY Potatoes, Apples. We pay highest market pric 2,000 FERRETS They hustle rats and rabbits. Small FARMERS - We are paying ${ }^{5}$ cents abote the


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## 




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Buy A World Record Rolstein Bul


## Bigolow's Holstein Farms

## Breedsville, Mich.

Have for sale several fine young bulls out of cows with high officia butter and milk records.
Send for circular.

ETop-Mosoh Holsteins. and butter records for sale at reasonable prices.
MoPHERSON FARMS CO., Howell, Mlohlgan.
Bull Ready For Service.
A grand son of Pietertie Hengervelds Count
DeKol, and out of Bertha Josaphine Nudine
This is analmost faultless individual, Guaranteed This is an almost faultless individual, Guaranteed
right in every particular, and "wirt' chean to a
quick buyer. Also 7 good cows, one fresh-th quick buyer. Also good cows, one fresh-the
others yet to freshen. The above would make a
fine herd for some one. sila50 will buy the hunh L. E. CONNELL, Fayette, Ohio.
 BUTTER BRED JERSEY BULIS CRYSTAL SPRING STOCK FARMI FOR SALE-Jersey Bull Calf
 Lillie Farmstead Jerseys



 alves cows with Register of Merit and Oow Testing
IRVIN FOX, Allegan. Mioh


3 Choice Shorthorn Bulls For Sale.



SHEEP.

 OXFORD RAMS AND EWES FOR SALE at Three-Year-Old OXFORD and SHROPSHIRE Rams SHEEP FOR SALE IN CARLOAD LOTS. Registered Merino Rams For Sale. Reg. Ramobuillet Sheep, Pure Bred Poland China HOGS and PERCHERRON HORSES. ${ }^{23}$ mile
 The Ingleside Farm is offering more and bette before: All stock recorded. Write us what you wan
HERBERT E. POWELL. Ionia. Mich. Citizon's Phone. SHROPSHIRES


 MAPLESHADE FARM SHROPSHIRES Reg, yearling and ram lambe ${ }^{25}$ ewe and 15 ewe
lamb. WM. P. PULLING \& SoN, Parma, Michigan. Reg. Shropshirs ${ }^{-2}$ and 3 yr. old rams and some extra SHROPSHIRE YEARLING $\begin{gathered}\text { and two-year-old Rams } \\ \text { Good ones, priced to sell }\end{gathered}$ SHROPSHIRE RAMS AND EWES FOR SALE. HOGS.
Durocs \& Yictorias E Desirable Bunch of Sows of
M. T. Story, R. R. 48 Lowell. Mreed dve April and May. Oity Phone 55,

 BERKSHIRES $\begin{gathered}\text { - Boars ready for servic } \\ \text { sil } \\ \text { regitered. } \\ \text { Borars }\end{gathered}$ Beautiful Young BERKSHIRE SOW sired by best son out of a daughter of the World's Champion Premier
Longellow Price 850 Worth sion Pige ither max.
Ki5 each. $\mathbf{C .}$. D. WOODBURY, Lansing, MIch.


 O.I.C's. - Taking Orders for Sept. Pigs, pairs and




 Duroc Jersey Boars For Sale, of the large growthy
type also 2 Reg. Percheron
(Breeders' Directory continued on page 333.)


FARM 5ETTLEMENT



The Central of Georgia Ry. has conThe Central of Georgia Ry. has con-
tracted with the owner of the best tracted with the owner of the best
available tract along its lines to subavailable tract along its lines to subon terms of one-third cash, balance in 3 years at $6 \%$. Most of the farms have half or more cleared land.
Farms sold only to white farmers in

Farms of 25 to 200 Acres
If you want a Southern farm home, this
is your opportunity. Write today for
for is your opportunity. Write today for
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bama and Goorghi, the Ho He-Seekers basca ond Gaorrgile, the Home.-Seeker
Opportunity That Was Overlooked." J. F. JACKSON, Agricultural Agt.

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Savannab, Ga.
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673 Broad St, Phillipsburg, N. J.


