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## Little Stories About Big Farmers.

## How One Young Man Launched Into a Successful Truck Farming Business.

SHOULD you happen to be the owner lost in transit so I decided to clear and land is cleared sheep are used to clean He uses a complete high grade fertilize a old swamp pasture and notice drain the land and raise vegetables. out the weeds and small sprouts. The carrying four per cent nitrogen, eight pe
mysterious stranger driving cattle "The first problem was to secure the close grazing puts the land in good shape cent potash and seven per cent phos through your vicinity you may have cause capital necessary to develop the property, to be plowed. Mr. Austin, who still has to be alarmed. If he drives up to your I had undertaken a proposition too big to a fondness for stock, drove to the further farm and talks about renting your pas- handle with my resources. I interested end of the farm to show me his flock of ture a few days the chances are he in- some of my friends; we organized the weed exterminators and sprout killers. He
tends to steal your land. One Orleans Medina Vegetable Company and began said: "Four years ago I bought 300 sheep, tends to steal your land. One Orleans Medina. Vegetable Company and began said: "Four years ago I bought 300 sheep,
county New York farmer was the victim business. It cost us about $\$ 150$ per acre nearly all with lamb, for $\$ 3.50$ per head, county New York farmer was the victim business. It cost us about $\$ 150$ per acre nearly all with lamb, for $\$ 3.50$ per head,
of a smooth, young drover who rented his to clear and drain the land, but by getting about 400 lambs have been sold at from pasture to allow his cattle to recuperate. some of it in shape to produce crops, we $\$ 3$ to $\$ 5$ per head, about 200 old sheep at along he threw the owner of the land into fields at times when our help and teams ty good profits in view of the fact that the throes of surprise by offering him $\$ 24$ per acre for swamp land. It required but aid Amazement became epidemic in the young drover, by the name of Austin, had bought the old swamp and made plans to import $6,000,000$ pollywogs as the foundation for a herd of French bull frogs, and the old swamp was to be a breeding farm. "Those young fellows will be importing a flock of Jersey skeeters next to furnish food for their pesky bull frogs and then we old residents will have to get out, ed to squire Martin, as he transferred the property to F. W. Austin. This incident merely suggested that if you have a few acres of swamp land do not sell it until you know something concerning its value. Years ago farmers regarded low swamp land as practically worthless; merely a breeding place for mosquitoes and bull frogs. Today fortunes running into inestimable millions are berich swamps. Instead of being looked upon as waste land, truck growers find it of the greatest value in grwing highly organized vegetable crops. Commercially much of this swamp land is acquiring a standard value of from $\$ 500$ to $\$ 1,000$ per acre.
In about five years of agricultural work, observation that impressed me the most was a visit to the truck farm operated by with the farm and understand what the young man has done with it, one must know something of the man himself. When a boy he worked on farms and for buyer dealers, then he became a catte covered that he was in a game where the expenses were eating up the profits. To compete with other buyers he had to be content with relatively small profits. But his bump of shrewdness was developed at His days were spent searching for head. His days were spent searching for cattle planning It was a mighty, food schol in planning. It was a mighty good school in problems and mastering them But he was not and with a drover's life; he wished to get into something where the profits were larger and where he could be at home more of the time. Finally it dawned upon him that farming was the business in which these objections were fewest; he decided to become a farmer. One of his friends was making a great success on reclaimed marsh land. He searched widely to find some swamp land of a silimar nature. Eventually he found the old swamp he had dreamed about. "Here," confesses Mr. Austin, "I had to use a little strategy in approaching the owner of the swamp regarding the purper acre. My shipment of pollywogs was

ere not busy with the crops. This plan have used them to clean up the land and of clearing and draining the land at utilize waste feeds
times of the year when our help and teams All the land is plowed in the fall; the were not busy has worked so nicely that aeration of the soil and freezing and we are trying to buy some of the adjoin- thawing during the winter and spring ng land at $\$ 250$ per acre. I have put in tends to dissolve the peat into muck more
bout five years of strenuous work get- rapidly than when the land is plowed in ting things organized, but we are getting the spring. In plowing muck land a steel mon a position to make some money from plow cleans better than the chilled iron. Potatoes are the first crop
The drainage of this muck land is pro- planted on the new land; the yield varies ditches that flow into a from 100 to 300 bushels per acre under to the mile. The first year after the ditions. Mr. Austin uses but little lime


Sorting Carrots to the Quality Demanded by a Discriminating Market
horic acid which costs $\$ 30$ per ton in arload lots. By spending $\$ 10$ to $\$ 15$ more rons and mature earlier than is better growth only potash applied Thetash phosphoric aci f fertilizer being relatively a small item the cost of preparing the ground, seeding, cultivating, harvesting Mr. Austin the crops. Mr. Austin has had many obstacles to road from the farm to the state a stone cold storage plant in Medina road. The $\$ 30,000$, but considerable of the space is rented to fruit growers and commission dealers who operate in that section Mr Austin figures that storage and shipping facilities should represent from 20 to 30 per cent of the investment. He said: our business succes times without our storage house. Some we want them, besides by holding the produce it is many times possible to get much better prices than would be the case if we had to put it on a glutted market. So their small truck growers have to move their produce as soon as it is harvested
that it has a demoralizing effect upon the all has a demoralizing effect upon the invest ten dollars in a truck farm unless had storage facilities for my produce," Four acres of land is equipped with overhead irrigation and used chiefly to start close culture of celery. Next year the system is to be extended to an adjoining six acres which will be used for the close culture of the celery crop. Without the grow young plants, we very difficult to the cost of starting the celery plants does not exceed $\$ 20$ per hundred thousand The water is pumped from springs on the farm At the farm is a large shed where the vegetables are gathered, graded and pack d. A machine cuts the tops off and runs bout eight men. The illustration shows the Italians at work bagging carrots for market; each bag contains 100 pounds and has the firm's name attached. Mr. Ausis recognizes the fact that when a crop and grading is an important item; that produce of good quality, well grown, properly packed and graded, with the grower's name on the package strengthens the market and increases the demand for markets quality and individuality usually markets quality and individuality usually commands a premium.
In discussing the various crops, yields nd varieties, Mr. Austin said: "We find the best adapted to our soil and climate We buy our seed of a friend of mine who has spent several years in perfecting a high yielding strain of this variety of onons which will excel in yield, quality, have lost thousands of appearance. W ing with poor seed, and find that the satisfactory way of getting good seed is o buy it from men who conduct a rigid election of specimens from which they produce seed. Onions yield about 800 bushels to the acre on this farm and prices average about 60 cents per bushel.


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ton lettuce and find it one of the best spring oat crop market varieties for our conditions. The
prices average about $\$ 1$ per box. The prices average about $\$ 1$ per box. The
Golden Heart Self-blanching celery is the best variety of celery. This year's crop will be about 50 carloads of about 200
crates to the car. Most of our sales have crates to the car. Most of our sales have
been at $\$ 2$ per crate. Carrots are one of our best crops. This year's crop aver-
aged 1,200 bushels per acre on 20 acres. The average prices are about $\$ 10$ per ton.
All of our celery and carrot seed comes from France; we have tried the Danish seed but the results have been unsatis-
factory. Next year we will have 80 acres of onions, celery, lettuce and carrots. This
year we only had 65 acres under cultiva-
tion to these crops; the sales will amount to more than $\$ 50,000$. Most of the produce
is shipped to New York, Philadelphia and
Boston, although we have sold a number Boston, although we have sold a number
of cars of celery to Chicago and other
All of the help employed on this farm
are Italians. Mr. Austin said: "The Ital. ans are the best laborers I can get for
the trucking business. I have tried out
all kinds of help, but I can take my gang of Italians and do more work in a season than I can wit men I have ever had for
are tho best men
grubbing, ditch digging and opening up a
piece of land. I have worked with these
$\qquad$ ittle houses, rent hem two or three acres
of land and give them employment."
It requires both practical and scientific knowledge to achieve success on a big
truck farm. One must be practical, in-
teligent and ambitious, giving due importance to climate, location, soil, mois-
ture, seed, fertilizer, cultivation and mar-times is toward specialization, as veget
bies can be produced at less cost pe acre when grown in large quantities. Such
a grower is recognized in the market, and
his produce sought for by buyer thermore, when grown in this way the
crops reach a higher degree of perfection, due to a more thorough knowleage of their
needs and careful attention to culture
than is than is possible where a wide variety of
crops, each needing special care, are
grown rots well packed and sola in carload lots truck, improperly packed in small quan-
tities, goes begging at prices which pay no profit to the growers. Mr. Austin has
combined the practical with the seientific; DISKING INSTEAD OF FALL PLOW

For the past two years I have disked plowing, as has been my custom for a
number of years. Last year my yield of
$\qquad$ was about as good as the average in this
section, as this season was not as favorable for oats as it was last. While it is
hard to tell whether the yield of oats
would have been any better, if the land had been fall plowed, yet I believe there
is an advantage in fall plowing on such soll as my farm is composed of, as the
subsoil is clay, and by plowing quite deep the fall, and mixing an inch or two of he clay subsoil with the top surface, it
eems to have a beneficial effect on the wheat which is sown in the fall after the oats. And when plowing the oat stubble
for wheat it is easier to plow to a fair epth when the same land had been fall when a disk was used. Another advan-
diow, when a disk was used. Another advanin the oats, and less corn stubble on the
surface to bother the drill. So far as
So labor is concerned in fitting the seed bed,
cannot say that there is very much difI cannot say that there is very much back
ference. This season I have gone back

 intake flues are located on the outside or the inside of the barn or in the wall itself, so long as the aperture into the sta-
ble is a sufficient amount higher than that on the outside of the stable to pre-
vent the warmer air of the stable from passing down through it. In some cases
where double windows are used in a basement stable the intake fues are made in
the casing between the windows, and
flues of this kind seem to answer every
purpose. It is better, however, to have
the intake flues on two or more sides of the intake flues on two or more sides of
the stable, in order that those on the side
from which a strong wind is blowing may from which a strong wind is blowing may tial if they are properily constructed. This
would be less essential if the intake flues would be less essential if the intake flues
extended nearly to the ground on the out-
$\qquad$
$\qquad$ this latter arrangement would be quite as takes should have an aggregate capacity equaling the capacity of the outtake flue, and the proper capacity of the outtake
flue will depend upon its height as well as upon the number and kind of an mals kept in the stable. Prof. King laid down
the rule that where the outtake flue has a height of 30 feet, the aggregate capa-
city of outtake and intake flues should provide not less than 30 sq. Inches per
head for horses and cattle. Each 10 feet more or less in height, within reasonable
limits, is estimated to make a difference of six square inches in needed capacity
per head. Supposing the outtake flues to be 40 feet high, to measure up to Prof. section capacity would be required for
each animal, or a total cross section area of 576 square inches for the 25 animals
o be kept in this stable. Supposing the are square, they would have a total cross section area of 324 square inches, or a
little less than two-thirds the ideal for
perfect ventilation as described by prof King. There is no doubt, however, that with ventilating flues of this capacity a
stable would be ventilated much better than would be possible by means of any

## the stable. In case the two flues already

 added later $\qquad$ While the matter is fresh in the minis f all, I shall be grateful for the experi-nces of others, who have actually used Berdeaux mixsture on large areas of pota-
Boes, regarding the easiest way of having handy in the freld and of getting the Bor-
deaux into the 50 -gallon horse sprayer Where one is spraying 12 to 15 acres a
day the having the spray handy in the field or of returning frequently to the
house for it, is quite a problem. Would
also like experiences relative to putting Bordeaux experiences relative to putting
into horse sprayer most easily hauled to field in tank.
The writer has found it most convenien
o prepare the Bordeaux from stock mixding water in the field to fill the sprayer. The stock mixture is made by dissolving the copper sulphate in water, making a saturated solution, which will be about three pounds of the copper sulphate to a the form of a thick paste. A cask of each ingredient is put upon a platform wagon together with several barrels of water

SOIL AND FERTILIZER QUESTIONS.
Composting Manure and Weeds. Manure drawn direct' from the barn and stuff to grow. Now, what I want to ence in the two kinds of manure as a fertilizer to balance the cost of labor to estroy the weeds? It is an evident fact
that something will have to be done to crop will grow in the weeds, as it has been demonstrated to me this summer.
certainly tried to make it plain in a former issue of the paper that I did no believe in composting manure. I certainly don't think it will pay any farmer to The manure would have to be very carefully and thoroughly composted in order to destroy the weed seed, and I don't believe they would all be destroyed anyway. Again I don't think that L. T. V. need trouble in getting rid of weeds on a farm You can destroy weeds just as well as you can grass. We plow down a meadow tion kill all of it, and so we can plow kill them all. There is no use in worrying about weeds; there is nothing about them to worry about. Of course, they are a keep cutting them up. We like to have clean fields of internage ern and sort of thing, but some weeds persist in
growing. However, good thorough cultivation and a good rotation of crops will, keep down ary no particular bother. Don't be afraid of weeds. Professor Beal used to tell us at the Agricultural College that
weeds sometimes were good things; if it weeds sometimes were good things; if it
wasn't for the weeds people would not cultivate as often as they ought to to get the best results. The weeds make them
do this or they would destroy the crops, and I think he was right. fast as it is made and spread it on the the manure with as little loss as possible As I explained before, sometimes it is ab-
solutely impossible to draw this manure out and spread it on the land. The land is so soft that you can't get onto it, or .
the snow is too deep, or something of that sort. Sometimes in the summer time the be spread on the ground, because the ground is
admissible and the manure can be drawn out and put in a large pile in some conjust as soon as the opportunity comes so that one can do so, spread it on the land and get it where you want it.
Will you please tell me through your paper what causes large stalks and not
so large ears accordingly and perhaps
within four feet will be a small stalk with a large ear. Is it something the soil is
lacking? Also, how would it be to plow ground and sow on phosphate in the fall
for oats the following spring? All living things, both plants and ani mals, vary. There are no two living things exactly alike. In reproduction of living
things, both plants and animals, there is none of the progeny exactly like the parlittle bit aifferent. In fact, all the chance ing is this great law of variation. Plants breeder is manifest in selecting variations hich are improvements on the parent

## ividuals.

Besides the ordinary variation which abrupt variations, which are called sports or mutants. Sometimes these mutants vidual and sometimes they are the re-
verse. Now it is up to the breeder to select when you have a mutant, which is original, that is superior to the original, to try and perpetuate it. This is more eas
ily done in plants than it is in animals. Now to get down to the question, why small ear and only a few feet from that another plant smaller has a larger ear, yond human knowledge. The probability is that it is not in the soil. The probability is that the soil was practically the same and contains the same plant food. peculiarities of the plant. Mr. Burbank I think would tell us that where some stalks of corn grew large with small ears
of this corn it had grown under certain
conditions which favored the growth o stalk rather than the growth of ears. Since then it perhaps has been grown under different conditions, conditions so much stalk, and this of ears and not this tendency, is this tropping out of istic. If you is this inherited character kind of stalks you might improve the va riety of corn for ensilage but you would not for yield of ears and the reverse if you select the other kind.

Applying Fertilizer in the Fall. I don't think it would pay to apply fer tilizer in the fall. Fertilizer is concen
trated soluble plant food and I wouldn' apply it until I was ready to sow the cro or nearly ready. It is all right to apply

## a week before

DRAINAGE PROBLEMS.
Tile Draining a Swamp.
As I intend to do some tile draining questions. In draining a swamp how close should the tile drain be laid to the
higher ground? Also are cement tile lasting? I have a cement tile machine and intend to make them myself. is four to
one about right? Any other suggestions
you can give me in making and laying you can give me in making and laying
them will be greatly appreciated.
Tuscola Co. Subscriber should lay out his under rain about three rods from outside of his wamp. This should catch water coming if a swamp be well drained the danger of damage to a crop is greater on the es down pell mell into the swamp. Genrally speaking, muck will absorb neary
ts bulk of water. Water will run through muck quickly. We think an underdrain laid out three feet deep around the swamp and one through the center would be sat
isfactory, if it contained from four to six acres; perhaps lateral drains for certain
ow places would be necessary. Subscriber has an experimental task four to one would generally do; however it is a cut and try task. Cement tile has
to be cured as well as made. His tile should be at least five inches, and six
inches would do better work. Muck land inches would do better work. Muck land make up the loss of proper
 ve acres of low land that has about quicksand or white sand. I was thinking
of laying two four-inch tile and want to know if that would drain it without fill-
ing up. Could you give me the average
cost of four-inch tile? Ottawa Co.
Tile laying in quicksand is the most difficult kind of under draining. Chose a dry time for the work. Water in sand is
the chief source of trouble. Undoubtedly there will be caving conditions, and tile
will have to be laid up grade. Have the county surveyor, or someone doing such ork, lay out the drain the proper grade aves in you will
 file for the outlet, running same into low distance in with four-inch tile each way
around. This, however, depends on the Torm of land to be drained. A drain through the center of a round piece, with
laterals, would not be as effective for the quicker if drained around.
Drain tile vary in price. Six-inch tile from 60 to 70 cents; four-inch from 30 t 40 cents a rod.

## -

 Ditcher. ut on farms they would do better get the cities would be a lot better off,"E. Culver, a farmer of Missouri, marked as he stood in a railway stat
in Chicago a few days ago, as he wat
ed a group of Italian immigrants ed a group of Italian immigrants. All one has to do is to use whatever land he can get. The thing to do is to build it up by, putting all the waste back on
the land." Then Mr. Culver told how he
has made a run-down farm of acres pay for itself in five years, besides supporting his family and adding imof the farm. "I have 14 pure-bred Jersey them all the grain and hay they will eat
and bed them in fresh straw every night All the feed is grown on the farm. chickens, eat ail the feed grown. I Iney
er put corn on a fiel but one year follow it with small grain. I bought.
Ind for $\$ 50$ an acre and fused $\$ 90$ an an acre for it."


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## Practical Science.

MANURES AND FERTILIZERS

## by floyd w. robison.

In discussing the various methods of utilization of waste products, we have
und utiration of waste products, we have
mentioned, somewhat briefly it is true, mentoned, somewhat briefly it is true,
the compost heap as one very desirable means of conserving the fertility on the farm. There are very few farmers who
have a sufficient realization of the merits of the compost heap. They have heard
it mentioned in farmers' institute lectures it mentioned in farmers' institute lectures
and have perhaps read some particulars relating to the compost heap but aside from market gardeners and more particu-
larly proprietors of greenhouses, there is larly proprietors of greenhouses, there is
not a very extensive acquaintance with not a very extensive acquaintance with
this method of handling the farm manures.
There are many decided advantages in the employment of the composting of manures and there are likewise many excel-
lent posstbilities connected with this manner of manure disposal
Certain Advantages of the Compost Heap. possibilities of the compost heap, perhaps from the writer's contact in boyhood days with a man who had made quite a suc-
cess in market gardening. We had been taught to believe that such stuff as weeds and other foul stuff on the farm were of
absolutely no consequence and were to absolutely no consequence and were to
be burned and destroyed as soon as pos be burned and destroyed as soon as pos-
sible. Our first lesson in the composting of manures came from this old market
gardener who had practiced for some time gardener who had practiced for some time
the working into the compost heap of all, or practically all, of the weeds and fou stuff grown upon his place
If the compost heap is properly prepared there need be no concern that the
mixing of weeds and grasses and other mixing of weeds and grasses and other
foul stuff will result in an increased weed production the following year, for the
disintegration of these organic products is disintegration of these organic products is
usually quite thoroughly accomplished in the well prepared compost heap.

