

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


DETROIT, MICH., SATURDAY, JANUARY 9, 1909.


FARM NOTES.
Rape as a Forage Crop.
I have three and one-third acres of fairly rich land next my hog lot which
wish to plant to rape in the spring, running spring pigs on it later on. How old
should pigs be that are farrowed the latshould pigs be that are farrowed the lat-
ter part of March and the first week in ter part of March and the first week in Apri, when they are turned into the rape. much per acre, and vice versa. In what
stage of grow th should rape be when pigs are turned onto it. With an average pigs, fed a moderate would forty spring with skim milk, be too many for the area? Also, a neighbor of mine tells me says the rape will grow so rank the pigs editor any record of clover. Has this having been successfully do
Tuscola Co.
This question is one which should in terest a great many Michigan farmers who have not tried rape as a forage crop. In the writer's opinion, it is one of the use in our state. It is particularly valuable as a catch crop for summer forage and is also a valuable crop with which to seed clover, as is suggested by this inquirer. It is entirely practical to use rape in the hog lot, utilizing it as a green forage during the summer, and at the same time seeding the ground to clover Cor a clover pasture the following year.
The ?iriter has a small hog lot which was seeded in this way in the spring of 1907, and a fine seeding was secured. rape in a field sown to supply a succulent variety for the sheep during the midsummer months, and have rarely failed to get a fairly good seeding of clove with rape when so sown. There is no reason why the seeding would not sucs seed as well in the hog lot as in the sheep pasture. In fact, our experience with
two or three trials has been that it will succeed.
To secure a maximum of available forage for the hogs, it would be better to have this area of pasture divided into two or three smaller lots by using a temporary fence; then it could be sown at different times, beginning in April and three weeks until the first of June. Then as one piece was pastured down, the hogs could be turned into the next and to grow up again. Handled in this way should furnish ample fora number of pigs mentioned. However, it dollars and cents, and where it is to be seeded to clover it would
to sow the whole area at one time, say about the first of May. Upon this rich * soil with a fairly well prepared seed
bed, it should be ready to pasture in from six of eight weeks from date orable weather will good forage thruout the balance of the season. In especially dry weather and does not good forage, of course, as when it attains a nora gre variety she dwari sown, care to secure the seed from a reliable source One difficulty which is experienced in the use of rape for hog pasture is that it seems to have an irritating effect upon

## A FEW LEADING ARTICLES OF THE WEEK

Planning Farm Work.-Comments on the advantages of early made and well matured plans for carrying on the business of the farm for 1909.......25-6 Keeping a Farm Account.-Some essental requirements and benefts of farm Pork
Pork From a Bushel of Corn.-A discussion of the varying factors which Ice Water for Stock.-All around comfort of live stock is necessary for Ice Water for Stock.-All around comiort of live stock is necessary for a Get Fertile Eggs.-Breed from selected pens, rather than whole fiock; how to feed breeders and care for eggs
How and Why the Fat Content of Milk Varies.-A review of the reasont for the variation often found in daily tests of a single cow.
Starting An Apple Orchard.-In setting fruit trees one is preparing for a crop that will continue for many years and ho should avoid every condition that will be detrimental to the trees


white pigs; which are allowed to run be grown.
in it whie the dew is on, so that it is New Land.
in it whie the dew is on, so that it is
well to exercise a little care in turning the small pigs into the rape. However,
the spring pigs farrowed at the time the spring pigs farrowed at the time
noted, should be large enough to avoid noted, should be large enough to avoid this trouble by the time the rape is ready
to pasture. About 4 or 5 lbs . per acre to pasture. About 4 or 5 lbs. per acre
sown broadeast and harrowed in lightly
is sufficient seed. We prefer 4 lbs rather is sufficient/seed. We prefer 4 lbs . rather
than more twhere clover is sown with the rop. Whete it is sown in drills and Manistee Co. cultviated, 2 or 3 lbs. per acre is used, new land should need fertilizing for the but where the land is seeded with the crops named, at least, not heavily. Of