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Don't rut roads or foll folds. Send oday for $f$,
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Money back or a new roof if it de-
eriorates or rusts out. No painting
Wou. costs no more than ordinary roof-
Write for big illustrated book FREE.
The American Iron Roofing CoE.
StationG
ELLRLU, oHig.
Pulverized Lime Rock
 LAKE SHORE STONE CO., MIWalkoo, Wis. LOOK HERE! DO you want a BAG MARKER?
 PALL PLANTING IS BEST


## Horticulture.

Tomatoes, Cabbage and Co-operation.

THE business of growing cabbage, who contracted their cabbage this year, dale county, is confined practically ering with reluctance, their meager crop to two townships. From the nature of while the men who declined to contract they are grown on a large scale, is small 15 per ton. Of course, the firm cannot in comparison with that of most other contract for more than the average price crops. Because of this fact, it will be of in a normal year.
interest to many to know how cabbage This state of affairs leads to a query: and tomatoes stood the unprecedented If the farmers of one township can ow drought experienced in this section dur- and manage successfully, a co-operative
ing the summer and early autumn. Grow- creamery, why cannot the farmers o ing the summer and early autumn. Grow- creamery, why cannot the farmers of
ers of these products in sections not af- other townships own and operate successinterested in the subject; and those not ney? Such a co-operative concern would
ind familiar with the business will find in- erable the grower to reap much better terest in comparing them with the crops returns for his labor. Much more of the
with which they are familiar. money would remain in the community let us first take the cabbage industry. brisk. Of course, this is up to the farmThe growing of this product in this locality is by no means new. It has been tried out for a dozen years or better, by
farmers who have grown the crop annually. It is an established industry, and
recognized as a paying business. The growers of cabbage have gone through never one so disastrous as the present
 FALL BEARING STRAWBERRIES. at a standstill, the ground devoid of mois- berries were not picked from plants that better than 90 in the shade. The effect overbearing sorts, the nature of which is and postpone the harvest. The plants from which these berries disastrous the pest which followed in its breeder of lowa, several years ago, becabbage worm is the only enemy and but public. There was five varieties in the row or two of plants around the field ericus and Francis. What have these
may be destroyed, but there the destruc- en plants done, with us?
tion ceases. But this season the weather plat The thought of having strawberries to
created conditions favorable for the cab- The bage louse and while the plants were place on the market right along through
practically at a standstill these pests de- the month of July, August, September he only effective remedy, and these did upon first thought, it is. So the writer
ot come till close to the first of October. proceeded to try these sorts out, in high
In spite of these conditions, however, hopes that we had hit on something that In spite of these conditions, however, hopes that we had hit on something that
the crop is not a total failure. Rain has would materialize as a bonanza. For five will do much for the cabbage fields. No under differing conditions. Last season
$\qquad$
$\qquad$ tirely in dollars and cents, while this is berries retailed at 25 cents a quart box.
not true of corn and other products fed This was not nearly enough to place the money indirectly. In considering the growing of tomatoes, regular sorts. This result was secured it should be mentioned that this business from spring-set plants. The plants were
is new, and still in its experimental stage, set in hedge rows, after the manner of
though the succesful crop of last year the method we practice with our regular though the successful crop of last year the method we practice with our regular
proved beyond a doubt the practicability sorts. Blossoms were kept off until July䏛 of cabbage, the drought was not so bad us that it was extremely doubtful if these
as what followed in its wake. Weather overbearing sorts would ever be able to conditions produced tomato rot, and many large to $\qquad$ seless. But with the tomatoes as with to give them up entirely, and without
the eabbage, rains and favorable weather further trial; so I concluded to grow the

## As a general thing, cabbage is grown the sort of treatment that they would get

 extensively only in the neighborhood of a under general field culture; and we havekrout mill, and usually tomatoes are got practically nothing from them, three grown in the vicinity of a cannery, al- or four quarts through the season.
though this is not always the case. Firms far as the writer is concerned, a few of the members of which are usually non- the plants will be put in a favorable place anneries. In order to conform to good filling their orders, these firms must of for attempting to malar season. A ecessity contract the crop of the grow- ular part of our operations, it is useless ers before the seeds are sown. It is true hat in this locality, some growers decline contract their cabbage, but it is also
rue that some must do so, if the krout ill ine overbearing strawberry is not a pracavorable season like the present, always ditions as prevail in sections of mor
from those secured by us. The strawberry requires quite a generous amount of warmth and sunshine to insure perfect development of its fruit; and while we get usual thing get the degree of warmth required, not during the late summer and autumn, at least. Under right conditions, that is, a rich soil, and abundance of moisture, these plants will produce a
creditable amount of fruit, and it may be oreditable amount of fruit, and it may be worth the effort, to the grower, to try of having this fruit out of season; even such a climate as prevails with; even After all, I am not perfectly sure it ould be such a very desirable thing to ave a strawberry crop to harvest right hing would get pretty monotonous after while; the same thing, day after day no week after week. As it is, after three ire of it; and this is especially true as egards the pickers. It would be too much like factory work to suit me. One of many other avocations is the neve ending change; at least the changes are become monotonous. HE STRAWBERRY BED.