Compost and the Sandy Solls. The compost heap is perhaps most ad vantageously related to a sandy soll. Most
farmers are familiar with the fact that it is difficult to secure an economic addition of fresh barnyard manure to certain types of sandy soll. The result of the addition of fresh manures to such sols
has been that the soils in question have a strong tendency to speedily burn out,
as it were, when fresh manures are used. as it were, when fresh manures are used.
On such soils the experiment of the use of the compost heap has been employed
with very decided success. Of course, with very decided success. Of course,
when the soil is very light and sandy there can be no great effect produced from the employment of fresh manures because they so speedily dry out that before decomposition can set in in the soil the manure has been dehydrated, or
prived of its water, and there remains in prived of in a state of quite perfect pre-
the servation, in which condition the manur can be of no service whatever to the soil.
Composted manure being so thoroughly disintegrated and much more thoroughly
decomposed becomes of very great importance in such a case.
How to Prepare the Compost Heap. To prepare the compost heap it is well to figure on some convenient spot and
turn the soil up for a depth of perhaps one-half foot, leaving a trench around the outside to prevent the accumulation of
water. Then spread over the surface soil thus thrown up a layer of three or four
inches of coarse manure or straw. This layer of coarse material is for the pur-
pose of absorbing any final seepage from the heap above shoula after the prepara cessive amount of rain arter the prepara
tion of the compost ehap. The barnyard tion of the compost ehap. The over the top
manure may then be spread over manure may then be spread over a stack of hay except that it should be quite firmly trodden down all over. It is well to then
throw a layer of soil of perhaps one inch in thickness over the top of this to be followed again by another layer of manure gently spread over the whole top of
the heap. This may go on then until the compost heap is of the desired size and then it shoula be rounded smoothly like a stack on the top. Cover over entirely with two or three inches of soil so that
the sealing of the manures, etc., inside the sealin
is perfect.
The change which takes place in the interior of the compost heap is of a chem-
mentation very quickly proceed, with the result that most of the organic matter present is reduced to a much more available condition and eventually the same becomes thoroughly rotted out. Of course, ettling of the accompanied by a gradua aken that no cracks in the surface of the soll thrown up over the outside appear. If cracks appear they should be flled with dirt to prevent loss of nitrogen during the process of fermentation.
Composting Manures Hastens Decompo-
By the composting of manures it is ound that the substance therein which altimately becomes converted into the umus in the soil seems to take up this hange ever so much more rapidly than the case when they are placed on the oil in their fresh condition. This, as we have stated before, is especially to be osired when the problem is the fertility the sandyantages is that the coarse one of cles which invariably find their way into the manure made of more use. There is a reduction in the bulk of the material making it ever so much easier to spread on the farm with the manure spreader than or dinary manure.
During the process of decomposition the organic nitrogen products become broken up and thereby these nitrogen constitu ents of the protein compounds are rendered more completely soluble.

Disposal of Weeds and Leaves.
One very decided advantage of the compost heap is the advantage which it offers for the utillzation of the weeds and foul grasses and other stuffs which accumu-
late in quantities on all farms. We think would be a decided advantage to get these products together in different parts of the field or in different fields, where compost be used in the preparation of a compost heap for that particular field. nn way an or the now are a source of annoyance on the arm can be worked into the compost and whereby, due to fermentation and decomposition processes going on,
their vitality is destroyed and they may thus return their basic fertility to the soil. Leaves, of which there is such an accumulation on most farms, may be employed in the compost heap to a decided advantage, and while it is the custom in most places to either allow these to be blown about by the winter winds or to either practice is too wasteful to think of its being followed out on any of ou well regulated farms. It seems to be rue, and we think that the prevention of he waste of farm manures and the utiliation of the waste products on the farm o, as it were, hand in hand with the most approved form of sanitation upon the farm and it is with both points in lew that we urge a better acquaintance theng far whe the compost heap. There is a certain mount or refuse on the rarm which we bility its ility of its employment in the compost cab and other diseases, such as the scab potatoes, etç., we do not feel sure bout their use in the compost heap. The radication of the diseases is, we think, of greater importance than is the utilization of the waste, and therefore in such cases we would suggest the careful gathering together of such material and burn-
The compost heap presents the follow ing points of vantage:

1. It is a desirable way to prepare 2 . ure for any soil
2. It is an excellent pan for reducing bulky, coarse manure. pan for reduci 4. Leaves and weeds may be utiized 5 . 5. It prevents waste of manures.
3. It is a vauable adjunct to farm santation.

## WANTED

At once, a few men wha are hustlers, for soliciting. No experience necessary instructive. In writing, healthful and and also. In writing give references and buggy of your own. Address Box J F., care Michigan Farmer, Detroit, Mich.

## Live Stock.

Differences of opinion prevail among market the lamb crop to insure the great est profit All flock owners are not situated alike in regard to the solution of this vital
problem. Some farmers engaged in sheep prowing are in position to withhold their crop until late and market during the early winter months, while others less the lambs both have their advantages and
$\qquad$ The flock owner who is in position to
hold his lamb crop until late in the fall or into early winter has the advantage of
disposing of a quantity of grain and roughage at a slight profit over its market value, and also the manure gained is
of great value in maintaining soil fertility vantage to the flock owner who is in poof consideration as it utilizes the flock to grain and roughage on the farm which ul timately results in
and encourage rapid bone and flesh for-
mation. Unless the pasture is unusually good the lamb crop will be apt to decline

We lost our seeding this year, and our
hay this year was so thin it would not pay to leave it another year. Is there
anything we could raise next year that anything we could raise next year that
would make fair feed for horses? C. J. S.
Kent Co. of oats rather thickly and then cuts them when they are in the milk and makes
them into hay like timothy or clover, them into hay like timothy or clover, he will have a good substitute for hay hay. If you will mix some Canada field
peas with the oats you will get a better quality of hay, and horses love it dearly, rou can also raise Hungarian grass or
millet, and if it is cut before the seed gets ripe when it ought to be, it makes
a splendid hay for horses. Soy beans and
$\qquad$

$\qquad$ Sows oats, or oats and peas, he is
to let them get too ripe and harvest them the seed and the straw is comparativel nutrime grain is in the milk before th
$\qquad$
$\qquad$
$\qquad$ and has good corn land, by sowing corn it thick enough so that it doesn't form the proper time and well cured it makes
good hay for horses in the winter time, might look wrong for one to cut down milk and make hay, and yet it would
make splendid hay if harvested at this
$\qquad$
$\qquad$

## feeding dry roughage

si
-
$\qquad$

a $\qquad$ 210-day cattle feeding demonstration, has
again proved the economic value of silage
in fattening beef cattle. H. P. Rusk,
professor in charge of the, experiment,
$\qquad$
P8:


 GREATEST AND BEST LIVE STOCK SHOW Nov. 29 to Dec. 6 UNION STOGK YARDS, CHICAGO
Many New Improvements, New Features, Thirty National Conventions, etc. DAILY SALES OF LIVE STOCK 50 Choice Galloways 50 High Clsas Angus 50 Selectel Shorthorns 50 Best Herefords TUESDAY,
Dec. 2nd, 1 p.m. For Catalog write R. W. BROWN. WEDNESDAY,
Dec. 3 rd, 1 p. m. For Catalog write chas. GRAY THURSDAY, Dec. 4th, 1 p.'m. ABRAM Catalog write ABRAM RENICK,
Unlon Stock Yards, Chleigo FRIDAY,
Dec. 5 th, 1 p. m. For Catalog write Carrolition, :=: Mo. Unlon Stock Yards, Chicago Unlon Stock Yards, Chlceigo KKANSAB CITY, MO A Season of Learning, Entertainment, Brilliant
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tarst and
other.


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Expert Stock Breeder's Secret Now Open to Every Farmer.
orran eery. part of the ountry, re: cal results obtained from feeding horses,
cattle, and other stock, on pure cane mocattle, and other stock, on pure cane mo-
lasses. The U. S. Government has known
of this method of feeding for some time, of this method of feeding for some time,
and in several branches of the service,
after careful watching of results, it has been proven that horses will fatten
quickly on this diet, grow a fine, glossy coat, and do mu
It is equally good for cows, and other fatten cattle so quickly, or keep them in a healthier, milk-producing condition Hogs and sheep fed by t
bring top market prices. The method of feeding is simple is necessary only to mix the molasses with water, in proper propo
sprinkle on the ordinary feed. this method of feeding without ris pure feeding molasses, carefully this purpose, is sold under the
Buckeye Feeding Molasses, by Edgar \& Son,
troit, Michigan.
They make a liberal offer to every reader of this paper that enables you to try
this new method of feeding without risking a cent. You should write this firm at


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Dairy man's Dairyman's
Pride - . A clean com fortabl
cow, housed in a san cow, housed in a san
itary barn. You'll be Harals


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## CONDUCTED BY COLON C. LILLIE.

GRAINS TO FEED TO SUPPLEMENT
GRAINS
SHORT PASTURE.
As the pasture is growing short now, I
would like to know what grains to give
my milch cows to get the most butter-
fat. As winter comes on I will give them
cornstalks for rough feed. Subscriser.
Van Buren Co.
Most any grain fits in nicely with short
pasture. I don't think there is anything
better than corn and oat chop, that is,
corn and oats mixed together and ground
into meal. If you haven't got these you
can buy them. They make an economical
feed in connection with pasture. On the
other hand, wheat bran or middlings are
good also.

You don't need food quite so rich in protein on pasture as you do on dry feed because the pasture grass is richer in meal, gluten feed and dried brewers grains-any of these products rich in pro-tein-are good to feed on pasture. They
are pretty concentrated, however, and are pretty concentrated, however, and
ought to be mixed with some other feed to reduce the cost. For instance, if you with corn meal and ground oats it makes
a splendid ration.
As winter comes on your cows ought to have something for roughage besides
cornstalks, not that cornstalks are not good, but there isn't variety enough. They ought to have corn sllage, a succulent
fcod in the ration to take the place of the succulent grass. They ought to have clover, or alfalfa hay, because these foods
are richer in protein than cornstalks. If, however, you haven't anything but the
cornstalks for roughage then, to get the cornstalks for roughage then, to get the
best results, you must feed a liberal grain ration rich in protein. Here is where oil
meal, cottonseed meal and gluten feed come in to balance up a ration If you
could mix cottonseed meal, or oil meal with wheat bran and a little ground oats
or corn the combination would make an excellent thing to balance up so deficien a ration in roughage as cornstalks.

## WHAT FEEDS TO BUY.

## Will you kindly advise in regard to feed

 of whole corn ensilage and oat and whea straw. The most of the clover hay willhave to be bought. I can buy feeds as follows: Corn meal, $\$ 27$ per ton; corn
and cob meal, $\$ 24$ per ton; bran, $\$ 24$ per
ton: middlings, $\$ 27$ per ton; patent dairy feed, $\$ 26$ distillers' $^{\text {dried }}$ grains. $\$ 32$ :
cottonseed meal, $\$ 32$; alfalfa hay, $\$ 32$; clover hay, $\$ 11$; cornstalks, 4@5c per bundle With clover hay at $\$ 11$ per ton, taking
into consideration the price of other feed, I think you can afford to buy enough clo-
ver hay so that you can feed your cows one feed a day in connection with your corn silage and your oat straw. My exery much good out of the wheat straw It makes good bedding and can be utilto pass it through the manger, but cows
that are fed for good production will not eat very much of it. Oat straw, however,
where the oats were cut before they get where the oats were cut before they get
dead ripe, will answer for one feed a day. eat up clean, clover hay once a day and good ration so far as the roughage is con-
cerned. It is somewhat deficient in protein and this should be kept in mind when Undon.
Undoubtedly for the prices named you can get a pound of digestible protein
cheaper in cottonseed meal than in any
other product, and I would suggest that you buy cottonseed meal, wheat bran, and corn meal as your grain ration. Feed the
cows two pounds a day of cottonseed course, the best way is to carefully infreshens until you get up to her limit grain does not bring an increased produc Not only that, but cut down the grain ration a little bit below her maximum o you will be wasting money. If you want
to feed by rule, if you can't do the feeding yourself, and try to get some rule and do it fairly satisfactory, the old Dan- every pound of buter-fat produced in a for ensilage, but you want the majority week is a very good one, especially for of glazed and starting to dent. The
Holstein cows. Or you can feed them a earliest of it is probably ripe enough so pound of grain for every four pound of that you could save seed, but the ma-well-bred dairy cows I doubt if you can whole plant contains the larg. Then the well-bred dairy cows I doubt if you can
use as much grain as this with the greatest profit.

CULL BEAN MEAL VS. COOKED BEANS FOR COWS

## Will you advise me through your val uable paper, if ground cull beans are good as cooked ones for milch cows?

 also would like to get advice about mak-ing a balanced ration for milch cows
have plenty of corn silage, (corn would have plenty of corn silage, (corn would
have husked two crates per 64 hill shock). have husked two crates per 64 hill shock),
some clover straw, clover hay, cornstaks,
cull beans culviseans and ground rye. Would it be
ado buy some other grain or feed
to make a good ration? Should the cows
be fed

If the cows will eat the bean meal it is just as good for them as the cooke beans. Cooking will not add any to the food value of beans. Cows don't have to have their grain cooked in order to dieat the beans better after they are cookerl. but my notion is that you have to educate the cows to eat cooked beans at
all. I never tried to feed any beans to cows, but I have fed some bean meal, and this, mixed with other grains, limited experience the cows. With this limited experience I should say that the
best way to feed cull beans to cows is to grind the beans and feed the same as any have educated the cows to eat the cooke beans that they would be more appetiz-
ing and they would eat more of them. I know this is so with hogs. eat raw bean meal, they winl almost starve first, but you cook these beans and
they eat them quite readily, but you don't have to cook them to get cows to them nor do you need to for sheep. They I should feed all the corn silage the cows will eat up clean night and morning, one feed of clover hay a day and one
feed of cornstalks, or straw, or bean pods. Then for a grain ration I would use cull
beans, a litt'e of the rye, and I would prefer some ground oats or corn meal this to give a little better variety and to
make it more appetizing. If I had plenty of cull beans I would make that one of the principal ingredients of the grain ration because they are cheaper than other
grains. To get a good grain ration mix oats and rye and corn together equal of the ground bean meal with this as you can get the cows to eat readily. I would like i

## WHAT KIND OF CORN FOR EN.

What kind of corn would your experithis latitude? Wishing bulk, a sufficient amount of grain, something that will ma-
ture sufficently, How about Red Cob
ensilage, Holden Mammoth, Yellow White

## lonia

I don't think that red cob ensilage corn corn that is grown too far south, is the igan. Where corn is so late that it does not properly mature, it does not contain
the food nutrients that it should. It is deficient in total dry matter. There is no silo if it doesn't contain the food. That is what we are after-the largest number
of pounds of dry matter per acre. You ginia or the Carolinas is grown in Vir the southern states, and bring it up in Michigan and plant it, and it usually is
just silking out before frost comes. This where it has all the time necessary and it doesn't hustle enough in Michigan to mature. You take this corn and gradu-
ally bring it north and it will adapt itself ally bring it north and it will adapt itself
to the climate and finally you can, by seto the climate and finally you can, by se-
lection, get this same corn so that it will lection, get this same corn so that it w
properly mature and ripen in Michigan.
On the other hand, if we get seed co
north of us for this chmate thickly and mas the quickly, but it doesn't grow large.
there are the two extremes, avoid b
them. I would say that the latest corn that will properly develop is the best kind
of ensilage corn for any given locality. It is not necessary for ensilage corn to ge is not necessary for ensilage corn to get
dead ripe. You don't want it dead ripe
of digestible nutrients, and that is what
you want. Therefore I would recommend that you get your seed corn south of you but do not go too far.
Now there is not so very much difference in the variety of corn. If you get
seed corn from extreme southern Michigan or northern Indiana or Ohio, or go as far south as southern Indiana or southern Ohio and get your seed corn for ensilage ence that this kind know from experiripen the first year of corn will rarely pays to crib. To be sure, many of these ears will get ripe but the majority of them soft corn. But it grows wonderfully large If you get your seed from Indiana in Ohio, and plant it next year and then select out the earliest ears, those that get ripe enough so that they will produce seed, use this next year and perhaps the following year, and so on until it gets too make another importation of seed it becomes a little bit dwarfed, so to speak, in its growth. One can then go two or three hundred miles south of him and get seed corn again. That, I believe, to be the best variety of corn for ensilage. That, I belfeve, will produce the largest amount Now again any good corn grown in Michigan, corn that has grown here for years and years, and ripened here, makes plandid ensilage corn. It makes ensilage ably get quite quality. You can't probwhat it lacks in quantity to the acre but quality and should say makes up in est, the antiest should say select the largthat you know of in your neighborhood and plant it for ensilage.
rule, plant their ensilage don't, as a enough to get the best results. Did thick ever stop to think that if a stalk of corn hasn't any ear on it or a very small ear stalk than there is in another stank where there has been a big ear developed. The nutriment of the plant goes into the ear. small ears develop you do not decrease the total of food nutrients. You are short of ears but you have got the food nutrients in the stalk, and by growing them thick in this way you can get more tons to the acre than you can where planted thin. At one time I advocated eight silage, but now my belief is that we had better plant twelve or fourteen quarts of seed corn to the acre. Sometimes in an extremely dry year this may be so thick that it will dwarf the corn, you can't get moisture enough, but this is exceptional.
Ordinarily it will grow tall and big and Ordinarily it will grow tall and big and
you will get more tons to the acre. You won't get so many ears but you will get the food nutrients in the stalk if you don't
This summer we had three cows at-

as Jones disease. It is a sort of dysen- sentery than I ever saw before. Nothing seems to check it, only temporarily. They so named because a veterinarian by the is something absolutely new, at least in ever, has found a means recently, howor innoculation against this, but the most the practice until my three cows died. cident? I can think of nothing else. No one knows any way of preventing it and until just recently no one knew anything like it before nor sincer had anything like it before nor since. None of the all. Of course, if we ever have another COST OF PRODUCING A QUART OF

## What is the cost of producing a quart

 $\begin{array}{ll}\text { Jackson Co, } & \text { C. R. }\end{array}$ will vary with different herds of cowsOne herd may produce milk on the aver- doesn't matter much where y i tie her.
age of two cents a quart and another one After she is once broken to her stall no might produce it for five or even six matter how you tie her or where you tie ents a quart. It is all a question of the her she will step up and lie on this bed, ow and the dairyman. The dairy au- otherwise she has got to lie across the horities of Ohio took considerable pains to look this matter up by getting an average as near as they could for the whole state, for all the cows, under all conditions, and it seemed to cost a little better than four cents a quart on an average to produce milk in Ohio This is simply the feed and care cost and does mot take

## THE MODEL COW STALL.

Have recently moved and constructed a
basement under barn and should very basement under barn and should very
much like to so arrange it that I could
keep from six to ten Jersey cows. I would prefer to tie animals if could be done in such a manner that they would not floor will be cement. Should there be width of stalls, height of manger from In building model stall how wide should from floor should we commence rack?

## Sanlae Co. J. R. Mck.

Briefly stated, the model cow stall condeep on the side towards the cow, and two feet wide. Then the farther side of


## With butter at the present high price every ounce of cream counts

Cream is more than ever a most valuable commodity these days, and it is doubly important that not a drop be wasted or lost.

If you are still using a "gravity" setting method you are losing a quarter of the butter-fat in the skim-milk while the gravity cream is not worth enywhere near as much as the better quality separator cream.

If you are using any other than a DE LAVAL separator the advantages of the DE LAVAL over other separators at all times are greatest at the season when milk is often cool and cows are old in lactation.

## A DE LAVAL

## Will Save Its Cost by Spring

Then why delay the purchase of this great money and labor saving machine. Put it in now and let it save its own cost during the winter. Even with only part of your cows in milk it will at least half do so and by next spring you will be just so much ahead. While if you wish you can buy a DE LAVAL machine on such liberal terms it will actually pay for itself.

Let us send you a DE LAVAL catalog-making all these facts plain. The new DE LAVAL handbook on Dairying goes with it.

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## Ellis Engines run on gasoline, kerosene or any fuel oil without extra equipment. On kerosene they give more power than other engine on gasoline. Do more work and save you soc on the



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Coat or Robe at a very reasonable price and we do it
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better still, send it along, we will treat you right.
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yourself to them. COUPON
HEREWITH. Clip it and ship it.
can't get the bedding to stay in there any
with it. fill it up. Then the cow has a the hay manger slant back over the cow is to cause her, when she is eating hay from the manger to back away from her bed and her droppings don't soil the up and lie on this bed which keeps her clean. You can tie the cow with a halter tie with a poorest cows. Feed is worth stapled into the side of the manger. It feed
where the consumer could get more fo ight cents per quart. Everybody is ex ecting high prices for butter and high prices for cheese this winter, and I think hat their expectations will be realize Dairymen are hedging. They are getting much, and more, to sell, than it is to eed.

The Michigan Farmer
The Lawrence Publishing Co. Editors and Proprietors.
 $M$ Mix Mryue




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 DETROIT, NOV. 8, 1913.

CURRENT COMMENT.

South American
ommunication from Live stock. $\begin{gathered}\text { pondent quoting from } \\ \text { recent utterances of Dr. }\end{gathered}$ A. D. Melvin, Chief of the Bureau of An-
imal Industry of the Department of Agriculture, affords some interesting side-
lights on the development of the live stock industry in that part of the world.
It will be vemembered by readers who have followed the editorial comments of
this paper, that Dr. Melvin has been on a tour of investigation in South America,
in which the live stock industry of South of special inquiry
One surprising bit of information geanments since his return to the United States is that cattle slaughtered for exentirely on alfalfa pastures. These pas-
tures support the cattle the year around cept in occasional times of drouth or in-
vasions of locusts. In this connection Dr. alfalfa is not being grown nearly as extensively as it could be, and that the ex-
tension of the area devoted to this forage plant will depend very largely upon upon these pastures. Because of recent is to convert a portion of the area now
devoted to grain into alfalfa pastures, since cattle raising is considered much
more certain and suitable than grain production when the prices for catt:e are re-
munerative. Regarding the prices re-
ceived for cattle Dr. Melvin stated that at the time of his visit, cattle dressing
820 pounds sold for $\$ 74.80$, gold. This
grade of beef he states to be of high quality, and is at the present time selling in
England at from eight to nine cents per
re stated to be of very much cattle
South American countries, the Brazilian dian origin. It would thus appear that tina is capable of considerable increase under favorable prices, although the
slaughtering of cattle is sufficient at present to prevent a rapid, increase in pro-
duction, being fully up to the limit of the available cattle. But from the fact that
alfalfa has been substituted for pastures in the greatest cattle raising slaughtering of the shat the under rigid inspection, as stated by Dr. Melvin, it will be necessary for the cattle follow up to date and improved methods in the production of beef in order to maintain the supremacy of the home market pointed out, the immediate future seems pointed out, the immediate future seems

## does not seem likely that the opening of our markets to South American beef will

 do more than check further advances in er. What the future holds. it is, of course impossible to tell, but it will certainly take some time to accumulate a world surplus of beef cattle through the growth of the industry in South America, and as country, statistics for recent years point to progress in the other direction. How to Help a thinking people generally Good Cause. agree regarding the things the betterment of society, but they often differ yery radically as to the best means un of morality is one of these "rocks"upon which the current of wholesome pulic opinion is too often split into small
divisions which work at cross Today the popular thing among a large class of speakers and writers on this and seminat:on of knowledge, both in the home and in the school, which will tend to en-
lighten the youth of the land on subjects and the future well being of the race, but in a manner directly opposed to the "old school" ideas. In this idea as usually advanced there is so much of sordid sugpelled by the idea. There is, however, a able to meet, which is so well defined in ernor Ferris, in which he calls the attention of Mich:gan people to "Pur-
ity Sunday," as designated by the International Purity Congress, that we take nor's proclamation follows:

## The Seventh International Purity Con- gress will convene in Minneapolis, Minn., November 7 to 12 1913. Sund

 November $₹$ to 12, 1913. Sunday, Novem-ber 9, has been designated "Purity Sun-
day," the purpose being to create and
erystallize intelligent sentiment against crystallize intelligent sentiment against
the greatest evils of our time, and to di-
rect this stirred conscience into safe and sane action for the annihi ation of com-
mercialized vice and the promotion of
social and personal morality. Every state in the Union is expending
Eve sums of money for the purpose of
casting for its imbeciles, epileptics lunacaring for its imbeciles, epileptics luna-
tics, paupers and eriminall. This is a
commendable characteristic. of modern civilization. In recent years-the pertinot give careful attention to the source
of these unfortunates?" Every child has cial and individual purity together with physical and mental vigor constitutes a
secure means of making this divine right possible. people of our great state must be
The pakened. They must come to an appreciation of the full meaning and im-
portance of a single standard of virtue, if
they are ever to banish white slavery and kindred crimes from society.
On Purity Sunday let all the clergymen of all of the churches appeal to all of the
people in behalf of that purity which
Christ taught. Emphasize the positive ide of personal righteousness. Much that is printed in books and proclaimed from
the platform, in relation to sex problems,
is true yet positively is true, yet positively pernicious. Knowl-virtue-it may make for vicious conduct.
Therefore, awaken and arouse a love for purity. It is the sunlight of righteous-
ness that the youth of our land must have if they are to grow into the fullness of
noble manhood and womanhood.
This is indeed common ground on which all should be able to agee and a common cause in which all should be able to work. as well as by word of mouth, that it pays
to live clean, wholesome, useful, noble lives from an immediate and practical standpoint, as reflected in the satisfaction
derived from living, as well as from the derived from living, as well as from t.
more spiritual or altruistic standpoint.

Agricultural Opportuni- day a successful professional man was heard to remark that when he was choosing a caprofession of agriculture than any other, ing by taking an agricultural course upon the prospect that his father would be In a position to provide him with a farm p!ans were changed, however, because of the fact that his father met with finanhim with the farm after his to provide education was completed, for which son he earned the money to take o supplementary college course, and prepared himhas been eminently successful, He had however, apparently never quite recoversary for him to that it seemed necesmeant a long uphill struggle to attain

arned by him.
Believing that not a few country young men, as well as young men who have not deen reated upon the farm, hold similar en to them along agricultural lines, we have planned to publish in the Michigan Farmer a series of articles relating to the success of young men who have chosen agricuiture as their calling, but who, like mentioned, had no prospect of securing farm in any other way than through close application and hard work on their part, but not more so, we believe, than above mentioned or a host of others of
which his case is typical. The thing which it is desired to impress upon the young men on the farms of Michigan by this
means, is the fact that there are oppor tunities just as attractive for the success along any other line, whether it buccess along any other line, whether
Having come to an appreciation of that pare any young man is far better prework than if a proper choice of his life ror in thinking that success in life depends upon the business or profession personal qualifications and characteristics which he either possesses or acquires.

Reference has frequently been made to the boys' corn clubs and the girls' canning clubs which have been so largely or-
ganized and successfully conducted in the southern states and which are becoming increasingly popular Michigan. ing Michigan.
work is apparently to be broad that the other lines. As an evidence of such a ization of boys' pig clubs in two or thre of the southern states. This is really an this work the Anmal Husbandry Division operating wepartment of Agriculture is cotion Office in the Bureau of Plant InThe aim of the organization is to not only encourage an increased production zation has been started, but to also encourage the keeping of better bred pigs than are being raised at present in these is a means to the end of reducing the high cost of living, which is everywhere There is no doubt that any educational movement which will direct the attention of farm boys and girls to the possibilities
of the industry with which they are so of the industry with which they are so
familiar, will prove beneficial. Competifamiliar, win prove benefcal. Competitive work along any line will also inspire young people with a desirable degree
zeal in their efforts. As has been pointed out, however, the factor of economic production should never be lost
sight of in this educational movement, and for best results, economy in producue in the score card by which the results secured by the youthful competitors are finally scored.

## TAKES THE PAPER FOR THE AD.

$\qquad$ men meets a farmer who admits he takes the paper not only for the reading matWe view that as a compliment. all constitute a trinity of interest in a farm paper, and the interest of one can-
not suffer without all suffering. We are proud of the fact that the Michigan Farmer attracts a high class of advertising patronage, and that these advertisers find it pro
paper.

## HAPPENINGS OF THE WEEK,

National.
Considerable interest is being aroused Senate and now before the House. which provides that all passenger boats be propassengers. The Dominion of Canada will those contained in the bill now before
the United States Congress. The owners protesting vigorously on the great lakes are protesting vigorously on the grounds that
the requirements of the bill are such as
would apply to ocean traffic where Would apply to ocean traffic where routes
are long and it is difficult to reach har-
bors in case of accident; but on the great
lakes this condition does not prevail, and akes this condition does not prevail, and
the boat owners believe they are warranted in opposing the measure. They
feel that it is particularly restrictive with
regard to the excursion traftie ervice. to the excursion traffic and ferry
The United States Ged United States Good Road Associa-
inl hold a convention and exposition St. Louis, Mo., November 10-15.
The income tax, which constitutes one The income tax, which constitutes one of the unusual methods of raising money
instituted by the American government,
became effective last Saturday, and it is expected that from this source millions of
dollars will be brought into dreasury will be brought into the public
The federal grand jury sitting in Toledo
returned indictments against 20 persons returned indictments against 20 persons
last Thursday afternoon; 12 were charged
with breaking into railroad cars, five with white slavery, one with embezzlement
two with bootlegging, and one with break-
ing into a postoffice. A shake-up has occurred in the post office at Detroit, and many of the old em-
ployes have been lowered in rank and
have had their salaries reduced As we go to press, the great political
fight in New York state is being settled hy the vow York The campers is being settled
by tas been a
bitter one, with the Tammany forces ar rayed on one side and a fusion ticket on
the other. Both sides predict success The failing of a brick warehouse at
Hartford, Conn., is believed to have killed seven persons, while four others, fatally njured, have been taken to hospitals.
The bui:ding toppled onto the roofs of
adjoining wooden tenement houses, and adjoining wooden tenement houses, and
the victims were in the latter buildings. A street car strike is on at Indianapo-
lis, the men walking out last Friday. On
Sunday when an move the cars by strike breakers, rioting
ensued, and many shots were fired by ensued, and many shots were fired by
Elections are polieemen. Elections are held Tuesday in the states
of New York, Maryland, Virginia, and in all municipalities of Ohio and Indiana. in
The circuit court of Wayne county will
begin its thirs week of work in deavor to select a jury for the an enAlderman Glinnan, of Detroit. The ef-
fort to secure jurymen was advanced Because of an apparent desire on the part of the strikers in the copper dis-
trict of upper Michigan to conduct the
strike peacefully, General strike peacefully, General Abbey and Gov.
Ferris are contemplating the withdrawal of state troops and leaving the responsi-
bility of preserving order in the hands of
local authorities. There was a large parade of strikers at Calumet, Sunday, but Chas. G. Gates, son of, the great finan-
cler, Jied at Cody, Wyoming, last week and was buried in New York, Sunday. ty will be investigated by the state department, charges having been filed to
the effect that the law is not being en-
forced by the sheriff and prosecutor. A preliminary conferencce of persons
interested in the production of alfalfa will be held at the Sherman House, Chicago. a permanent organization for a national Panama-Pacific Exposition at San Fran-
cisco in 1915. Complaints have been filed with the
governor of the state against Prosecutor Shepherd, of Wayne county, in which it
is asked that the later offial be re-
moved. In an unofficial statement the moved. In an unofficial statement, the
prosecutor declares that the complaints,
are the product of efforts on the in the of Alderman Glinnan, now on trial
 of the animals were rescued, the remain-
ing 27 being destroyed in the flame
The The Department of Agriculture has just factory results from the workings of the 28-hour law designed to prevent cruelty ous transportation companies having es-
tablished additional unloading and feeding stations. It is also stated that while the
federal meat inspection law has no aut federal meat inspection law has no au-
thority to prescribe how to slaughter an-
imals, the government co-operates with others working to prevent abuses. Stun-
ning before bleeding is especially recom-
mended, as stunning mended, as stunning causes concussion
of the brain and instant destruction of
consciousness. Stunning premer consciousness. Stunning previous to bleed of
ig meets the demands of humanitarian
sentiment and of hygieni
In In arranging of hygienic requirements.
the ake a valuation of the railroads of the country, the inter-
state commerce commission has divided
the country into five districts, each one
containing approximately 50,000 miles Foreign,
The administration remains silent on the Mexican situation, which is appar-
ently as muddled as it has been during the past many months. The election seems to have been a farce, at least no
tangible results have been reported. It It
is expected, however, that developments
of some of some definite nature will be forthcom-
ing in a week or so.
There will be an election soon for fill-
ing fivè seats in ing five will be an election soon for fill-
Commens. Owing to British House of
the strained relations between the different parties, and the small working margin of the liberals
the elections will be fought earnestly by
bothes. which eomptention for endurance flying the cup to Marcel G. Bindlejonc. a.
Frenchman. who flew from Paris to Warsaw by way of Berlin, a distance of 933 ,
miles in 13 hours. Three representatives of the Chinese government have arrived in this, country
for an i spection of United States mints.

# Magazine Section <br> The FARM BOY an $\partial$ GIRI SCIENTIFIC $a n \partial$ MECHANICAL 

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

ORTH AMERICA has several va-
rieties of the birch tree. These
trees are valuable for their beaumeties of the birch tree. These
trees are valuable for their beauliful, close-grained wood, which, being orite with furniture makers and cabinet workers. The one best known in the
northern part of the United States is Betula papyifers, sometimes called white birch but better known as the paper or canoe birch. There is. another variety which also claims the name of
birch, and the two are much alike.
birch, and the two are much alike.
The paper birch simetimes attains a
height of 70 feet. The bark is light in height of 70 feet. The bark is light in color, a silvery gray or white, curiously marked with spots and lines. This bark the tree's familiar name
The birch branches are very slender shadow," some writer has said. cast a to a point the leaves are notched. finely cut, and flutter in the faintest breeze About the tree there is a marked grace,
a sense of aloofness from the work-a-day a sense of aloofness from the work-a-day
world. To the poet Lowell this was timniity, for he said, "The birch, most shy and ladylike of trees.
Longfellow's "The Song of Hiawatha' has familiarized American school children with the tree. It is in that upper lake

## The Birch Tree.

By HOPE DARING.
e is seen at its best. To some of us it is associated with the restful summer
days when, with the birch tree overhead, and the blue of the lake stretching away to a misty horizon line before us, we have reamed our dreams. Longfellow says "From the overhanging branches, From the overnanging branches, Soft the Spirit of Sleep descended. tho us the gift
It than sleep. rnas to the birch tree that Hiawatha uilling of hien he whit abor in Ojibway or his canoe which was, in the was:
"Give me of your bark, O Birch-Tree frowing yellow bark, or birch
Gy the rushing river,

## all and stately in the valley

The young warrior had to repeat his $r$ quest, and he reinforced it by the Leaves" (May), Lay aside your white-skin wrap
For the summer time is coming For the summer time is coming,
And the sun is warm in heaven,


Near the Water's Edge on Beaver Island
two wolves were slinking away through
the forest, already gone too far for an arrow to reach them, and off with them they had carried the meat roasting over
the coals. Nanahboozhoo trembled with anger. "It
is all your fault, you crying birch trees!" is all your fault, you crying birch trees.
and with a stout stick he beat the trees and with a stout sticb he beat scarred. Until this day the bark is marked from the beating given. The moral? if the Ofibway mother drew one, it was doubtless that the determination to have one's own way often brings pain and trouble. Today, ate one
dreams under the birches, the flutteting


Splendid Specimens of the White Birch leaves whisper the message that pain and suffering may "work their perfect work and add to a life's grace and beauty. nd He was well content. Out of the woods my Master can
Content with death and shame."

LATINUM is a new metal compared
with gold and silver, both of which
nave have come down to us from re-
antiquity. Savage tribes, even, are mote antiquity. Savage tribes, even, ar found possessing Platinum, being much rarer and more difficult to separate from impurities, has not been known or used to any recent times. 1735 a Spaniard named In the year 1735 a Spaniard named La
Torre, a member of a French scientific expedition, reported its discovery in Peru. It was not considered of any particular
value, however, until about the year 1820, value, however, until about the year 1820,
when it was found in the gold washings when it was found in the gold washings
of the mines in the Ural mountains. The of the mines in the Ural mountains. The
Russian government, recognizing its qualRussian government, recognizing its qual-
ities, coined three-ruble pieces of the ities, coined three-ruble pieces of eye
metal, which immediately opened the eyes metal, which immediately opened of it is interesting to note that the metal used interesting
of the coins. the Spanish word "plata," meaning silver. Thus the name by which we know it today has been handed down from the original discoverer., Peruvians called it
""latina del pinton," while the Malays of "platina del pinton," while the Malays of Borneo have a name for it which, ranslated into English, means literally "frog
gola." The significance of this name is not obvious. An Englishman tried to

## The Story of Platinum.

 By CHARLES H. CHESLEYng "guest of many," indicating its char acteristic of being found in company with
other metals, such as gold, iridium, os nium, ruthenium, rhodium, paladium etc. This name, however, did not super ornia and Australia call it "white cold" rnia and Australia call it "white gold.
Less than $5,000,000$ ounces of pure plat num have been mined since its discovery while more than 100 times as much gold has come to fight in the same time. Of found in the districts of Nizhne-Tagilsk and Goroblagodatsk in the Ural mountains of Russia. South America has produced perhaps 250,000 ounces, while smaller quantities have been found in Australia, Borneo and Canada. Our own country
at the present time produces perhaps 400 ounces yearly, and this is obtained as a by-product of the gold washings of California, Nevada and Colorado
Platinum usually occurs in small flakes or nuggets in sandy drift and along river bottoms, and is always obtained by the placer miner. In Russia the land of pro-
farmed out to peasants who arn allowed to mine a stated amount per year. Much the crude platinum. The best quality, as comes from the pans of the placer miner, is 75 to 85 per cent pure. This cruce to separate it from the impurities, after which it is melted in a furnace capable 600 degrees, Fahrenheit. After melting, $t$ is poured into ingots, which are subected to great pressure, while still at white heat, to solidify the particles. It is then rolled into plate or drawn into wire The character of platinum is such that n several particulars it stands in a class by itself as compared with other metals. It has a greater specific gravity than any
ther known substance, excepting iridium ther known substance, excepting iridium and osmium, its two native brothers; its melting point is so high that most metals volatilize at a point where it starts melt; its co-efficient of expansion is re-
markably low; no acid but aqua regia can markably low; no acid but aqua regia can
sive action of oxygen and other gases; it
is untarnishable; combined with iridium, is untarnishable; combined with iridium,
its hardness is almost absolute, and it almost completely defies the elements. An y for taking a brilliant finish make it Pure platinum is too soft for uses, but, properly alloyed, it becomes which is always found with p:atinum, is much natul metal for this purpose. Though the only appropriate alloy. The addition harder than 14 -arat makes a metal cent makes a subject that will practically forever. Iridio-platinum is the alis worth for jewelry, and at present prices This is about eight lime $\$ 50$ per ouncec. same metal ef the additional uses for it have been discovered the price has steadily advanced, and, ue will increase with each year. It is only just beginning to be recognized as a medium for the maker of art jewelry to exbress his ideas. Of late, however, it is pose. Certain it is that an for this purof iridio-platinum is as nearly indestructible as anything made of metal can be. The cost of a plece of jewelry made of platinum will be considerably more than
or one made of gold, not only because of metals, pennyweight for pennyweight, is Roger winced. These questions betray- glory of early morning, he opened his
the higher price of the metal but be- in the ratio of about one to four, the val- ed the cold-blooded financier, the Philis- arms and expanded his chest that he cause of the increased cost of working it. For obvious reasons it is much hardto work than gold or silver. Platinum is worth at the present time more than four times as much as gold. It is also more than twice the weight of 14carat gold, so that a jewel of platinum weighs half as much again as one the same size made of the yellow metal. This
feature also adds to the value of the feature also adds to the value of the unchangeable through the ages of the

## Unto Thyself Be True

By CHARLOTTE BIRD.