The other day I saw a neighbor working up the ground of his old strawberry distance he was making an excellent a of the work. He went back and forth in until the soil must have been thoroughly mellowed, good and deep. Then one of his boys hitched the horse to the hay rake and gave the patch a good combing and few days prior to this the vines ish raked had been mowed and the rubneighbor no doubt thought he was doing as. nd, berthes, the labor was misplaced, result. If this work had been done digood would have resulted, but, piven at this late date, the last half of September, it seems to the writer that any posthe injury done in thus destroying growth made by the plants in preparing for next
season's harvest. No doubt a lack of nowledge is the cause of a great deal of
all, have had personal experience along this line; be held in mind is to induce the plants to make as large a growth of new vines
and roots as possible, and this is best fter tished by getting busy directly providing conditions favorable for new growth in root and crown through a deeply mellowed soil and subsequent shalen proper treatment directly after har-
$\qquad$
$\qquad$ ith a luxuriant growth of vines and MAKIING LIME-SULPHUR SOLUTION Tests were made recently by the Virginia Station in the home manufacture sisted by various growers throughout the and steam were of about equal value in cooking the material, both from the tandpoint of cost and efficiency, but
steam heat was much more easily controlled. Both burnt and hydrated lime were about equally effective, but the hy-
drated lime was easier to handle, kept longer without becoming carbonate, and gave a higher percentage of clear con-
centrate. Ground quicklime was found to be undesirable. The $50: 100: 50$ formula gave best results and the $40: 80: 50$ next, formula. A home-made solution containing a proportion of sludge appears to be almost as valuable for spraying as a
clear solution, providing it has been propclear solution, providing it has been properly made. Home-made concentrated
lime-sulphur solution was found to cost lime-sulphur solution was found to cost cially prepared at current prices commercially prepared at current prices. It reit is not generally as constant in strence as the best commercial brands.

## Veterinary.

CONDUCTED BY W. C. FAIR, v. s. Advice through this department is free to our subseribers. Each communcication case in full; also name and address of writer. Initials only will be published. hany queries are answeree that apply to watched carefully you will probably find
he desired information in a reply the desired indormation in a reply that
has been made to someste when
els private practice, and a fee of $\$ 1.00$ must