ROGER PERRY cast a curious glanee over the crowa. His arnste n-
stinct had led him to this vilage $\cdot=5=-m$ $\mathrm{E}=\mathrm{m}=\mathbf{m}$ tic face and eloquent gestures.
tie The visiting artist quately drew a pen-
cil and notehook from his pocket and set cil and notebook from his pocket and set
to work. A quick, clever stroke here, a teling one there, and the details of the
scene hat been transerred to the scene had been transferred to the page
before him. So absorbed was he that he he dia not notice the attention which his rare employment was attracting. Then a jovial bass voice over his shoulder re-
marked: "He has got Sile all right, ha! ha! ha!" by gosh!", exclaimed another,
". Wrell, besing forward. "Wouldn't that git
pret pressing forward. "Wouldn't that
yout" and he, too, laughed aloud.
oute The thickening crowd around Roger de-
tracted attention from even the shouting tracted aetentiorly his privacy was at an
auctioneer; clearl end. Besides, this publicity was not to
his liking; the unfattering liberty which he had taken, might be resented. He closed the notebook and put his sketching outtit back into his pocket. His interrup-
tion, though, would make no vital difference, because he had his salient points
anteady and the rest he could safely trust already and the rest he could sately trust
to his memory. He turned and his clear, honest gray eyes looked into those about lim-laughing eyes, awed a little in the presence of such
mere human being.
As the embarrassed Roger withdrew, he heard some one inquire: "Who is the gay? Where does he hail from?"
"He's Lucy Butter's fellow from down east somewhere," came the answer as reailly as
some book.
"Ah, that is the lay of the land! Some swell, eh?"
cThats about the size of it it, I guess."
atter this the most enotistic curiosity could not have tempted Roger to remain. courd not aaveom sketch in his pocket,
He had a goo
though. and he was thankul. Yet Roger was in no hurry to develop
his sketch. Since the fallure of his picture in New York a month before a mental and spiritual paralysis had held him
down by its dead weight and every imp pulse of creation came to his brain stilu-
born. He that almost a year lovborn. He had spent almost a yerr ways that it must convey to others the
beauty so clear to his own soul. Yet the picture had failed. Then for him also,
somenow it had beome chap and shal-
somehe low-the grave of his highest hopes. On
$a$ less scale this had been his experience with former pictures. Perhaps it would
always be so; perhaps his coy muse did always be so, perhaps his coy muse dia
not intend that he should ever wear the
laurel Ten whole years out of his best laurel. Ten whole vears ice to this vain
manhhod had been sacrifice
pursuit. The thought sickened him, gave pursuit. The though sickened him an impulse to break something. With a profound self-pity he reviewed
these years of sacricices and privations. This result after the glorious vision of
suceess with which he had started-this suceess with which he had started e mere
tantaizing, madening pursuto of a
clusive shatow! As reasonably seek the fabled pot of gola at the foot of the rainAs a plain business man, by now he ne
might might have had a fat income, with a
beautiful home and an automobile, other men less gifted and ambitious had all these things and more, and were har-
assed by no vain ideals. "Yes, better a assea
prosperous go grocer than an unsuccessful
at artist", he decilied with conviction "I
have won Lucy from her other suitors have won Lucy from her other sulto
and now, by Jove, Yil support her." This reflection brought Roger to Luec's home He turned up the clean cement
walk which, straight as an arrow's filght,
cut the velvet lawn in two. His fastidious eye took in the conspicuous tower at This, with the many useless gables betrayed the vulgar aim to lead the fashion
rather than interpret lines of beauty. All was staringly new and orderly and commonplace; no vines, no trees, no mossgrown shingles. Mr. Butler had money and he was Lucy's father, but these did
not lift his architectural taste above criticism. Roger wondered why money and artistic taste we
the same person.
It was a prematurely warm day in April, dreamy, hazy and with vague intimations of an impending thunder storm.
In the porch parlor Roger's pleased eyes In the porch parlor Roger's pleased eyes their eyes met in a smiling, trustful glance. She waved him to a big arm chair near the stand which held the magazines and
"Never mind, this will do," and Roger sank down on the edge of the porch fac-
ing lucy. The faint pink mounted to her cheeks. rather solicitously.
"Very nice. And I got a good \$ketch. Do you know this fellow?" Thus speaking, Roger produced his notebook and tossed it into her lap.
'You have got Silas Graham she laughed. ven to the wrinkles where the finish, band puckers in the crown of his hat. And you have caught the spirit of the
scene." She gazed at him in admiring silence while he indifferently flicked his shoe with a twig he had picked up. ship the artist's betrothed leafed through he book and looked at the other sketches. Meanwhile, he sat absently noting the
counding chin, the shell-like ear and the strongly marked nose and approving of the peculiar blue of her dimity frock against her clear pink and white skin. "It is wonderful, such a gift," and her soft brown eyes were lifted to the level of his face. "It has something holy." catingly. With Lucy he never shared hi discouragements. Presently he said: "Lucy, dear, I am going to speak to your ather this evening.
She visibly started and the pink of her be as well," she spoke in a low voice. "But father is a plain business man, you know; he understands very little of art."
"Perhaps I can lead him to understand better," at which suggestion from her lover the girl's eyes took on a lovely
sheen. That evening, accordingly, the trim,
alert young artist tremblingly but unflinchingly followed the neat, smooth-fac-
ed, prosperous-looking middle-aged business man to the porch. He noted that
Mr. Butler's clothes were of the same Mr. Butler's clothes were of the same
shade of gray as his whitening hair. He could not look at Lucy's father just now direct question.
Mr. Butler sank into an easy chair; he
looked flushed and worried. His fluency with a vital question might argue shallowness of affection, a deficient estimate of life's deeper meanings. "Ahem!" and the
father used an impressively long time in drawing out his snowy handkerchief and wiping the moisture from his brow "You you have talked with my daughter?"
"Yes, sir; we are both of mind."
"Just so. Ahem! What, may I ask, ave you to-to offer my daughter as your wife? Can you support her-give er a good home?"
n the ratio of about one to four, the valnearer one to six.
nearer one to six. arose in his heart. "I hope-I expect-to give her one of the
time," he stammered.
"Ah, in time! Now, Mr. Perry, you must see for yourself that that is not very
definite," and Mr. Butler's white stubby definite," and Mr. Butler's white, stubby fingers drummed the arms of his chair. wife now?"
Again Roger blushed. "My material means, Mr. Butler, I confess, are mainly
prospective. But I have a reasonable hope that-'
"That is, your assets hardly justify you at present in assuming the responsibility
of married life. Your business, Mr. Pery, I understand, is to paint pictures. Do you expect by that
gain a competency?,'
The sensitive young man's ears caught Mr. Butler's disapproval. He saw in the man before him one whose only gauge of success was the amount of visible hoard one had collected. "I may never win
what one would call riches," he honestly admitted, "But in time comfort will come. Success, Mr. Butler, is no affair of mere dollars and cents." In the younger man's tone also was something which the less acute ears of his hearer could afford to ignore.
"Mone
"Money is the visible sign of inner qual-
ities," emphasized Mr. Butler aloud. ities," emphasized Mr. Butler aloud.
"Why don't you adopt some business by which you may be sure of a compensation which you may be sure of a compensation father's question was definite and clearcut, like that of a man who carefully steers accordingly.

## "Why not?" the discouraged Roger si-

 lently pondered. "God knows, I am heartily sick of this pinching poverty and thismocking chase after a will of the wisp." Mr. Butler resumed: "If you and Lucy are bound to have each other, I might business. I like you-personally. I have no son of my own and, if you are faithshould some day be able to step into my shoes. You and Lucy could prosper then. Now this painting business - I frankly own, I do not like it. Pictures are very nice and all that-in their places, But they can never take the place of bread. I am a plain, practical man myself and I prefer a son-in-law capable of doing a

$$
\begin{aligned}
& \text { Roger was thinking } \\
& \text { Rork }
\end{aligned}
$$

Roger was thinking intensely. Here was an escape from his difficulties. "Mr. Butler," he answered presently, "I'll-F'l
take you up on your proposition." No, his grudging muse should not hinder. "I feel the need of some remunerative em-ployment-on Lucy's account, especially I need a home,'

## Now I hear the voic

The two parted with mutual good will Going into business, Roger threw aside his sketch of the horse sale, soon to be forgotten except by those who recalled his extraordinary cleverness.
Time passed. Each moment in the procession of official hours found Roger at his desk, quick, cheerful and eager to conquer the difficulties of his new work. With pleasure Mr. Butler silently noted the young man's faithfulness and spared him-
self no pains in teaching. Roger was certainly succeeding.
Presently, if Roger found his duties bit prosy, he hinted no complaint and the time passed with surprising rapidity. And he was relieved of all money anxieties. In the evening he was always at the Butler
home, frequently in time for dinner. Lucy appeared radiantly happy. Roger was gay and, naturally, their mood was re-
flected upon the spirits of the sobered parents. The happy family spent many self as already established in the household. He was suffused with the atmosphere of Mr. Butler's fatherly pride and
the love of the domestic Mrs. Butler, content to take her opinions secondhand By the end of one blissful month Roger began to find the rigid bank routine with figures disturbing, though, was the stirring of life where he had imagined all dead or at least quiescent to the point of easy mastery. But he would not be buffeted by every whim; there could be no turning back now. Then was not Lucy worth any sacrifice?
Late May found the trees in their new Each day, as Roger and exhilarating
arms and expanded his chest that he might more deeply inhale all this ris beauty. He longed for an enlarged capacity to take beauty in. Then, when he
must shut himself inside the bank and must shut himself inside the bank and,
instead of dreaming of bird songs, green instead of dreaming of bird songs, green
grass, blue sky, grind away at dry acgrass, blue sky, grind away at dry ac-
counts-then for him life paused and counts-then for him life paused and self once more free to wander himself once more free to wander in God's his intervals of freedom was wasted, thrown away!
Still all this was rank sentiment; he mon sense life. He would yet strangle these visionary longings and come to something in the world. Thus he return-
So matters stood on that day when Roger was thrown from his bicycle and had his arm broken. The sympathetic Butlers at once invited him to their home, till he should recover. He steadfastly refused to make them so much trouble, though in a day or two his evening visits he resumed. In short, he hat found it
imperative to be alone that he might imperative to be alone that he might
dream, commune with his soul, mature dream, commune with his soul, mature
the persistent images which hovered in the persistent images which hovered in
his mind. So urgent had the creative impulse grown that more than creative impulse grown that more than once his
injury came to him in the nature of a injury came to him in the nature of a
masked blessing. He escaped to the masked blessing. He escaped to the
woods and spent blissful hours upon his woods and spent blissful hours upon his
back under the trees reveling in his complete surrender to the magic of nature. In the open country his soul expanded under the wide reach of unobstructed sky, till it came into vital touch with the Infinite. After such a day he returned to ble. Yet he was more tender than ever; his soul was warmed and thrilled with the love of the universal which attends every act of artistic creation. And Lucy was a part of the universal life.
Roger's impulse to paint had ripened into a passion. That his musings might through his sketch-book day he leafed his picture of the horse sale. With upon tic picture of the horse sale. With franbrushes, is palette and mahlstick and with all the old relish set to work. How lucky that it was his left arm which had been broken! Once again he could really live -till his healed arm should force him to resume his bread and butter struggle in Never before had Roger Perry painted with such facility as in this race with his healing arm. Every victory, wrung in his tedious struggle with technique, every fine suggestion from the work of the masters, favored him and the rapidity with which he matured his conceptions, made him anxious as to their artistic val-
ue. His rest from art ue. His rest from art work also had giv-
en him strength and freshness, All day en him strength and freshness. All day he worked and grudged the loss of a moperative did he hasten to Lucy, In unrestrained freedom his spirit soared in its own element. Lucy may have wondered at his buoyant air, for not even she shared his secret. In it her father would have discerned a deplorable weakness while Lucy would have discovered no new virtues. With a definite result a plenty of time would remain for announcements and applause.
length, Roger could no longer pretend inability to resume his bank duties,
Perhaps Mr. Butler already suspected him an unmanly indulgence of a physical ill. But every day the idea of returning to the bank grew more hateful. There
was some alleviation, though, for his was some alleviation, though, for his horse sale, now finished, had been sent more throw of the dice could do no harm. is commercial work. His returned to painting had only been whettedt five for his pictures now he really could not. So he would get up every morning and enfore the prostituting of his manhood to mere money-getting.
Thus daily at nine o'clock, when a minor two late he stepped into the scene the grasp of the tyrant idea with whose expression he had just before been struggling. This swam so insistently before hefore him. Thus hardly saw the papers Butler's him nor jmagined the older man's upon ing doubt.
With tim
With time, however, it sifted into Roger's self-centered mood, that Mr. Butler suddenly came to a head. Mr. Butler per (Continued on page 425).

## THE FIRST SNOWFLAKES

## By fannie hosner.

 The first flakes of November's snow Fell from a low gray sky.They slowly fell, as loath to leave Their cloudland home on high
The first white flakes, they ventured lown Like aviators bold.
The grass was green in sheltered nooks, The grass was green ind gold.
Adown beside the garden fenc Adown beside the garden fe And sheet wivered as it felt the snow Caress its petals blue.
Those fairy flakes; they kiss your cheek And leave a parting tear,
But seem to breathe, My child, be good," But seem to breathe, "My
Before they disappear.
The children clap their hands in glee. They love the fleecy snow. They wonder when the ice will hold
And when their sleds will go.
I view the crystal flakes of white It brings to me a vivid though How quickly months slip by.
It seems but yesterday I heard The first sweet robin sing. And found. lose by a woodland b
The first wild fower of spring.

But spring has passed, and summer, too And autumn's at its noon:
And yet it seems as though the snow And yet it seems as though

TRAPPING THE UNSUSPICIOUS MUSKRAT

BY GEO. J. THIESSEN.
The muskrat is trapped early in the season, as a rule, yet its fur is not prime first quality. And it is a fact that a large percentage of all the pelts are taken by beginners each year, simply because the animals are easy to trap.
If one win walk along the edges of a creek, river, or pond, in all probability he will see some large flat tracks in the mud and occasionally a mark which re-
beaver, otter, muskrat, etc., will dive for
deep water when caught; if the chain of the trap is so fixed that it will not only permit them to reach deep water but will guide them to it, the weight of the trap in the case of the smaller fur bearers, will drown them. Hence, the sliding-wire device is nothing more nor less than a wire or pole having one end staked on the bank and the other in deep water, so that the ring on the trap chain will slide freely upon it.
Find a muskrat slide. At the foot it place a trap in about three inches water. In case a sliding-wire device is not used, stake the set where it is deep. By deep, I mean at least a foot or twojust enough to drown the animal. This is one of the simplest methods of trap ping the muskrat and, by the way, one of the most successful also.
I prefer three inches of water to cover my traps, for in most cases the animals are caught by the hind legs when the water is of this depth. This reduces the chances of escrpe. If the water is to deep, build up with stones and mud until it is just right. Another simple set is made by placing traps at the entrances to dens or houses.
Early fall is the time when it is easiest to catch the muskrat. It is very busy at this time of the year, laying in food etc., for winter. During cold weather these fur bearers are extremely difficult to take, owing to the fact that they do not go about much. The musquash-the Indian name for muskrat-may be attracted by bait, such as apples, corn, carrots, beets, parsnips,
etc. In fact I consider parsnips best be etc. In fact I consider parsnips best be-
cause of the pungent odor which these cause of the pungent odor which these
vegetables have. They will draw the animals a long distance. A good method of taking them with bait is to place the decoy on a stick about ten inches above the water, where it is shallow. A trap place near by completes the set. Strange as it may seem, these small fur bearers are very curious regarding whit


A Bright City Lad and his Miniature Corn Field,

ster who has a natural liking for the soil and for growing things. The above pic-俍
ture tells the story of a six-year-old Baltimore lad, Leonard K. Hirshberg. Jr., by
name, whose desire for a corn field was not to be thwarted. Although every bit name, whose desire for a corn field was not to be thward K. AHirshberg. Jr., by
of yard space had been paved with cement, it was his own idea that a box bit of soil of
would suit his purpose and he accordingly procured a $2 \times 4$-ft. soap box in which
when properly filled with earth, he planted several hills of sugar corn. The plantwhen properly filled with earth, he planted several hills of sugar corn. The planting was done in May, and so careful andconstant were the attentions of this young
corn grower that fully developed ears were taken from his fie'd in September.
sembles a half of the lelter "S." Further paper and cloth. If a bit of it is placed search will reveal the fact that paths, near a trap, often several fur bearers are more commonly known as slices, are to be taken with this simple set.
found along the banks. If in a pond or Very often a pumpkin placed in shallake, mud houses can be discerned rising low water and surrounded by several dens can These are invariably signs of the pres- ing the muskrat, especially if the stakes ence of the muskrat. I have Small traps should be used for taking caught as many as three animals in these little animals. I prefer the No. 0 I would a pumpkin as a decoy. although many use a No. 1. The smaller taking the advise the amateur to try traps will not break a leg bone so easily as a larger one, and the fact of the mat- frequently have great success at it. Very ter is, the users of large traps are the found ones who usually find feet in their sets sets. And yet a few to be ideal for instead of pelts. There is a way, how- convince the beginner the he will do ever, to secure every muskrat caught, and better by placing all his traps under that is by using the sliding-wire device. water. This device is merely a method of fast- Commnn sense should ine used in choos the muskrat, but for aff other aquatic an- apples, etc. Do not select any vegetable imals. Water animals, such as the mink, that is handiest, for if you do the chance

# All Told 265 Thousand Women Wrote to Us The Last 6 Months 

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## It's Surprising-



Stock, Tools and Crops





When an animal is caught, remove its pelt just as soon as possible. Aside from
the fact that the skinning is easier, it pays in dollars and cents. Many furs, which otherwise would be prime, grade
as "trash"" because they have been left on the animal for days. The majority of
hair-slipped skins, in my opinion, are the hair-slipped skins, in my opinion, are the
result of this negligence. By "hair-slip-
ped," I mean those pelts from which the ped," I mean those pelts from which the
fur may be easily pulled out in bunches.
$\qquad$

in place. The tails of muskrats ar
value. Do not try to skin them.


His mother went on filling her cooky
pan for the oven. "If I hadn't a thing or Thanksgiving," said she, "I think I
would be pretty glad to have somebody decide that just one counter, if I happenDon's eyes began to shine. "You bet
would," he cried. "Why, ma! When we boys lost our train last Saturday and had
to go without supepr until nine o'clock I was most starved, and it felt-" he hesi-
tated, "well," he finished, "it didn't feel
good. After al!, everybody's just one, aren't they, ma?",
She agreed, with a smiling nod. "And
when that one happens to be you," she
said emphatically, "it makes quite a difsaid emphatically, "it makes quite a dif-
ference whether someone remembers or
forgets."
 He did love pumpkin pie and plum pud-
ding, and besides-"but," he argued, "we'd
she replied cheerily. "There'll be the turkey, son; and plenty of pota-
toes, and bread and butter. We wouldn't have quite so many goodies, but we are
not alone, you know-or old, or sick."
She turned to the sink and began to
wash her baking dishes, and Don crossed to the window and began drumming on
the glass.
"Do you think I ought to?" "It would be kind, dear," replied his membered how Mr. Lee had finished his "The boy who is kind." he had sald.


That birds are the farmer's friends has been proved beyond all question. That
the decrease in the numbers of some secies, and the practical extinction others, has been detrimental to the farm er's interest is also an established fact
Were all bird life to become extinct Were all bird life to become extinct, the armer would be swiftly and decisively
beaten in the battle for existence. The teeming insect life that is kept in check y birds would multiply a million fold and devastate the land. Birds are the natural and weeds are the natural enemies of man. It is probable that even hawks an eathered folk, do more good than harm, though it is not in their behalf that thi
Since birds are necessary to the succes and prosperity of the farmer woul seem but fair and just that he care for In winter, when the snow lies deep and the Frost King reigns supreme, it is of-
ten $d^{i}$ cult and sometimes impossible for birds to obtain the food necessary to sub-
sistence. A handful of grain, a few crumbs from the table, a few cracked
nuts, or a bone with meat on it, will cost but little and may save some bird from starving. The farmer who has the rare
privilege of feeding a flock of quails that privilege of feeding a flock of quails that
have been driven to the orchard or barn yard in search of food may engage in a
profitable investment, for the quail has prontable investment, for the quail has
ben... found one of the most beneficial of all our birds. The passing of a w pro-
hibiting forever the slaying of this useful and inoffensive btrd would be a step in
the right direction.
Although the majority of our birds go south in winter, a considerable number
remain. Barring the English sparrow, which is an old-world product and always er are: the blue jay, the nuthatch, downy woodpecker, the gold-fiinch, and the chickadee. All of these frequent the orchards and dooryards and may be eas
ily fed. Last winter the writer supply of cracked hickory nuts outside ledge. The first day, the sharp window pair of blue jays detected the nuts; that the birds came daily for their food And now that I have mentioned the blue jay, I cannot refrain from saying a
word in his defence. Many people regard him as a thief and a murderer, but whil he sometimes robs the nests of other birds, his depredations are not frequent dor wide spread, and the good that he
dore than balances his evil deeds In summer, when all our song birds are here, we could well dispense with the
blue jay. But when the migratory birds blue jay. But when the migratory birds
have flown he rises into prominence and His call sounds welcome now, and he lends life and color to the gray Novembe
landscape and the snowy wastes o

## ' If chickadees frequent your place in winter, which is more than likely they

 winter, which is more than likely. theywill appreciate a few crumbs or a bone hung from a near-by tree. The wood woods and builds a fire by which to eat
it, enjoys the society of the chickadees who are sure to be on hand to share the chickadee does not love him! Tiny though severest frosts of winter. He is the emhood. His familiar and characteristic call rings as merrily as though the June sun were shining. And, in his rarer moments,
the chickadee can sing-a lisping, tinkling, silvery song that is as sweet as it

Although our birds in winter are by $n$ musical as
would mis the birds of summer, yet we would no longer seem familiar
hardy feathered folk typify the eternity of snow. They break the mone ice and give vivacity and color to the winter the birds for utilitarian reasons if you will, though I like better the man who




AGENTS $\xrightarrow{\text { RRAND NEW }}$

 \%

DONT PAY TWO PRICES



WANTED Mon


 FOR SALE OR TRADE FOR FARM
 cares for the birds because he loves them
and feels akin to the wildness and free-

UNTO THYSELF BE TRUE.

$$
\text { (Continued from page } 422 \text { ). }
$$

emptorily summoned his protege into his frown accused: "Roger, you have made a mistake-a very serious mistake. young man, struggling to come down to earth. ters." The bank president had reined in his impatience a little too long not to be in danger of overdoing his rebuke. Roger stood silently fingering the pink
edges of a blank checque book which lay on the desk. With Lucy's father he must be respectful.
"The trouble is, Roger, that lately your head has seemed to be full of cobwebs,"
Mr. Butler sco:ded. "If you ever come to anything in the banking business,
must keep your mind on your work," Roger inwardly groaned and then re-
belled. What right had any man thus to belled. What right had any man thus to
shackle his mind! "Mr. Butler," he flamshackle his mind! "Mr. Butler," he flam-
ed out, "you demand the impossible. I cannot nail my mind down to such work.
I am bigger than such work-too much of a man. The work is not worth i the older man after him.
"No, sir!", thundered Roger, with all his newly found dignity up in arms. "Why, is not living. To me it is slow death; it is hell," and his fist came down upon the
desk with a force which made the checque book leap. "I love your daughter and, God knows what it costs me to give,
up. It is like pulling out my heartstrings," up. It is like pulling out my heartstrings,"
and the quick tears filled his eyes. "But this simply cannot go on; it stifles all the best that is in me."
The seasoned business man stared at the young visionary. He looked admir-
ingly at the slim, well-knit figure and the ingly at the slim, well-knit figure and the
face aglow with a lofty emotion which he could not sound. In spite of Roger's ab-
surdity Mr. Butler had never before been so impressed with his higher qualities.
Only the more deplorable was it that so much devotion should be wasted on such cropped out in the older man's tone.
"I cannot help it, Mr. Butler. I must do the work for which I was created. That, you see, is not the work of a bank.
I must go back to my. pictures, or I shall fail in everything. Failure in everything is the penalty of the one who disregards a high call." "Such fine talk is all foll de roll," spoke Mr . Butler with the assured authority of
riper years. Yet as his fat white hands smoothed his gray. hair behind his ears, thing about it which I do not understand.
Maybe there is." explain from now till the crack of doom and you would not understand," and the speaker's arms vehemently sawed the
air. "That is the queer thing about itthe not being able to make other people
understand, who have not themselves lived through the experience,
er appeared softened. "I confess, Roger our mind to it, you might yet become successful business man. But if that is
"Heaven preserve me!" Roger broke
out. "I sincerely regret my failure the trouble it has cost you. I shall quicky pack my few belongings and return to
New York. My. art work imperatively "Your art work!" Again Mr. Butler's the idea of an able-bodied man contentedly painting pictures and treating such mployment as serious work. How woud should this misguided enthusiast ever
have come to disturb the tranquility of a once happy home!
On his own side Roger carried away an undiminished contempt for the man who by holding the disk of a dollar before his
eye, could allow it to blot out all the glory of the shining sun.
"Lucy, you are a trump!", exclaimed the delighted lover after he had heard her answer. "After this you can go on believing in me?"
"Roger, dear,
"Roger, dear, I have always belleved that you could become a famous painter.
My disappointment came, when you gave My disappointment came, when you gave
up art to go into the bank." up art to go into the bank."
and father had agreed.
"Well, well; and you still expect me to succeed?"
"My opinion of you, dear, remains un changed. I still expeet you eminently "But if you have to wait-perh But if you
"I shall still have my Roger unspoiled. "Then, by Jove, I will succeed. culd only take you with me now! I nee the st
She repressed a sigh. "It will not be ong," she cheerfully declared. "You "You are my good oracle," and he ten erly kissed her. "Now I must run along. I'll be around again this after On the way to his rooms Roger stopped at the post office. He ran his eye hun
grily over the addresses of the three let ters in his hand. With a nervous trepi Jation he tore open the one from New York for he had never really ceased to of the great metropolis.
Ah, from Holgate, the picture dealer $t$ "Dawn" and a few minor pieces and had "Dawn" and a few minor pieces and had ye hurried over the page and then he
almost shouted. With such news he must almost shouted. With such news he mus cramped for a man with such a big and Lucy sat on the porch conferring and planning.
"Stay to luncheon," urged Lucy. "What Mr.
found the two still on the porch. With a cool nod the head of the house walked into the passage and hung his hat on the
tree. In mock solemnity the lovers folowed him into the dining-room and the family sat down at the board. Mrs. But serenity but a s'gn from Lucy kept her ilent. Presently, Lucy's cheerful voic
spoke: "Father, you are a Jear. So to "We news."
"Well""
well? interrogated Mr. Butler but thusiasm.

York. While we supposed that he was nursing a broken arm, he was painting
ike a hero at a picture whose inspira tion he got here in our own little Hill Again, at mentio
Mr. Butler froze.
The amused Lucy went on: 'Some time ago he sent his 'Village Horse Sale' to
New York and today he has news of its purchase. Some rich man, born and
reared in a village, saw it, took a fancy to it and bought it on the spot."
Silence on Mr. Butler's part. "The sale of this picture and the things said about it, attracted attention to his
Dawn' and now that also is sold and-for how much do you guess, father?", relenting.
utation for worldly insight, Lucy continued. "The two pictures have brought ou
modest artist the snug sum of-well, enough to keep him out of the poorhouse for awhile. And commissions are bound At last Mr. Butler spoke: "Roger, my to be a fair man-and I congratulate you it may be just as good. But-why; man bay enormous prices for-just pictures"By all means," agreed the complacent RUINATION. BY WALTER G. DOTY. Guess they ain't much use $o^{\prime}$ tryin
Might as well give un an' stop. An, the barley half a crop; An' the hay's a poor success Well, goou riddance to bad rubbage.
Might as well give up, I guess."

But they raised the price of barley
Till it went way out of sight.
Till it went way out of sigh
And potatoes. late and early.
Were about ten cents a bite
nd the hay! Why gold was cheane And the farmer bought a reaper,
And the old barn got some paint.

# IMPORTANT to Roofing Buyers <br> <div class="inline-tabular"><table id="tabular" data-type="subtable">
<tbody>
<tr style="border-top: none !important; border-bottom: none !important;">
<td style="text-align: center; border-left: none !important; border-right-style: solid !important; border-right-width: 1px !important; border-bottom: none !important; border-top: none !important; width: auto; vertical-align: middle; ">We here announce the greatest sale of every</td>
<td style="text-align: left; border-bottom: none !important; border-top: none !important; width: auto; vertical-align: middle; ">dealer or any manufacturer in the United States</td>
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 kind of Roofing we or any one ever presented.This lot consists of all kinds of metal roofings,
siding and ceiling in $V$. crimped, standing seam siding and ceiling in V. crimped, standing seam
and ornamental ceiling, both painted and gal-
anized covering, besides very large quantitie vanized covering, besides very large quantities
of Ready Asphalt Roofings, such as Rawhide.,
Ajax, Rubber Surfaced, Flint, Pebble or Marble Ajax, Rubber Surfaced, Flint, Pebble or Marble
coated -in thort, practically every known kind,
Every foot-every piece, of this roofing, either
Eteel, or the kind known as Ready Roofing, steel, or the kind known as Ready Roofing,
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Not a piece of it has ever been used-it's a new, fresh, perfect stock. Just name your
brand and we will quote you Freight Prepaid
Prices that will prove, the big savings you make. How These Prices Are Possible Don't think that just because our roofin prices are so far below any you ever heard of that there's something the matter with the roof-
ing. Don tlit any dealer tell youthat his roofing
is better grade or will wear longer or look
is with any other roofing offered you. Then try to
beat our prices-you can't. Wo challenge any

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Mrs. Wise: "Look here, Anty, I want to show you how easy it is to do my washing. I cut this piece of garden hose just the right length to reach from the faucet inside, to my tubs out here. See, it runs right out here. See, it runs right my tubs without any trouble. And best of all, my fire's out, the kitchen nice and cool and I'm washing with cool water because I use Fels-Naptha Soap. I'm nearly done nowand it's just a little after ten!"
Anty Drudge: "Yes, and I see you buy Fels-Naptha by the box, too-you're certainly a clever woman.
Fels-Naptha is more than a soap. It is an easy, coolwater, no hard-rubbing way to do all kinds of work. It dissolves dirt so that when you come to wash clothes you don't have to rub, rub, rub up and down on the washboard until your knuckles are sore and your clothes worn out. Just put the clothes to soak for 30 minutes in cool or lukewarm water with Fels-Naptha Soap and the hard part of your washing will be done for you.
Never boil clothes w a shed with FelsNaptha Soap. Just follow the directions on the red and green wrapper.
Better buy it by the carton or box.
Fels \& Co., Philadelphia.
HISNATPILA

Have You Found Your "Calling"?

H
UNAN nature is queer. looked at in any lisht And one of he the ous, when the aforesaid obvious is right in our very homes.
Sir Launfal set us the example. You remember how he looked all over, the world for the Holy Grail and came back
at last to find it right at his own gate. And since his day how many of us have gone everywhere seeking our calling, when the Master had already placed our work before us. The work he has for us is so ordinary that we can't quite make up our minds that it is really the thing for which we are called, and it is only
after many wanderings and bitter disapafter many wanderings and bitter disap-
pointments, that we come back home at last to take up with contentment what we
overlooked when we started out. Too overlooked when we started out. Too
many of us are like the young man who thought he was "called" to preach, but
found out later, as an anxious aunty had suggested, that "it was some other noise he heard," All too often we mistake the "noise" of ambition or a desire for the
limelight for a direct" call from the Almighty.
$I$ have in mind a woman physician whom I can not but feel has become con-
fused as regards her calling. She is married and has one little girl, but her duties
are not in her home. She is a member town and state, and is always in attendance at big meetings. She is a convincing
speaker, and her speeches on the duties speaker, and her speeches on the duties
of mothers and on child culture would bring tears to your eyes. You positively
feel abased when you think how far short of the ideal you measure. She is keenly interested in girls' protective leagues and
urges her audiences to clean up on dance halls, moving picture shows and similar resorts of vice. I have wept to think of the advantage her daughter had in being was before I met one of her neighbors.
Of course, so talented a creature could never be expected to spend her time
training her own child, so the child goes untrained. Half the time there is not she does while her mother is out, and
what she does is a caution. There is one to sew for her, no one to mend her clothes or to teach her to mend them
herself. She is a small bundle of untidiherself. She is a small bundle of untidi-
ness, pinned together with safety pins, ness, pinned together with safety pins,
except when some of the neighbors feel sorry for her and sew her up. Do you
agree with me that that mother has mistaken her vocation?
Another woman with two small sons is Another woman with two small sons is ings, bakes for all the sociables, enter-
tains the visiting clergymen and belongs to every woman's society in the parish.
She feels that she is "called" to do this work, that she is eminently fitted for it her home work goes undone. The house
is untidy and uninviting, except when a
are to be entertained. Her boys are neg-
lected while she studies the lesson to
dren have a lean and hungry look because she is so busy baking for the
church she seldom has time to get a church she seldom has time to get a
square meal for the family. Now church work is all right with limitations. But
the limit, as with every other outside the limit, as with every other outside
work, should be placed at that point where neglect of home work begins.
Another woman is called to write. The great public is just hanging on the words
which flow from her pen, and which flow from her pen, and her ideas are to overthrow the present social sys-
tem and bring about the reign of justice tem and bring about the reign of justice
and equality. It matters not that heartless editors can not see it that way and
manuscripts return with sickening suddenness. She writes on, while her house goes undusted, windows unwashed, stockings undarned, children untaught and hus-
bank unnoticed. Her calling is not for bank unnoticed. Her c
this, but for the world.


BY MARY CLAPK.
If the pumpkin is a good, ripe one, cut oven until thoroughly cooked. If not very ripe, it will be better to cut in small
pieces, and boil. Don't think it is done, several hours, being sure every bit of ly cold, then make your pies. If eggs are
scarce, use a tablespoonful of flour or
corn starch, instead, and if the milk is good and rich, the pies will be almost as
good. Green pumpkins make fine pies if cut into small, thin pieces, and made like Preserves.
Cut pumpkin into inch aquares, and to of granulated sugar and let stand over sugar and let stand over
morning stir carefully, and put on stove in large vessel. Cook slowly,
until pumpkin is clear, then add one pound of seedless raisins, and a sliced Sweet Pickles.
Peel and slice, then boil till tender, rain, prepare vinegar, sugar and spices, as for any other sweet pickles, and when then seal while hot.
Pumpkin Butter
Boil pumpkin thoroughly, all day, if
possible, then add sugar, spices and sor-
ghum to taste (the sorghum may be omitted), and cook slowly on bac Imitation Peach Butter.
Take equal quantities of boiled pump kin and stewed tomatoes; rub through colander, boil together an hour or more,
then season to taste with ground cinna-

mon and about three-fourths as much sugar as pumpkin and tomatoes com-
bined. Boil slowly, till thick and clear, this is fine.
Cut up as for cooking, then string on stout strings, and hang near cook stove till thoroughly dry.
Boil pumpkin down as dry as possible spread on plates and dry in oven until thoroughly dry. To use, pour boiling wat er on and let stand till soft. Then proceed as with fresh pumpkins.

Pumpkin Jelly.
Cook as for pie, season to taste, with salt, sugar and spices, spread on plates, and keep in warm place until almost dry, then put on bread-board and knead. crock, pounding it down with wooden potato masher Sprinkle sugar over top and keep in cool, dry place. For each pie use one heaping tablespoonful of the jelly, and proceed as with fresh pumpkin. Sprinkle sugar over space where the jelly was removed. This makes fine pies, but will not keep as well as the leather.

SOME NEEDS OF OUR RURAL SCHOOLS
by Kate baker knight. A community may be sadly in need of content in igncrance of the fact, but let it once awaken to its need and want the thing badly enough, and it usually gets
it. One thing the people of Michigan have needed long, and that is, improved conditions in the rural schools. The
schools belong to the people, and the people can have what they want. But the truth of the matter is, the majority of people know very little about their schools. They do not know what they do want or what they should want. This is not due to any natural incapacity on the part of the average citizen, but it is due, rather, to his indifference to the matter. What will solve the rural school problem is a community fully awake to the interests of the school. It is a condition that cannot be brought about in a daynow well under way. Many agencies are being brought to bear upon these conser-
vative centers, and some day we shall see the rural schools of southern Michigan the rural schools of southern Michigan
falling into line with the consolidated and falling into line with the consolidated and
the centralized schools of some of the counties of Ohio, Indiana and Illinois. Last summer the lecturer of our state
grange suggested that shortly before the annual scchool meeting the local granges give topics bearing on school problems a lace for discussion on their programs.
was an excellent idea and if carried ut might have done much to have awakthe standard in more than one district. he co-operation between grange is intended to be, and should be, a If it is not so it is failing to live up to its privilege. I know of a wide-awake grange three district schools, the grange drawing for its membership from these three discommunity sensitively awake to the interests of the school-the minor needs will have been cared for, but as we have
not reached that goal there are several things which we can do of a practical We need more enlightened and more efficient school boards, and we should have them. No man or woman has a moral right to accept a position on school board unless he is sufficiently infair tion. Perhaps among my readers are several who are members of school boaras. the meeting for school officers in your county last year arranged by State Superintendent of Public Instruction? The purpose of these annual county meetings, to pose of these annual county meetings, to
quote from the state superintendent, is
"to integrate rupal school administrative some practical use of it. Such teaching. intelligence and to enrich such intelligence by co-operation and interchange." As a
special inducement to the director to atend, he is allowed two dollars, if he cares present a bill for it.
Again, school officers, how many of you make your teacher walk from one board
member's home to another at the end of member's home to another to get her order signed so that she may draw the salary that she has earned? Why, I even heard a man ing another for a position on the board, wo members, and if he near the other would be very convenient for the teacher
to get her pay.
1 supose it would not be practical to suggest that members of the board visit certainly would be helpful to the teacher to know personally the officers of her district, so it might aid if the wives of the
members were to visit the school, meet members were to visit the school, meet
the teacher and invite her to their homes. $i$ think it is a mistake not to know the person who deals with our children, hence that has been sall to all patrons of the seh as to members of the poard If you scho the teacher to feel interested in your child, show her that you have enough inwhere he spends nearly half of his waking hours.
The bulk of the work of the board falls upon the director and he should be chosen ecause he is suited for the position, not the place. I believe that all directors hope to secure a good teacher, but unless
a man is willing to get up and hustle for one, the chances are he takes up with chools of Illinois, I have known of more than one board member going 40 miles to get on track of a good teacher-business men they were, to. The tradition of the istrict school is that the teacher seeks he school. Now why should our officers chance to apply? Why not stir around na firector say: "We didn't have much to choose from this year, as there were only three applications." That man is paying taxes every year for the supwhich turn out trained teachers. Many of them will come for $\$ 50$ a month to our worth $\$ 45$ a year more than an untrained teacher, then are our normals laboring in vain. Graduates can frequently be seured for that, and a good trained teacher one at $\$ 360$ is a criminal extravagance. If normal graduates are not to be se-
ured, we can at least insist that our teachers have some further preparation or teaching than a high school diploma The normals are open six weeks every ummer and our best rural teachers who are unable to attend college throughout a chool year, are taking advantage of these ummer sesslons. and in methol attest the value of such a course. When we get the right ki board it will demand a trained teacher in sympathy with farm interests, with some he children are to do later in life, and ne who will co-operate in the interests o the community. That sounds almost too wards which our leading educators are working. Why not show our appreciation of their efforts in our behalf by creating a greater demand for such teachers? Kalamazoo State Normal has a depart ment especially for the preparation students for rural work. It has taken training school, placed the brightest and most capable critic teacher to be secure teacher an opportunity to see real teach en done, as well as a to see real teach ractice work under an experienced leadr. Here, too, a course is required in the sentials of agriculture and also in do mestic economics, so that a teacher is prepared to lead the farmer's boy and girl to find an added interest in the things of the farm and in the work of the farm

That there is a demand for this line of study is shown by the fact that a text ok on "The Elements of Agriculture" was placed last year by the Superintendnt of Public Instruction on the list of eading-circle books to be read by every Michigan teacher during the year. This is a step in the right direction and all
up-to-date instructors should be making
will give to our boys and girls a greater for the pursuit of agriculture because they can see in it a scientific side, and realize that it may be made as respected a profession as any.
What is your teacher doing along this line, Mr. School Officer? You have a
right to know. Indeed, I'm inclined to think it is your duty to know. I have only one more plea to make, and that is for better conditions in and around our school buildings. If we cannot bring gained by uniting two or more adjoining districts and having a centralized school, then let us do something to improve the conditions in our separate districts. Why should not the country schoolhouse and grounds be as good as the best farm home methods homes, end upon the same means for warmth and comfort that they had 30 years ago We have relied too much upon books' as means of keeping the boy satisfied with the farm, not realizing the value of things in his education. With the character of est one of the possibilities of making country children better satisfied with Then why not bring some of the vine and bushes and blossoms that glorify our roadside to the school grounds and teach of nature? It will vitalize the work of the rural school and at the same time give the children finer ideals of life. Nothing ent trees, and yet think of magnifibareness of the school grounds in your ducational value of noble tre the why not imitate nature and plant a group ould be made in Day? What a change appearance appearance of the school grounds of and teachers would live up to their op portunity.
Country people can have better schools with attractive surroundings when the are willing to give more of their time money for them. There is no other way It is for the people to decide.