Luxation of stifle--I have a five-yearof stifle joint whenever she stands in stable, but when out in pasture 1 have work her all the time, she is not lame, but when backing I notice a little catch
and she shows it some when steppin
 Mich-The ligaments that hold cap in
position are weak and if you will clip off hair and apply one part powdered can-
tharides and eight parts fresh lard every
and stall foor should be higher behind than
n front for when she stands in this sition the bone is better held in place. Rheumatism-Bots.-I bought a team
of horses last spring which were shipped here from South Dakota and two months stumble and show a little lameness oceass was much worse preceding storms. am feeding them $21 / 2$ qts. to each of hey want. in they both passed some grubs. What is the cause of these con-
ditions and what treatment do you rechorses suffered from rheumatism and sulphate iron, powequal parts powdered each one a tablespoonful at a dose in one-halt quarts of oats at a feed is not
enough for a work horse. They should be fed twice that quanstity morying and
noon and three or four quarts in then nooning.
Sore Throat.- I have a cow which I
feed bran and green corn, besides she runs in pasture; her appetite is opor and
whenever she eats or drinks she froths and drools from mouth. Have given her
soda, salts and giner. but she does not
improve improve. W. M., South Haven, Mich. $\overrightarrow{\text { Apply one part turpentine, one part aqua }}$ ammonia and three parts olive oil to throat every day or two and dissolve 1 dr . of
chlorate of potash in a pint of water and give it to her as a drench, pouring it into mouth slowly in order that it may gargle times a day.
Rheumatism-Tuberculosis of the Liver Rheumatism-Tuberculosis of the Liver
Therkeys.-We have a six-year-old cow which we expect to fatten this winter
that has gone lame in left hind leg, but fat has gone lame in left hind leg, but
fail to find any swelling or tenderness in any part of the leg. My hens and turhave lost several grown chat ails thems and maness and every one that I have examined after death has enlarged liver; besides,
it is covered with yellowish white spots varying in size from a pin head to a mar-
ble, some of these bunches were filled
with matter and the liver has with matter and the liver has a rotten
appearance. Mrs. E. G. C., Walled Lake Mich.-Give your cow a tablespoonful of
powdered nitrate of potash at a dose in eed twice a day, If you find a tender
pot apply spirits of camphor twie your chickens suffer from tuberculosis been tested for tuberculosis and do you Simple Catarrh.-Several of my chickens are sick; have a watery discharg
rom eyes, some swelling of some of their heads are larger than nor-
mal. None of them have died, but I feaz it a fatal disease. After a few days'
ickness the comb darkens. Mrs. A. C be roosting in a damp, draughty place which is causing the whole trouble; be-
sides, they may be drinking impure water , or their roost may need cleaning and
disinfecting. Without studyíng the caus. earning what it is then removing it litcure. Remove sick from healthy and give
some of the following compound powder
at at a dose in feed three times a day:
Ground gentian, cinchona, baking soda Parasitic Worms Infesting the Digestive Apparatus.-For the past two months keys and several of them have died. Those that have died have shown a dullness, droppings are yellow and soft and weaker until they die. I have tried all the remedies I could think of and have
been giving copperas in their drinking water turkeys 25 grs. powdered areca nut at a dose three times a week for two
weeks; also give them equal parts ground ginger and gentian with each meal. adgrown bird twice a day. It is needless for me to say you should clean and thorquality of food.


## 2 : 1 Carrier Rigid and Rod Track Combined

POLAND CHINAS
The Large Prolific Kind Hybine ficis SPRING BOARS
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 Prices right. W. J. Hagel Chinas and Single Comb White Leghorns Poland Chinas and Single Comb White Leghorns.
B. M. WING \& son. Sheridan. Mehigan.
 P. C. MARCH AMD APRIL PIGS Kine Iong bodied FOR SALE E-Poland Ohina Boars, March POLAND CHINAS - Choice lot of gring pitgs,

 Butler's Big Bone Prolific Poland Chinas
 LARGE TYPE P. C. FALL PIGS all sold Have tho

350 BIG TYPE MULE FOOT HOGS-All agee for

 IMPROVED LARGE YORKSHIRES
 YORISHIRE SWINE-A fow ohoioo boars left Lillie Farmstead Yorkshires


This new JAMES Carrier has all the advantages of the rigid track inside the barn-the celebrated JAMES I-beam track that can be bent away with the expense for curves; the $J$ AMES simpple, sure-working switches; the "button-
on, hangers that make the carrier easy to on ", langers that make the carrier easy to
erect; a tub that can be quickly dropped to erect; a tub that can be quickly dropped to to
the floor for liaciing, and that, stays put", whire loading-track can't stays hent"
carrier moves only when ou pusht other features that make barn cleaning other fe
easy.
This
his carrier has all the advantages of
tand at the barn door, give the rier a shove, the car-
the dest, dumps at
the desired
ret turns auto point and James Manufacturing Co., AU-31 Cane St., Ft. Atkinson, Wis. "Originators of Sanitary Barn Equipment Ideas"
 walking through the wet yard and through the
snow. An ingenious device makes dumping certain. The 2 -in-1 Carrier is the newest JAMES improvement-backed by all the qual ity, reputation and experience that have made JAMun Carriers an JAMES Sanitary Bar Equipment famous and successful. We're enthusiastic about it! So is every M who ses It is one of the most sensible and valuable ever put on the market, and is rot in winner. before youl invest about the 2 -in- 1 Carrie The JAMES is a complete line of carries "Big Boy" and "Mascot" for rigid track, each in - sin-1" for "Chore-Boy" for rod track; and the 2 -in- 1 " for use on a combination of the two tracks. All the know-how ability that has made JAMES Sanitary Barn Equipment such a nation-wide suc-
Cow Pens, Manure Car-
riers, Feed Trucks and Dairy Barn Ventilators.