FASHIONS BY MAY MANJON.
Our large Fashion Book-containing 92 pages illustrating over 700 of the season's atest styles, and devoting several pages address on receipt of ten cents.


No 7864-Tuckea blouse, 34 to 42 bust. With long or elbow sleeves. long sleeves.
No. 7682 -Empire house gown, 34 to 42 ust. With three-piece skirt. perforated for walking length, with elbow or long
sleeves, chemisette that can be made low or high. with or without collar. 22 to 32
No. 7833 -Three-piece skirt. 22 to waist. With draped or plain front, with No. $7507-$ Four-piece skirt, 22 to 32
waist. With high or natural waist line. waist. With high or natural waist line.
The above patterns will be mailed to any address by the Fashion Department cents for each.


Do Your Own Butchering This Fall-It Will Pay
Good, pure, well-seasoned country sausage-city
people are just crazy to get more of it.
Instead of shipping all your hogs on the hoof, do your own butchering and get retail prices for the meat. Sausage is easy to make, and there is no dange ENTERPRISE Sausage Stuffer and Lard Press Cylinder Bored True
with the patented ororruated spout. Makeg sausage frat





THE ENTERPRISE MFG. CO. OF PA. Dept. 48, Phlladelpha, Pa.

Hay

> in


When Writing to Advertisers please mention the Michigan Farmer.

made by a thorough application of DRI-FCDT

Your shoes are water-tight at a fraction of the cost of rubbers. They look the same as before and wear better.

Apply two or three times a season. Good for black or tan shoes.
Get it at your shoe dealer's. If he hasn't it, send us his name and we'll supply you. 25 cents a can; in Canada 35 cents FITZ CHEMICAL CO.
763 Broad Street Phillipsburg, N. J.


## When it rains





## HIGHEST <br> PRICES <br> FOR <br> FURS

## Farm Commerce.

Advises Holding Beans For Better Prices.

L
ST year's beans started on a basis official gathering of a few farmers recent than the price for 1913 and many much as has been written here. There who held their beans sold for much less have been some things done which pre-
on the later market than they could have vented the apparent coming panic as the received earlier. Wet weather made a result of the speculative bear movement great deal of trouble for bean growers and which still needs the active co-operation ported soft and unmerchantable when porteding destination. Many bins of beans in farm granaries deteriorated and were million dollars to handle the bean crop, armost a total loss. "Burns bairns dread which is a considerable sum of money.
the fire" is a phychological business fact, The elevators and banks plus the farmers and breaking the market or starting a makes a strong combination but when the panic is, or comes from, a state of mind. support of the market is withdrawn by the If you were a market gambler and knew farmers by dumping beans on the market these conditions what could be a more in- when prices fall, it is apt to strain the
viting opportunity to sell or offer to sell elevators' credit and when he, too, un-
 about 20 cents under the then market. The way this is done is to quote beans
o the wholesale grocers at a lower price

> How To Organizing a Co-operative Creamery.
but natural that the grocery trade either First call a meeting of all the farmers which can be held by any one share-
gives orders for beans at those prices, or the locality and arrange to have a holder, keeping in mind that there must at least does not accept the offers made dairyman from the Department of Agri- be enough shares for general distribution beans and have paid their money to the general information on creamery organbean growers, This in trade parlance is ization.
"selling short." The elevator men are the Determine the number of cows within first to feel the depreciation of the beans a drom where the creamery is to be located. natural result is to drop the price to a From 400 to 600 cows, depending on local price, the grower thinks it well to sell or, for the creamery.
as the market words are, "gets foom un- A committee should be appointed to a der" a further fall in prices, and the pan- certain how many cows there are and at
ic originating in a cold blooded calcula- the same time have the farmers expres
tion of "reaping where he had not sown," themselves as to how many shares the has run its cycle and the loss falls large- will take at say $\$ 25$. This expression on
ly on the grower. If some "small fry" the part of the farmers puts no legal ob rogues were to take toll of the farmer's ligation upon them to take the shares but


There were thousands of bushels of fruit that went to waste in Michigan orgladly have paid a reasonable price for this fruit. The fruit was untouched beand a large per cent of the consumers will eat no fruit this winter because that same marketing system demands exorbitant prices. If the farmer and the consumer would dodge the system and become acquainted in a business way one would get paid for his work and the other would get what he wants and needs at a reasonable price. Exper
the plan of direct selling.
be saved the trouble of marketing those sufficient amount promised, say one-hal by bearing the price, selling short and are safe in going to the expense of form then asks the farmer to deliver his toll to

The facts as to the bean crop this y
are that the old crop was well cleaned up
and this year's beans go on a bare and
anxiously waiting market. The crop in ganization you are ready to issue stock to New York is light and also on the Pacific those who have, signed their names to the
Coast. This leaves the field to Michigan organization agreement and to sell to Coast. This leaves the field to Michigan organization agreement and the others.
with a crop not over large. In fact, the sth of the organization de
estimates since threshing began can be The strength estimates since threshing began can be pends on the number of farmers having
somewhat curtailed. The quality of the pent crop is excellent, an item that adds to shares, therefore, make it a point
palatability and consumption. The bean to sell to as many farmers as possible. growers seemed to fare well in the read- The selling of shares is often a difficult justment of the tariff since the rate was task but efforts spent along this line conreduced only from 45 cents per bushel to tribute greatly to the ultimate success of
20 cents, and "free beans" are only told the creamery. In selling shares take of to mislead and lower the price. either cash or a note from the purchaser In the dietary role the more especial thus relieving the organization of the
competitors of beans-potatoes and meats wurden of paying interest. Use the notes competitors of beans-potatoes and meats wurden of paying interest. Use the notes
-are high, in fact, much higher compar- as security to borrow a sum equal to the atively than the beans at $\$ 2.00$ to the combined amount of the notes and have farmer; which price under normal appli- the sum bear no more interest than the
cation of the law of supply and demand notes.
$\qquad$
$\qquad$ divi by-laws an article that makes the ter-fat delivered to the creamery by the
$\qquad$ ment in the selection of men who are the Choose a presid places the meetings in a fair and unbiased way, Select for a secretary and manager a man does not become confused or excited ove boara or directors who will take an inter-
as come before them. a suitable bond. This is not a matter to on as distrusting those officers, but as a measure that is used in the conduct of
all good organizations where a considerable quantity of money is handled. Let
good business judgment characterize all transactions, the election of officers, the contract for building, the placing of the
machinery and the management of affairs after operations have commenced.
Better Avoid the Professional Promoter Better Avoid the Professional Promoter.
These agencies and conditions are well understood when investigated and the farmers who contemplate starting a cooperative creamery have as examples hundreds of successful plants to patern after
in building up a successful creamery. badly started and poorly operated creameries that have failed and these serve to in starting the new organization. It is the rule, with but very few exceptions, professional creamery promoter instead a relying entirely on their own efforts or that of state dairy authorities, spend from
$\$ 1,000$ to $\$ 10,000$ more than what is necessary to start such a creamery and this is jury it does the dairy industry in that loon the such a promoted creamery fails it follows have well afforded who started it could money to send a representative to other shown that this information is seldom sought. To meet this condition many ment of their State Agricultural Colleges made provision for assisting in the organization of co-operative creameries and to further improve them after they are in operation. In many of these same states
there is a dairy commissioner with deputies who co-operate with the colleges in this work so that instead of the farmers themselves carrying on costly investigapared more accurate and valuable has prepared more accurate and valuable infor mation on this matter than the farmers These general stain,
ons fuggesery have been prepared partly for the ery have been prepared partly for the
purpose of co-operating with the states
that are giving assistance along this line, but mainly to supply information to those
who are unable to secure it elsewhere. It should be remembered that this information can be greatiy supplemented by a representative from the state or federal of the first meetings held for organizing the co-operative creamery. The apparsuch a creamery are too often slighted and an experienced man and one who is of the creamery can give valuable assistance. Those contemplating the organizanot hesitate to call for this assistance.
BELIEVES THE FREE TESTING OF
CREAM A GREAT THING FOR The Michigan Farmer has started good movement in their free testing o
cream, if my experience is like that o cream, if my experience is like that of
others. About August 1 , 1913, I felt that
I was not getting a square deal from the creamery to which I shipped my cream.
1 accordingly sent a sample of a shipment of cream to be tested. The report
on sample verified my suspicions. Their
test showed about five per cent more but-
ter-fat than the creamery test. After that I sent samp:es from every can
shipped and found that I was being de-
frauded out of from one and one-half to three per cent. The last shipment was six per cent below the test given me on
a subsequent shipment to a different con-
cern. My conclusion is that one creamery
company operating in this state has 50
cents to $\$ 1.00$ of my money for every can cents to $\$ 1.00$ of my money for every can
of cream shipped them and as I received
$\$ 90$ for my September cream, you can easily see $\$ 10$.
What this company has done to me they are doubtless deem as if something might
and it wauld seem
be done to correct such a gigantic fraud.

Crop and Market Notes.




















 will rule later. Oct. 25.-Some rain fell this week. Most of the fall-sown grain
is up and looking fine. Everyone is shuckis up and looking fine. Everyone is shuck-
ing corn, which is about half a crop.
Help scarce. Hogs are being shipped to market. Most of them are offered in goo.
condition. No loss is reported from dis-
ease so far. Hogs $7 @ 81 / 2 \mathrm{c}$; corn 92 c bu: ease so far. Hogs $7 @ 81 / 2 \mathrm{c} ;$ corn 92 c bu;
wheat $90 \mathrm{c} ;$ chickens $14 \mathrm{c} ;$ buter 28 c ; eggs
25 c . Plenty of chickens being sold; eggs scarce.
Madison co., Oct. 28 .- The cool damp
weather has delayed the corn husking and weather has delayed the corn husking and
also caused some damage as the crop was
somewhat unmatured when the heavy
frost occurred at start of cutting. The cloverseed crop is about all threshed and
of average quality and yield. The wheat
is going into winter quarters in fine con-
dition. dition. A large acreage was sown and it
looks. very promising, with fine growing
weather at present. Many public sales
wand
 6.50. Grain prices at present are: Cor
$65 \mathrm{c} ;$ wheat 86 c ; oats 40c; rye 65c; pota
toes $\$ 1 ;$ eggs 27 butcer butter 30 c . Poultry
especially turkeys, are not plentiful. especially turkeys. Indiana.
Shelby co., Oct. 31.-Weather is cool
Stand and damp. Corn cutting done and shred-
ders are hard at work. Wheat is green.
Pastures continue remarkably good. The Pastures continue remarkably good. The
roads are in fair condition. No cholera roads are in fair condition. No cholera
among hogs yet but it is neinhboring
counties and may be here soon. Cattle counties and may be here soon. Cattle
are searce. Rabbits are apparently more
plentiful than at this time last year. plentiful than at this time last year.
Some diphtheria in schools but not serRush Co., Oct. 31.-We had some pretty rough weather and snow this week Sev-
a great deal of cold drizzling rain. Sev-
eral buildings not completed and cement work unfinished. Many farmers are get-
ting light and power from adjacent trolley lines. Turkeys are somewhat scarce
and are selling for 17c. Other prlees:
Ducks 12c; geese 10c; hens 12e butter $26 \mathrm{c} ;$ eggs 27 c ; cattle $\$ 8.50$; hogs $\$ 8.25$;
sheep $\$ 4$. Clark co, Oct. 31.-The weather has weeks. Had some snow lately wath some
cold winds. Plowing about half done;
winter grain look real good. Hay selling winter grain look real good. Hay selling
at $\$ 13$ per ton; butter 30c; eggs 28c; hogs
10c dressed; chickens 9@12c. Farmers
( are shipping their own stock and are get-
ting very good prices. M Milch cows go
from $\$ 50 @ 80$ Horses. are also high and
range in price from $\$ 175 @ 300$ Missouri.
Vernon Co., Nov. 1.-Winter has set in
early; had two snow storms to date. We early; had two snow'storms to date. Whe
had snow before fros. Wheat is in fine
condition for winter. Corn, oats, wheat and rye are being shipped in here and are
selling as follows: Corn 80 c ; oats 48c;
wheat $\$ 1$; rye 85 c . Some sickness reported a mong stock owing to the mouldy fod-
der being fed. Not many siloes in this
county but last year's drouth has been a Nodaway co., Oct, 31.-Winter began
with a hard freeze, but better weather
now prevails. Markets remain unchanged during the past month.
very common here at present. Sales are
having a difficult time finding
haces to
work the coming year. Some wheat is
$\qquad$
$\qquad$ do in this section. Water is very low and
the roads are fine.
Kansas.
Cowley Co., Oct. 30.-Unusually co
weather has injured late prairie hay an weather has injured late prairie hay and
alfalfa. Few fields of kaffir matured and
feed will be scarce and of poor quality. Shipped in corn is selling at 85c; home-
grown 75 c . Wheat and rye pasture good. Many fields being pastured now.
Dickerson Co., Oct. 27 .-Fine rains and good growing weather prevailed the last
month. A slight snow storm and light
frosts did but little damage to vegetation. Alfalfa and late feed is being cut. Stock
is being pastured on early sown rye and
Wheat in fine wheat and stubblefields. Wheat in fine
condition; also fields of alfalla sown af-
ter the late rains. Milch cows selling at
$\$ 70$ a ter the Hugs $\$ 7.50$ per cwt. Horses are
$\$ 70 @ 80$. Her
cheap. Butter $30 \mathrm{c} ;$ eggs 25 c ; corn $80 \mathrm{c} ;$
hay $\$ 15 @ 20$ per ton. Potatoes and apples shipped at $\$ 1 @ 1.25$ per bu.
Finney Co., Oct. 29.-Have had several hard freezes this month. The first frost
fell the 10 th and the first freeze came the
night of the 17 th. Some of the farmers
are still sowing wheat, while some wheat fields are looking fine and green. Several be headed yet. Have had
this month.
Saunders Co., Nov. 1.- Corn husking is in full blast. The average yield. Will be
about 35 bu. The quality is good. Wheat
has never been in better condition. Pashas never been in better condition. Pas-
tures are good; stock is in good condiDodge co., Nov. 1.- The weather during
the first of the week was raw and cold the first of the week was raw and cold,
but it has changed to Indian summer during the last two days. Farmers are anxious to get the corn out in good sea-
son. Yield from 30 to 40 bu. Prices are: Wheat 73 c ; corn 64 c ; oats 34 c ; hogs $\$ 6.75$;
butter-fat, delivered, 28 c ; eggs 39 c ; butDawson Ca, Nov. 1.-October was cool
and dry. Only a small per cent of the usual acreage of winter wheat has been
sown. The leaves have mostly fallen from the trees, and at present we
(Continued on page 430).


75 Young, Tuberculin-Tested, Reg, Holsteins, 75 Fred Bachman's Second Public Sale, Azalia, Mich., Nov. 20, 1913.
In the Sale will be:
Forty beautiful heifer calves, many of these sired by a grandson of Colantha Johanna Lad.
Fifteen splendid yearlings and ten $2-y r$,olds, all soon due to freshen, and the most of them in calf by a double grandson of Woodcrest Pietie.

Several granddaughters of King of the Pontiacs, heavy in calf by a grandson of King of the Pontiacs-a strong King of the Pontiacs combination.
Sale will be held on the Bachman farm, which can be reached from Milan on
the Wabash also Ann Arbor R. R. Coming from the North the morning of the Sale, get off at stop Aiston on the Ann Arbor, less than half mile morning of the Send for catalog. Prescott, of the Hastings Bureau will manage the sale $\left.\begin{array}{l}\text { COL H. L. PERRY, } \\ \text { CHAS. TOMPSON, }\end{array}\right\}$ Auctioneers. FRED BACHMAN, Azalia, Mich.

## GREAT AUGTION SALE AUCTION SALE NOVEMBER 19 <br> $0 f$ Horses and other Property



LEARN AUCTIONEERING at World Ha reateot
 23/ miles Southwest of Orieans, Ionia, O. Michigan.
Wednesday Nov. 12,1913 . 12.



## WANTED.





THE NEW FIRST NATIONAL BANK columeus. hio.

## Markets.

 grains and seeds.
##        

 Corn, Thise market has bivproved with
Weat, values runnint ono those ofrle
week ago. MRany sections that formerly

 One year ag
bas tollo the
as follo

## Weanesday Triussay Friay...

## Friday. Saturay Monday

## Tuesday Chicago


 Which with the demard running supply
calach
cause an easier feeling in the rade and


## Wednesday Thursday Friday Saturday Monday Monday Tuesday

Chicago, (Nov. 4 ) - No. ${ }^{2}$ white oats
$421 / 4$; ; Standard $401 / 410413 / c^{4}$; Dec. $373 / \mathrm{c}$
Beans.- Further reductions are noted in
the price of beans. There has been fairly the price of seans.
liberal selling by farmers, many of whom
are perhaps influenced by the experience of a year ago, when they lost money by
holding. Conditions this year are quite opinion among those best informed that
oalues will advance tater. Most of this
values year's crop will graie high and is at pres-
ent in good condition. which, with the
shortage in the crop should make the outlookk favorable to those havirg beans
to sell. Immediate and Nov. shipments
are quoted at $\$ 1.80$; January at $\$ 1.90$ per are quoted at $\$ 1.80$; January at $\$ 1.90$ per
bushel at country points. At Chicago the
market is steady with pea beans handpicked, choice, quoted at $\$ 2.15 @ 2.20$; com-
mon $\$ 1.50 @ 1.75 ;$ red kidneys, choice, $\$ 3 @$
3.10 per bu. Rye-This cereal declined 2 c the past
week and the tade is quiet. No. 2 is
quoted at 67 c per bu. Barley-At Chicago barley is quoted
$53 @ 80 \mathrm{c}$ per bu.. while Milwaukee quo the malting grades at from 64@81c.
Cloverseed.-Values continue steady
and the trade is firm. Prime spot i and the trade is firm. Prime spot
quoted at Detroit at $\$ 8$ per bu; Dec.,
March $\$ 8.10$. Prime alsike is steady
$\$ 10.50$ per bu. At Toledo, December a $\$ 10.50$ per bu. At Toledo, December
March are quoted at $\$ 8.30$ and pr:m
sike at $\$ 10.70$.
Alfalfa seed.-Market is sten
Alfalfa Seed.-Market is steady, with
prime spot quoted at $\$ 725$ per bu.
Timothy Seed.-Market steady at $\$ 2.50$ per bu. for prime spot.
FLOUR AND FEEDS.
Flour-Jobbing lots in $1 / 8$ paper sacks
are sellingo on the Detroit market per 196
lbs. as follows: Best patent. $\$ 5.30$
 middlings, $\$ 27$; cracked corn, $\$ 31$; coarse
corn meai, $\$ 30$; corn and oat chop, $\$ 26.50$ per ton.
Hay.-A firmer tone prevalls in this
market and prices are up 50 c . Carlots on market and prices are up 50c. Carlots on
the track at Detroit are: No. 1 timothy
$\$ 16.50 @ 17$; stanJard $\$ 15.50 @ 16 ;$ No. 2 , $\$ 16.50 @ 15$ : stant
$\$ 14.500$ light
mixed $\$ 13.50 @ 14$.
Chicago.-Offerings liberal and demand
fair with nrices steady. Choice timothy
quoted at $\$ 18 @ 19$ per ton; No. 1, $\$ 16.50 @$
$17.50 ;$ No. $2, \$ 15 @ 16$.
New York. Prices rule about steady.
Large baled, No. 1 timothy, $22 ;$ standard
$\$ 20.50 ;$ light clover mixed, $\$ 19 @ 20$; heavy
mixed, $\$ 16 @ 18$ per ton. Straw.-Detroit.-Steady. Rye, \$8@9;
wheat and oat straw, $\$ 7 @ 7.50$ per ton.
Chicago.-Quotable as follows: Rye Chicago.-Quotable as follows:
$\$ 8$ @ 9 ; oat $\$ 6 @ 6.50$; wheat $\$ 6$ @ 6.50 .
New York.-Steady

## DAIRY AND POULTRY PRODUCTS.

 advance of $1 / 4 \mathrm{c}$ over last week.
Chicago.-Demand is largely confined
to best makes and extra creamery is the only grade showing a price change dur-
ing the week. Undergrades show considing the week. Undergrades show consid-
eable accumulation and in some in-
stances are dull and draggy. Quotations are Extra creamery $311 / 2 \mathrm{c}$; extra firsts
$291 / 2 @ 30 \mathrm{c}$ firsts $261 / 2 @ 2 \mathrm{c}$, seconds $23 @$
$231 / 2 \mathrm{c}$; ladles $221 / 2023 \mathrm{c}$; packing stock $211 / 2 \mathrm{c}$ per Yor. This market, too, is ir-
New. Yow. Ther, the situation being much the
regular same as at Chicago-top qualities in de-
mand and higher, others slow to lower.
Quotations rule as follows: Creamery Quotations rule as follows: Creamery
extras $32 @ 33 \mathrm{c}$; firsts $271 / 2 @ 30 \mathrm{c}$; seconds
$241 / 2 @ 27 \mathrm{c}$; state dairy, finest $30 @ 31 \mathrm{c} ;$ good packing $21 @ 23 \mathrm{c}$ as to quality.
Eggs. - Strictly fresh stock continues is good and current receipts are quoted ings, cases included, quoted at 30 e per
dozen.
Chicago.-All grades quoted an average of 2 c higher than last week, with
market generally steady. Fresh-laia and fresh-gathered stock commands outside
quotations while mixed held stock, which
constitutes the bulk of the receipts, is somewhat slow at inside figures. Quota
tions are: Miscellaneous lots, cases in cases returned, $241 / 2 @ 281 / 2 \mathrm{c}$; ordinary
firsts $26 @ 28 \mathrm{c} ;$ frsts $30 @ 31 \mathrm{c}$; refigerator
stock in fair demand at $25 @ 251 / 2 \mathrm{c}$ for ApNew York.-This market is strong, the
better qualities advancing $3 @ 4 \mathrm{c}$ since
this time last week. Under grades rather irregular. Quotations are: Fresh gath-
ered extras $38 @ 40 \mathrm{c} ;$ extra firsts $35 @ 3 \mathrm{c}$;
fissts $33 @ 34 \mathrm{c}$; western gathered whites 33 Poultry.-Because the larger dealers ralled to heavy run of receipts prices for
chickens have gone down. Other poultry remains steady, Quotations: Live-Springs
$12 @ 13 \mathrm{c} ;$ hens, $12 @ 121 / \mathrm{c}$; No. 2 hens. $9 @$
10 c ; 12@13c; hens, $12 @ 121 / 2 \mathrm{c} ;$ No. 2 hens, 9 C
$10 \mathrm{c} ;$ old roosters $9 @ 10 \mathrm{c} ;$ turkeys 17@18c;
geese 13@14c; ducks 15016 c .
Chicago- Notwithstanding the heavy
receipts of the past fortnight an active
demana has thwarted any attempt to
slaughter prices. Turkeys are off 2c and
chickens a fraction. Geese are higher and
ducks steady. Quotations on live are: ducks steady. Quotations on live are:
Turkeys, good weight, 16 c ; others 12c;
fowls, general run, 12 c ; spring chickens, $121 / 2$; ducks. $11 @ 14 \mathrm{c}$; geese, $8 @ 131 / 2 \mathrm{c}$;
Chea hens. $\$ 4.50 @ 6.50$ per dozen.
Charket rather quiet, values Cheese-Market rather quiet, values
unchanged. Wholesale lots, Michigan flats
$15 @ 151 / 2 \mathrm{c}$; New York flats, 17@171/c; brick
 Veal-Rather scarce in the local mar-
ket. Demand moderate. Quotations are:
Fancy $121 /(013$ c per lb. Fancy 121/2@13c per lb; common 10@11c.
Chicago-Little doing in this market, mand. Quoted as follows. Good to choice
$90 @ 100$ 1bs., $14 @ 141 / 2$ c; fair to good, $60 @ 1$ 90 lbs .,

## FRUITS AND VEGETABLES.

Apples-Moving freely at better prices.
Quotations: Snow $\$ 4 @ 4.50$ Spy $\$$ S. $50 @$ 3.75; Greenng $\$ 3.50 @ 3.75 ;$ King $\$ 3.50 @ 4$;
Twenty-ounce $\$ 3.50 @ 3.75$ per bbl; No. 2,
$\$ 1.75 @ 2.25$ per bbl; bulk $\$ 1.25 @ 1.50$ per cwt. At Chicago there is a firmer feel-
ing and only moderate offerings. Barreled
goods are moving more freely and at firm
quotations. Values goods are moving more freely and at firm
quotations. Values rule from $\$ 2.50 @$. ${ }^{\text {. }}$. 25
per bbl., No, 1 Jonathan's selling best. Grapes.-In 8-1b. baskets sales are made
at 32 c . At Chicago the market is higher
with receipts small. General quotation, 2@34c for $8-\mathrm{lb}$. basket.
Pears.-Kiefers, $75 \mathrm{c}(\omega \$ 1$ per bushel.
Potatoes.-Since quite a little stock coming in slightly frosted the range of
prices has widened. The feeling among
farmers and dealers is bullish for cheap potatoes seem impossible. Quotations: In
bulk $60 @ 70 \mathrm{c}$ per bu; in sacks $65 @ 75 \mathrm{c}$ per bu. At Chicago the receipts are about
bequal to requirements. equal to requirements, and market re-
mains steady at last week's prices. Mich-
igan stock is going at 70 (075c.
 PRICES ON DETROIT EASTERN MARFormer prices were well maintained on the Eastern Market Tuesday morning.
There was a fair number of farmers and
buyers were plentiful enough to keep prices firm. The offerings consisted large-
ly of apples and potatoes. The fruit growers continue to offer a large number of
windfalls, and this practice is holding the
price of a aples down the ran price of apples down, the range extending
from $50 \mathrm{c} @ \$ 1.50$. Potates were in fair from $50 \mathrm{c} @ \$ 1.50$. Potatoes were in fair
supply with the average offerings quoted
at 85 c per bu. Pears $90 \mathrm{c} @ 1$ per bu;


THIS IS THE FIRST EDITION. In the first edition, the Detroit Live
Stock Markets are reports of last week; all other, markets are right up to date,
Thursaay Detroit Live stock markets are given in the last editun. The first
edition is mailed Thursay, the last edi-
tion Friday morning. The first edition is edition Friday morning. The first edition is
toailed to those who care more to get the paper early than they do for Thursday's
Detroit Live Stock market report. You nay have any edition desired. Subscrib-
ers may change from one edition to an-
ther by dropping us a card to that effect. DETROIT LIVE STOCK MARKETS.
 unis, canners and feeders, which are
steady,
We quote. Best steers and heifers, 87.50 Q7.75; st
st.25
that are
are at cows,
ommon
hoice 200d bo
$4.25 @ 5$
$6.75 @ 7$ and
meifers, $\$ 4.50 @ 5.50 ;$ milkers, large, young,
$40 @ 60$. age, $\$ 75 @ 80$; common milkers, Haley \& M. Sold Wagner 8 stockers av
675 at $\$ 6.60$. to Mich. B. ©o. 9 butchers
av 876 at $\$ 6.50$. 25 do av 977 at $\$ 6.75$, 14 Hintz 7 stockers av 494 at $\$ 5.50,8$ do
ov 660 at $\$ 5.75 ;$ to Bresnahan 26 steers av
128 at $\$ 7.25$, 3 butchers av 703 cows av $106 \overline{0}$ at $\$ 5.50,2$ do av 770 at $\$ 4$;
to Curtiss 8 feeders av 847 at $\$ 7$; to Kam.
man B. Co. 18 cows av 1165 at $\$ 5.95$; to

## Spicer \& R. sold Parker, W. \& Co. 5 $\mathrm{~F} 145 \mathrm{at} \$ 11,7$ av 140 at $\$ 11,16 \mathrm{av} 150$ $\mathrm{t} \$ 10.60,7 \mathrm{av} 140$ at $\$ 11$; to Goose 9 av



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## atares



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prospective patrons that their new 1913 their barns. It horses of this breed that ighty, stabled in their barns. through that challenge of qualiso of mares, too. Get our terms and Guar.

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ive yet the too pritio on conisigmants, mate pittsburg, pa.


FARMERS- Wo


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More than a quarter century
with the breed.

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 Cow Abortionout of your herd and keep it out

## Dr.

## David Roberts

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-ner wivataw


HOLSTEIN CATTLE The Greatest Dairy Breed Holstein- Friesian, Asso.,Box 164, Brattieboro,Vt.




(Breeders' Directory continued on page 433.


FARM 5ETTLEMENT on 3400 acresin5.W.Cearqia CERTRALor GEORGA R R

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divide and sell at reasonable prices divide and sell at reasonable prices on terms of one-third cash, balance
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orchard work). the SINGLEACTION-REGUIAR, the Single Action-EXTENSION HEAD-
orchard work), the BUSH AND Bog PLow, the Plow, the CAIFORNIA ORCHARD Plow, or the
one-horse harrows and cultivaiors, whicheve it may be that you need. Ask your dealer to
show you a COTAWAY (CLARK) machine. Do
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## Horticulture.

THE OVER-LOADED FRUIT TREE. together small branchces in such a wa In taking an inventory of the accilents limb. This practice aids in building strong that may befall the fruit trees, one can- trees.
not overlook the question of over-loaded The style of pruning is another feature not overlook the question of over-loaded The style of pruning is another feature
them In making surveys of orchards the that weakens or strengthens the trees. If observer is surprised at the large num- the tops are not allowed to grow far out ber of trees that have main branches, or away from the trunks then the branches
whole halves, broken down. Where fruit will hold more fruit without breaking. whole halves, broken down. Where fruit will hold more fruit without breaking. growing is a real part of the farmers bus- How to prune to secure this end is the
iness the accidents from overloading cur- art of the real horticulturist. ail to no small degree the value of the The formation of the tops when the orchard products. These accidents nat- trees are yet small determines much in
urally happen on years when fruit is the ability of the tree to withstand the urally happen on years when fruit is the ability of the tree to withstand the
plentiful, and consequently work for a tests of time. If the main branches leave greater shortage the following seasons the trunk at practically the same level when a scarcity prevails and prices rule there is increased danger of an accident high. The matter is also of importance some stormy day, while if the branches in that these trees usually die earlier than start at different levels the insurance


The Usefulness of this Tree has been Prematurely Ended by Overloading. p little if any returns after. the trees are
gone, since the little openings cannot be otherwis
stands.
Overloaded orchards are usually to be
found on farms where the
not given good care. To this statement
there are exceptions, of course, but care-
ful observation will show it to be the years to carry a large amount of fruit
rule. The uncared for orchard will not without endangering them.
produce much fruid for a few years, or Like the attacks of insects and other
until it has accumulated vitality to over- pests until it has accumulated vitality to over- pests, the way to prevent trees from
come its natural handicaps, and have breaking down is to give care that will
some to spare, when it will under favo-- enable them to stand against the demands able circumstances develop an enormous fruits are small the weight is readily borne by the trees, but as pulp and seed
enlarge the weight increases until the entire strength of the limbs is used. Then some windy day the damage follows.
But not always do these accidents
But not always do these accidents oc-
cur on stormy days. The writer recalls being in an orchard one morning and no-
ticing a beautiful Snow apple tree that ticing a beautiful Snow apple tree that
was overloaded with fruit. That afternoon he had occasion to pass by the tree again and the branches were fallen to the ground, as the one in the accompanying
ilfustration. Yet the day was very still.
But storms are an added cause, since the twisting and shaking of the weighted
limbs may tear wood tissue that would limbs may tear woight of the fruit was
hold if only the weight
to be supported. Storms being of exceedingly variable intensity it is-difficult ought to be allowed to carry. But, since must use h:s judgment and operate

## minimum

Now to reduce the loss from this cause pactice to give attention to. A careful on the tree and the removal of any suron the tree and the removal of any surnecessity of considering other means;
still the method of heading and the style still the method of heading and the style
of pruning the trees and the system of bracing the branches, add considerable to And these precautions should be added o that of thinning the fruit.
Bracing the branches is not a common practice except, perhaps, with a few old trees showing a tendency to break down.
However some orchardists do the work systematically by going through the or-
chard when the trees are young and tying

STORING CABBAGE FOR WINTER

## It is often desirable to store cabbage

abbages give off such an unp!easant odor hat it is a very objectionable practice to ilies where sauer kraut is relished, the question of storing cabbage is easily handled, for it can be stored as sauer
kraut but, where this dish is not liked, it
$\qquad$ hey keep in cant be stored out of door moving the unpleasantness of storing in It is a practice with many farmers dig trenches about eight or ten inches
deep, and wide enough to four cabbage heads. The cabbages are pulled after cold weather sets in and af-
ter placing a small amount of straw in the bottom of the trench, the cabbages are set in with the heads downward. Then
the ditch is covered with dirt, leaving the ditch is covered with dirt, leaving
just the cabbage roots sticking out. In the winter when a cabbage is needed for ging away a small amount of the dirt surrounding the root and then the cabbage

$$
\begin{aligned}
& \text { an be pulled out. } \\
& \text { There are severa }
\end{aligned}
$$

There are several advantages of this method of storage. In addition to the eason stated above, the cabbage keep better out of doors. It is a well known ripe, they start to decay and go "down in a ripening state, the better they keep and the less danger there will be from cabbages are often stored for winter whit
they are yet very green. They go on maluring in storage and the colder the turing process. Slight freezes and thaws do not hurt the eating qualities of cab-
bages; it is the alternate hard freezing bages; it is the alternate hard freezing
and thawing which does them the harm and so if they are eight or ten inches below the ground, they are out of danger of hard frosts and so far below that they will not be affected by the winter thaws. The very fact that the heads are kept cool tells why they would be less liable with the heads downward, all the rain or moisture is conducted downward off from the head, not into it. If these vegetables
are stored in this manner and near to are stored in this manner and near to may be gotten and prepared as easily as when they are stored in the cellar. The advantages of outdoor storage for odors from the cellar; 2, the vegetables will keep better and longer, and 3, they easily gotten and prepared for meals. Ing Co. I. Mathews.

FALL WORK IN THE GARDEN.
Riding about the country in the late fall, after the frosts have killed all the tender plants, I have been much interdens, so much the condition of the gared to write a few paragraphs of advice perience. So many seem to think that no more work is necessary after the passvest, and the litter of vegetable tops, next spring when time is limited and moments contend that the weeds and vines
Some con serve as a mulch and help to conserve
the fertility. Be that as it may, I have surplus weeds and vines and placing them on a compost heap, where with a ing elements are prepared to be returned vine has ended its period of production it is promptly removed. So far as possible in this way fewer weeds appear each how much labor can be saved in this way. My garden is covered with a layer of thing is removed, and this is plowed under in the spring. Being exposed to the
action of the elements all winter rots the manure and makes it much more readily alsify be. egetables like parsnips and manure to guard against alternate freez-
ing and thawing during the cold months The flavor of the roots seems consider-
ably improved in this way. Straw and litter frorn the stable also serves as an excellent covering for the strawberry and asparagus beds, as well as the autumn-
sown spinach. In the spring all the coarse material should be raked away and will help to build up the compost heap. excellent fertilizer for sweet corn and has given fine results with melons and squash In the small fruit patch, all dead can are cut away in the fall, not too close to the ground, but no dry branches are left. Leaves may be allowed to collect about
the blackberry and raspberry bushes and
 wound and bushes of the border are repaid by the and burlap, and I am well he added production, and o this fall work in the garden, it is bors say as they drive past, "How neighhis garden looks." When the garden is farm buildings, it adds much to the atNew Hampshire. C. H, 'Chesley


The Potash Industry is the title of a Kali Works, Inc. 1901 McCormick Bldg.,
Chicago. Ill. This book gives sketch of the potash industry, together manufacturing processes, and mining and regarding the output of potash salts and
the consumption of same in the different countries of the world. The importance ject of a speclal chapter. whide the sub-
lustrations comparative yields with without use of potash are shown. This book is sent free by the above firm to
readers of this paper.

## Veterinary.

## Advice through this department is free to our subscribers. Each communication should should state history and symptoms of the case in full; also name and address of writer. Initials only will be published.