I have started more breeders on the road to snc cess than any man living. have thelargest and fin
est herd in the V . S . EVery one an early doveloper
ready



ESSEX PICS ${ }^{- \text {We }}$ are offering just now

Duroc Jerseys - 20 Spring Boars Ready to Ship darex U. EDmonos, Hastings, michigan DUROCS, Good Enough to Ship Without the Money Duroc-Jerseys - Spring boars from prize-win. Drookwater Farm, R. F. D. No. 7. Ann Arbor, Miloh.

## Poultry and Bees.

 EXPERIENCE WFRONT HOUSE.
 of the builder, to to failure, on the par sential point in its construction, and tha is the making of the rear and end wall
absolutely tight. A house of this con struction which admits drafts of ai front is bound to be drafty and cold, fact which will not be disputed by an
$\qquad$ In locations where winters are sever months it is best that brood rearing b rather active during late summer, so tha of colony may go into winter with plent lack of vitality they should be replace lack of vitality they should be replace
early, so that the colony will not becom queenless during the winter
The most important considerations wintering are plenty of young bees,
good queen, and plenty of stores of good good queen, and plenty of stores of good
quality. Sound hives and proper protec essential in cold regions.
If, as cold weather approaches, the bees do not have stores, they must be fed
Every colony should have 25 to 40 pounds, depending upon the length of the winter and all eggs sold, the two coldest months and method of wintering. If feeding
showed a clear average profit of $\$ 4.20$ per practiced, honey may be used, but syrup eek from each 60 hens. be found here. Nearly all are the old-
fashioned houses which are really nothing more than a place in which to roost. Such some instances they are without win-
made from granulated sugar, is just a itively to be free from disease. Winte that it will not be after early enough to open the colonies after cold weathe omes on. Honey dew should not be left In wintering bees out of doors the amount of protection depends upon the
severity of the winters. Dampness is harder for bees to withstand than cold
$\qquad$


Shortens Moulting Period-Makes Them Lay




the far West. Never sold by pecclers. Taken off pasture. put on dry feed and closely
contped your stock are apt to get outo firx dur-
che






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that any man can understand at a glance.
JAS. P. ELLIS, $35-37$ Mill St., Middlletown, N. Y.
Formerly $137-139 \mathbf{~ W . ~ 2 9 t h ~ S t . . ~ N e w ~ Y o r k . ~}$

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catag
Pioneer Manufacturing Company Middlebury, Indiana.

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Bourbon Red Turkeys for sale. Hens $\$ 2.50$ Toms $\$ 3$
 FOR SALE-PMare bred Rose Comb White Barred Rock Cockerels and Hens, Bargain Prices W. O. COFFMAN, R. No. 6, Benton Harbor, Mich. PRIZE WINNING

 If You Want Eggs Next Winter birp Pinae Creses whitio
 LILLIE FARIISTEAD POULTRY
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 $\frac{\text { DOGS AND FERRETS. }}{\frac{\text { FOX AND WOLF HOUNDS }}{}}$ FOX AND WOLF HOUNDS

 HOUMDS FOR HUNTING Fox, Coon, Skunk FERRETS FERRETS-A AsEGIALTY. Beot Rat and Use NATCO Tile-They Last Forever

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Farm drainage needs durable tile. Our drain tile are made of best
Ohfo clay, thoroughly hard burned. Dont have to dig 'em up to be
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 Also manufacturers of the famons NATCO IMPERISHABLE
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FING COMPANY, Fulton Building PITTSBURG, PA.

Grange.