 Many queries are answered that apply watched carefully you will probably find has been made to someone else. Whenreply by mail is requested, it becomes
private practice, and a fee of $\$ 1.00$ must

Rheumatism.-For many years I have
been a reader of the Michigan Farmer it. no watching veterinary column I fat
to notice similar cases to my 10 -year-o
driving horse which is lame in right hind
leg, only part of the time. driving horse which is lame in right hind
leg, only part of the time. After a drive
and when allowed to stand still, he shows
some lameness starting, but son recovhim; one of them located trouble in stifle
other treated him for hock joint lame-
ness. The treatment we have apple
fails to make him fails to make him any better and his
hock is free from blemish. B, B.. Shat...
burg, Mich.-I ammont mestined to believe
this a case of rheumatism and if so give him a dessertspoonful of powdered nitrate ing the nitrate of potash, give 2 dr. doses
of sodium salicylate twice or three times
a day. I suggest that you ascertain if
right hock is not warmer than left, and if
so the lameness may be caused by syno-
vitis. For an ailment of this kind, you wi
the
an
tw Car-old horse that has swollen leg and I
am told it is a case of farcy. Part of
amer time leg is about normal, but stocks con-
siderable when not exercised. C. B. G.,
Hartland, Mich. An animal of this kind
should be fed sparingiv of grain when
tdle and not exercised, besides it is good
practice to give them some exercise every day. Also give him 2 drs. potassium io-
dide at a dose in feed twice a day and
oceasionally give a dessertsponful of
powdered nitrate of potash to keep kid-
neys active. Ater exerecise it is good
ner bandage on a few hours.
Weakness-Insigestion.-During early
part of summer I bought a large cow and phe has never been as active as my oth-
she besides. she gets up with difficuty
er: but
and keeps thin. Her appetite is poor; she Mich, Give your cow 1 oz, ground gen-
tian, 1 oz. ground ginger and 1 oz. of bibesides, give her 1 Ar. ground nux vom-
ica at a dose in feed three times a day.
This medicine can be given all at the
same time. Same time. Under Belly-Wart-We have
Fungus Under three-year-old colt that has a raw
a the
bunch under belly and I have applied
carrolic lotion, dusted on burnt alum, also
applied salve without apparently doing
any and The bunch is now as large as any good The bunch is now as large as
a man's fist and bleeds some. R. W.,
Central Lake, Mich.-I am inclines to be-
lieve that this fungus or warty growth
should be cut off and in order to stop the
bleeding, if there is much, burn the parts
with a red hot iron-or apply Monsell's
solution of iron, or tie a silk thread
around blood vessel which will stop the
arount Win not bleed to leath if this is not don
Apply equal parts powded alum. oxid
of zine and boracic acid to wound twic Chronic Bronchitis.-I have a cow si
years old that has fallen away in flesh
has poor appetite and a choking cough
She seems to have difficulty in breath
ing. She has been running on grass and
fed dry corn fodder, but she does not d be tested with tuberculin for she ma ma
have tuberculosis and if so might as well
be destroyed for she will prove unproft
able for dairy purposes and it will not pay to feed her. Give her $1 / 2 \mathrm{oz}$, glyc
heroin (Smith) at a dose. three times
day; also give her 1/2 oz. Fowler's solu
tion at a dose three times a day.
Bloody Milk. -Cow gives bly



Breeders' Directory Continued.
Bigelow's Holstein Farms
Breedsville, Mich. Have for sale several fine young
bulls out of cows with high official butter and milk records.

Send for circular.
TOTOMotch' Holsteins. Choioe bull calves from 6 to 10 mo. old, of fashion-
able breeding and from dams with official milk and butter records for sale at reasonable prices.
MoPHERSON FARMS CO., Howoll, Milehlgan. Bull Ready For Service. A grand son of Pietertje Hengervelds Count
DeKol, and out of Bertha Josephine Nudine
This is analmost faultlesss individual, Guaranteed right in every particular, and "dirt' cheap to a
quick buyer. Also 7 good cows, one fresh-the
others yet to freshen. The above would make a fine herd for some one. 81950 will buy the bunch.
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FOR SALE
20 months old Jersey Bull Waterman \& Waterman, Ann Arbor, Mich.


Lillie Farmstead Jerseys


 | Calves: eows with Register of Merit and Cow Testing |
| :--- |
| Association records. 1 IVIN FOX, Allegan. Mich. |
| Dairy Shorthorn Bull For Salg-Calved Mar. 10th. | $\frac{\text { Red. A sure breeder of extragood calves. Always been }}{\text { kind. W. Knapp. Watervliet. Mich., R. F. D. } 4 .}$ 2 Yearling Shorthorn Bulls For Sale - One white,

White Hall sultan. W, O. OSIUS, Helledale, Mich.
 9 Shorthorns $\begin{aligned} & \text { Sulls from } 8 \text { to } 12 \text { months } \\ & \text { Write for pedigrees. W. W. KNAPP, Howell, Ming. Mid. }\end{aligned}$.
3 Choice Shorthorn Bulls For Sale. 7 to9 mos. olld. Bates bred. Repistered. Call or write to
J.E. TANBWELL. Maple Ridge Farm, Mason, Mich.


## SHEEP.

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 OXFORD RAMS AND EWES For SALE at Three-Year-OId OXFORD and SHROPSHIRE Rams For Salo OXFORDS For Sale OXFORDS, 30 Reg, Rams, Prices Right. IT PAYS TO BUY PURE BRED SHEEP OF PARSOMS, Registered Merino Rams For Sale.
oscar frost \& son, Armada, michigan.

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| :--- |
| E. |
| $\mathrm{S}^{\mathrm{B}}$ |}

rana
REGISTERED SHROPSHIRE ${ }^{- \text {Rams and ewes for sale }}$ raseonable prices.
Breeding of the best. Harry Potter, Davison. Mich. MAPLESHADE FARM SHROPSHIRES Mag. yearling and ram lambs 25 , ewes and 15. ewe
lambs. WM. P. PULLING \& SoN, Parma, Michigan. Registered shropshire Rams. \$85 each: 3 yearlings; 4 2 year.olds: will also trade for
good one, (not used.)
O. E. WINTERS, Augusta. Mich.
 SHROPSHIRE YEARLING $\begin{gathered}\text { and two-year-old Rams. } \\ \text { Good onee. priced to sell. }\end{gathered}$
W. E. MORRISH. Flushing. Michlgan. SHROPSHIRE RAMS AND EWES FOR SALE.

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Berkshire Boar of spring farrowing with the BURGESS'S BERKSHIRES, MASTERPIECE STRAIN THE LONG SQUARE KIND
2Handsome yearling boars,
Bpring pigs. Palendid fall gilte 4

 | ewes bred to |
| :--- |
| HERBERT |
| E. Pice POWELE |



Of depot, OTTO B. SCHULZE, Nashville, Mich.
O.I.C's.-Taking Orders for Sept. Pigs, pairs and

O. 1. C. SWINE



O. I. C. SPRING BOARS and FALL PIGS ${ }_{\text {MAPL }}^{\text {able }}$

## O.II.e. 2 <br> SOW WEIGHED 932 LBS. <br> AJ 23 MONTHS OLD <br> mama <br> Ihave started more breeders on the road to suc-  



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CAREY U. EDMONDS, DUROCS, Good Enough to Ship Without the Money,
 ESSEX PICS ${ }^{- \text {We are offering just now }}$ gome very ohoice young
 POLAND CHINAS Both Wetern and Home
Prices right. W. J. HAGEELSHABW. Augusta., Mioh. Poland Chinas and Single Comb White Leghorns. POLAND CHINAS Tishon sity Pavatiter ir iome
 P. C. MIRCH AND APRIL PIGS FOR SALE -Poland Ohina Boars: March

 POLAND CHINAS - Either sox. alt ages. Some.
P. D. LONG. B. No. 8. Grand Hapide, Miohigan.
 Butler's Big Bone Prolific Poland Chinas




IMPROVED LARGE YORKSHIRES





## Lillie Farmstead Yorkshires



## Poultry and Bees.

ATTENTION DEMANDED BY THE MA TURING PULIETS

We now find the early pullets laying o egg production. Their singing thencing dening of their combs and $\boldsymbol{v}$ the frequent visiting of nests are all sure signs of early laying. But these indications alone are not sufficient to insure a full egg basket must be carefully handled lest they be good winter layer at this time. Good results, while, on the other hand, negli gence will do harm.
November the young The pullets should be in their winter home ing. If they are interrupted after they commence to lay by being changed about rom one pen to another, the unfavorable urroundings and the excitement inciof eggs for some time. Fowls get accustomed to their home and do not care to
be changed about. Therefore, to secure ter home early and keep them there.
best results get the layers into their winmaturing pullets. When taking them order to induce egg production. Now, I ually and thus prevent the fowls from
getting out of condition. On the other must be guarded carefully. On the other early winter because they are not liberal
enough in feeding the maturing pullets; this time require a large amount of food.
They are, and should be, hearty eaters It pear to care whether they eat that troufood they want but make them work for ion. At night, especially, should they
ave all they want. A little food left over morning, however, they are kept slightly the morning they would most likely spend Some may urge that liberal feeding will have yet to find this true with growing much food they consume they will not put on excessive flesh. All the food they conframe. It is only when pullets have main-
tained their growth, and egg production Some breeders consider pullets the only
profitable winter egg producers. Yearlin profitable layers during and after the pushed for egg production the previous condition for egg proauction in January. The eggs they produce will be worth man
imes the cost of the food the hens con immes the cost of the food the hens con-
sume. Hens, however, if confined during
$\qquad$
$\qquad$
HEXAGONAL POULTRY HOUSE.
$\qquad$
$\qquad$
anetimes happens that the mo asirable location for a poultry house is would detract from the surrounding buildings and mar the appearance of the place -a reason why the one described herewith was erected.
In the first place it is a compact building; it has six sides and area equiva-y-seven feet ten feet wide and twen-ty-seven feet long. By consulting the
floor plan it will be seen that there is a feeding alley, yet it takes up but a small portion of hor sace hore far entrance, a great convenience in feeding,

## cleaning, etc. The plan shows four com-

 door, straight across in place of the two farthest from the entrance, one-half of he whole space can be used as a single ing for breeding purposes. The posts for the inside doors run from the floor to tie beams above and they are used to support the partitions, which are try netting two and one-half feet wide making the total height five and one-half feet. Two strips of netting are used be-cause it is easier stretched than the wide etting.
The doors are house screen doors, and they may be culls of the cheapest kind;
if oiled with linseed oil occasionally they will last for years and they make a light, serviceable door. A spiral door spring is used to keep them closed and no other astening is necessary.
There are five windows which slide in enings in the building being made in the center of each of the five sides, the sixth
being used for the entrance door. These five windows make a house with no dark orners and the sunlight can penetrate to the farthest corner, yet at no time will
there be a flood of sunshine to overheat in the middle of the day.
The window sash are made different from the ordinary sash (see cut). The
outside frame is extended so that there
are really two sashes in one. One-half of



 sliding sash.
The roof slopes from all the six sides up and toward the center where there is
$\qquad$
$\qquad$

## low, although there is no draft upon

The perches are used without dropping boards and are about two feet from the floor; one end resting on the girt that
supports the window sash, the other in the wire netting of the partitions, they re removable and there is little chance I find that this type of building suits my purpose better than the long type; it easy to keep clean and free from vermin; it is convenient to work in; it is easy to build yard fences, as they run out 11 parts of the from a common center; parts of the interior can be seen from urb the fowls.
The cost of such a building is little, if ny, greater than other kinds, the differis cut on the bevel except the siding buthing
with a bevel square properly set to begin is not so difficult as the appearance of
he building would indicate
EXPERIENCE IN OUTDOOR WINTER. NG OF BEES.
The bee-keeper who tries to winter bees summer stands in any form of a hiv will than a chafr or double-walled hive of bees than the extra expense he would at in making chaff hives of some kind think that some form of hive that can used. This thing of summer should winter cases to set over hives is decidedly winter cases to set over hives is decidedly
disadvantage in many ways. When winer is over they cannot be used about the piary to any advantage whatever, bu he bee-keeper must have a house or othwarped and weather beaten, and will las but a few years. The use of a summe and winter chaff hive certainly overcome many of these objections. hives, used in connection with sawdus cushions over the top of the brood cham is nothing better for wintering bees on summer stands with very winter my bees on have plenty
oung bees, of good stores, plenty

$\mathrm{B}^{\text {ETTER put on this }}$ Stephenson Underwear for traveling-I've washed it and it's just like new-No! Never a darn needed. Feel how soft and comf'y it is. I'm going to buy it every time for you because it's substantial, buttons well sewn on, and the stitching is just perfect. I know it by the label'

## STEPHENSON <br> UNDERYEAR


ite for Interesting Booklet on Unment. Stephenson Underwear Mills, South Bend,Ind. Product sold to Merohants Only


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 COLUMBIA Wyandottee, Winners at Ohicago, G rand PINE OREST WHITE ORPING TONS won at State
 S ILVER LAOED, golden and white Wyandottes. Egga LILLIE FARISTEAD POULTRY


 WHITE LEGHORN COCKERESS-Wy\%or




## Farmers' Clubs

Address all communications relative to P. Johnson, Metamora, Mich.

Associational Motto:
The skillful hand, with cultured mind, the farmer's most valuable asset.

CLUB FAIRS.
The Washington Center Farmers' Club 9, at the home of Mr. and Mrs, C. N.
curren. The weather looked somewhat threatening in the morning but by noon
there were about 175 people gathered together for a pleasant day of visiting and
sight-seeing. Two large banners stretch-ight-seeing. Two large banners stretch
d across the buildings announced tha all were weleome to the Farmers' Club Fair. Flags, bunting, crepe paper and building into a converted the in of beauty Our Motto "The farmer is of mor
onsequence than the farm, and should b nint wis Western Pomona Considers Variety of Ottawa, otherwise known as Western, Pomona met with Conklin Grange last
month and reports a good attendance regardless of unfavorable weather and
roads. After a dinner which belied reroads. After a dinner which belied re
ports of unsatisfactory crop conditions in that section, Master N. B. Spencer called
the afternoon session. The roll-call re-
sponse was in answer to the question, What is the greatest need of the times?" and brought many good suggestions. One
brother thought that the abolltion of the thought we are much in need of good oads, of honest, upright and unselfish
men for officials and of granting to wom-
en the right of suffrage. "How to supply our cows with feed when pasture is
short," was answered by Bro. Ralph Wells, who thought the use of the sum-
mer silo the best means of furnishing
such feed. A good pateh of sweet corn
was suggest of re-submitting the bonding question for
good roads brought out a lively discus sion. While Pomona Grange does not
claim to have settled the matter, still the main sentiment seemed to be that the
county road system is all right if we county ret good, unselfish, competent men
could get
for commissioners and overseers. Bro. Spencer, in a very able talk, de-
scribed how membership in the Grange
may benefit a person in his life work. He may benefit a person in his life work. He
spoke of the social and educational ad-
vantages of the order and how the latent abilities of members are developed by upon the current topics of the day.
At the evening session Bro. Courtright
Be described the workings of the employers empt from the effect of this law, yet if
the hired man is injured while running a binder or mower, or in erecting or repair-
ing a building, the farmer can be held for
damages, from the fact that this law classes such work as mechanicals gave
Myrtle Brown and Anna Sivers gaver
many good suggestions in regard to the maprovement of rural schools. They urg-
ed all districts to endeavor to get their
schools into the "Standard Class" as pre-
 Allegan, gave an interesting address on the great transformation for the bettur
that has come to the farming class dur-
ing recent years, and stated that in his Add New Members.-The Salem Farm-
ers' Club held its October meeting at the ers Club heldits October meeting at the
new and commodious home of Mr. and
Mrs. Irving Johnson. After the bountiful dinner, which the Salem ladies. know so
well how to prepare, an excellent program
was rendered. Mrs. Mae dered a recitation entitled, "The Golden tation now in force. Also speaker did not od or was discussed by the hay, etc meth An interesting reading the was of given by Mrs.
Mrs.
Kate Smith, entitled, "The Two Clocks," A humorous recitation was given by Mrs,
Dewey Farley, entitled, A Clean Shave,
A paper was read by Mr ary and musical numbers furnished by ure of the program.
Eaton County Combines Business with In the commodious home of Delta Mills
Grange was held, during October, a meet. ing of Eaton Pomona Grange which, in
many respects, was the most successful in the history of the county Grange. Every
section of the county was represented,
some subordinates sending good-sized
delegations. All seemed determined to
make the most of the social side without in any way allowing the business of the
meeting to suffer. The first duty of a
Pomina Grange is to assist struggling Pomona Grange is to assist struggling
subordinates in any way possible. While
reports from all points were reasonably satisfactory the matter of taking some
steps whereby a little missionary work
might be done in behalf of the weaker might be done in behalf of the weaker
Granges was brought up and it was de-
cided to have members of neighboring


Inestigate the SANDOMW



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 etrain piece of woven wire fencing apparently indestructible under long years of severe trial.
$\qquad$ of chance by the employment of a tre-
mendous manufacturing organization and brought them under control for

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"Some of our neighbors have lost all all right, and I consider that it keeps the 60 days these hogs weighed over 150 lbs , long before the pigs were cleaned out doing well either, but since feeding 'Sal Vet' to them, they are doing fine," 'Sa

ISENBARGER BROS., does better work generally than many CHAS. PETT, Muskegon, Mich. and they are the best hogs 1 ever owned. 'Sal-Vet' hereafter." M. JACOBS,

## BEN A. BAUGHMAN <br> Northville, Mich

 Box 56, Moorestown Mich,"After, all other remedies had failed, ery year on account of worms suffered ev- "My pigs were full of worms, and did Results are so apparent that there is no destroyed the worms in one of the hogs did not weigh over 75 pounds so a short time, I was convince that it a third in milk at My cows increased one-
TII Stop Your Losses from WORMS

## Pll Prove It or NO Pay-

IF YOU will fill out the coupon below-tell me how many head of stock you have, I'll ship you enough Sal-Vet to last all your stock 60 days. I'11 do this entirely at my risk and without asking a single penny of pay in advance. All I want is the privilege of proving to you right in your own barnyard what I have proved to thousands of other farmers. I want to show you how to rid your stock of worms-how to make all your farm animals grow faster, thrive better, keep healthier, put on more flesh on no more feed-make you more money. You can't afford not to accept this remarkable offer.


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Conditioner
is the biggest boon to stock owners ever discovered. It is a wonderful medicated salt which rids farm animals of their greatest enemies the deadly stomach and intestinal worms. It kills and expels these blood-sucking, life-sapping parasites and danger from hog cholera and many other diseases. Read these letters-
"The benefit which my horses, cattle and sheep derived from the use of 'Sal-Vet' is such as to make it
almost indispensable."-A. L. Martin, Director of Institutes, Dept. of Agriculture, Harrisburg, Pa.
"Your 'Sal.Vet has done all that you claim and perhaps more. Hog cholera has been all around
me and haven hat had on sick hog. Icannot praise Sal Veit too highly, and I do not hesitate to recom-
mend to to all hog raisers."A. O. Kellogg. Troy Grove, Il.

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Just as I have for hundreds of thousands of other farmers who sent me the coupon. Send no money. I don't ask you to risk one penny. Tear off the coupon below, mark down the numping station and I'll send you enough Sal-Vet to last all your stock 60 days. You simply pay ping station and I'll send you enough Sal-Vet to last all your stock 60 days. You simply pay me moderate freight charge when it arrives and at the end of 60 days report results. Tell me what
of the dangerous stomach and intestinal worms I'll cancel the charge-you won't owe me a penny. It is no trouble to feed Sal-Vet. Being a salt animals like it and run to it freely.

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It requires no dosing, no doping, no drenching, no starving, no trouble at all. yourely then't afford to turn down this liberal offer when many Agricultural will tell you it pays to feed Sal-Vet, eds of thousands of farmers ill tell you it pays to feed Sal-Vet, especially since you can try i
at my risk and without a penny of pay in advance.

Sidney R. Feil, Pres., THE S. R. FEIL COMPANY, Cleveland, 0.


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Rt. No. 1, Box 15, Lohman, Mo.
"Have used 'Sal-Vet' on two of my horses and notice passed a large number of worms and are now picking
up in flesh.--Wallace W Case, Rock Hill. "I am a large user of 'Sal-Vet' and we have a large flock of Shropshire sheep, and our farm is, as in the least with worms. Out of 191 lambs that we had dropped this year, we lost only one, and that death
was (not caused by worms."-Henry L Wardwell, was not caused by worms. Henry L. Wardwell,
Springfield Center, N. Y., Ex-President of American
Shropshire Association.
"Sal-Vet' which Ifed, paid me a profit of $\$ 75.00$." - keg of 'Sal-Vet' which I fed, paid
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"As soon as the 'Sal-Vet' was received, we began feed-
ing it at once to our sheep, that had been dropping off with no warning whatever. Am glad to say that we have lost only one since that day, but no more. Horses, hogs and cattie have done splendidy since having free
access to 'Sal-Vet' and am free to say that I never had
better success with any preparation, than I have had better success with any preparation, than I have had
with yours."-J. B. Burrows, Decatur, H1l., Director 19th
 Special discount for large quantities. No orders filled
less than 40 lls. on 60 -day trial offer. Never sold in bulk; only in Trade- barked Sal-Vet packages.
trial shipments are based on 1 lb, of Sal-Vet for hog or sheep and 4 lbs . for each horse or head of cattle,
as near as we can come without breaking regular pkgs.