Our Motto- "The farmer is of more
consequence than the farm, and should be
first improved." THE NOVEMBER PROGRAMS.
State Lecturer's Suggestions for Fir:t
Meeting.
Song.
Washing day helps, by three women.
Recitation.
Down to date "Question Box" on farm
practices. Members number about the
hall and even ask questions for odd num-
bers to answer).
Recitation, "Brown's Example,"
How can we better social conditions for
country boys and girls? by a man and
woman.
Humorous song.
Harvest mareh, by young people.
Fruit exhibit, in charge of committee
who serve it for refreshments at close of
program.
Closing song.
Suggestions for Second Meeting.
Ten minute song service.
Current events.
Recitation, "Keep it Before the People."
Book review.
Ironing day helps, by three women.
Song by quartet. by the see State Grange
Things I would like to see
do, by two men and two women.
Instrumental music.
"Surprise feature."
one war one GRANGE GRows. It was "social day" at my home Grange.
To call it "social day" is, after all, to
give it something of a misnomer; for the
program in Ypsilanti Grange, No, 56 , is program in Ypsilant
and always has bee
this in
hour th
maste
i before




 a class to initiate
There is something in such definite, clear cut planning, which goes straight to
my sense of the Grange fitness of things. It seems as if it is as it should be. It
smacks of doing things. It shows the ap-
preciation which the Grange has of its own stability and value. It denotes a healthy
tions of numbers, since all who need the
Grange are not yet enrolled as members. It sounds business-like. Rather than sit ting down and letting who will come in the "highways and byways" to invite them to come in.
One of our dear old members is fond o saying "Man is a pe-petual becoming:"
so I like to think that the Grange body itself is, also, "perpetually becoming"
something more and more. This it as something more
suredly does as it seeks always to touch
more lives with its usefulness and there more lives with its usefulness and there
usefulness in its community.
JENNIE BuElL.

[^1]

## COMING EVENTS.



Farmers' Clubs

Address all communications relative


CLUB DISCUSSIONS.


A POWERFUL $1 \frac{1}{2}$ H. P. ENGINE starts Easiest, Runs Quietest, always ready
GRAND RAPIDS SUPPLY CO., Or gifforo Emeine coi. Lansing, Mich., u. s. A.


## Discuss Three Important Topics- most happy and instructive meeting o

\%awd wividix
county, was held at the home of Mr. and
Mrs. Albert Schultz, Wednesday Octobe

1. After the
eral topics were taken up and discussed
among them being one on Michigan's new
milk and cream law by George Tauth
who said in part: "Mik is the mos
.




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At once a few men, who are hustlers, for
soliciting. No experience necessary. soliciting. No experience necessary.
The work is dignified, healthful and instructive. In writing give referhorse and buggy of your own Addrege BOX J. F., Care Michigan Farmer, Detroit KEEP YOUR RECORDS for 10 YEARS



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THE infinite advantages and manifest economies of large, unrestricted automobile production must be clear and evident even to those who have neither experience nor conception of what governs, controls and limits a manufacturing institution. It is a certain and established fact that the largest automobile producer can readily get his manufacturing costs far below the "average" and thus undersell the "market."

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Look at the newest Overland.
The wheelbase has been increased to 114 inches.

But the price is lower than ever.

## Price down!

The motor is more powerful. It has been increased to 35 horsepower.

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The tires are larger- $33 \times 4 \mathrm{in}$. Q. D.
But the price is lower than ever.
The equipment includes such costly additions as electric lights all around-head, side and taileven under the dash.

But the price is lower than ever.
The body is designed with full cowl dash and finished in Brewster green with lighter green striping and trimmed in polished nickel and aluminum.

But the price is lower than ever.
Then there are Timken bearings; a $\$ 40$ jeweled Stewart Speedometer (set so that it can be read from the driver's seat) an electric horn, deeper upholstery, and an 18 -inch steering wheel.

But the price is lower than ever.
And so we could go on, almost indefinitely, giving new additional features-new value in-creases-one after the other.

You had better see this car before you buy. Any one of our dealers will be glad to give you full details and a thorough demonstration.

There is lan Overland dealer right in your town. Look him up today. We advise prompt action for in seven days after our 1914 announcement we had immediate shipping orders for over 5,000 cars.

Handsome 1914 Catalogue on request. Please address Dept. 86.
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Electric head, side tail and dash lighta Storage battery 35 Horsepower motor 114 -inch wheelbase Timken bearings Splitdorf magneto Model R Schebler carburetor
Three-quarter floating rear axle
$33 \times 4$ Q. D. tires
Cowl dash


Brewster green body with light green striping, nickel and aluminum trimmings
Deeper upholstery Mohair top, curtains and boot
Clear-vision windshield Stewart speedometer Electric horn Flush U doors with concealed hinges


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[^1]:    