and deficfent in potash, it would probably pay to apply a moderate quantity of commercial fertilizer with from 4 to 10 per eent of potash for the potato crop. How arow rop porth the grows good crops hardly with necessary fertilizer, it would hardly seem necessary
to use it the first year. In any event, to use it the first year. In any event, the ground is plowed, as suggested. The ground should be plowed and harrowed down and the fertilizer sown and worked into the soil previous to planting the
Of course, it is not advisable to permit new land to become run down in fertility, and care should be taken on all light land particularly to seed to clover frequently, making the rotation a short one from the start so that plenty of humus growth of future crops. Then by for the growth of future crops. Then by the use of relatively small amounts of phosphorus and potash, in the form commercial fertilizer, the fertility of the soil may be kept up at a minimum of expense and a maximum of crop yield be secured in accurately just what kind of fertilizer or how much should be used on any soil for any given crop, it is necessary to put the question to the soil itself. For this reason, the writer would advise that you purchase a small quantity of commersial fertilizer and use it the first year in varying amount upon a part of the are to be put into these crops, noting the different quantities as a means of deter mining just how liberally to supply any needed fertility in future years.

PLANNING FARM WORK.
Have we laid our plans for the campaign of 1909? This is a question we comfortable fire on a stormy winter's day, and we should continue to ask it until all is settled in our own mind and talked over with our family until wo are satisfied these plans cannot be bet
tered under the circumstances. Then wo should know where everything is coming from to carry them out. crops and think a change unnecessary or undesirable and hence consider that our plans are laid, but even tho we fol low a general rotation there are so many the rotation substitute for any one in


Well-kept Farm Home of W. Howe, Montcalm Co, A Closely Mown Lawn Makes an Ideal "Back Yarar
farm is large and help
scarce, or one upon
which we can put much labor and get better re-
turns if our farm is small. We can keep
more live stock or less live stock or a different kind of live stock, or
perhaps we can plant more orchards and small farm be small and a we have a large family to help pick it.
Then again there are many things to be done on most farms in the we should lay our plans
for these also. It is impossible to even state all of such things that

THE MICHIGAN FARMER.
may need to be done; they will vary with
the condition of the farm and buildings, but on every farm the following will need attention at some time: Buildings will need repair and paint or perhaps another building will be needed this season or one enlarged. Now is the time to plan for such work if to be
done next summer or even the next. If one has a wood lot he can get out much of the timber and have it seasoned before active operations begin. The stone
can also be on the ground, cellars dug, etc. In keeping buildings in repair we can profitably remember that "A stitch in time saves nine. It is much easter to replace a stone in a wall and paint as it would soon be; it is easier to drive the whole board; to fix a loose hinge than to buy a new set of hinges and replace a broken down door; it is more economical to paint buildings one coat every and besides they will look much better. Fences are another important object
of winter planning. We should study
 ther forage that the farm produces. The for six has room Catalpa seed is sown in drills or rows twenty cows, and and swamp oak will grow catalpa, which young stock, tools, ve- the last of April. The rows should be hicles, harness, grain, far enough apart to enaple a horse culin the east to run to one seedling per inch. Keep cultivated straw out of doors at d threshing time, but
this farm has sufficient width to raise the carrier inside, allowing the straw to drop on a slide where
it is moved over to straw mow. The
straw being directly t
over the horse stable, over the horse stable,
it is convenient to use
for feeding or bedding
in either the horse or in either the horse or
cow stable.


There is considerable confusion in the There is considerable confusion in the use of the names cottonwood and Caroina poplar. If by "Cottonwood" is meant populus deltoides, or the large leaved aspen, then the Carolina poplar is a horse there is practically no difference as
rate of growth or timber value.
This tree is best suited to rather low, alluvial river flats, but readily adapts plentiful supply of under molsture. ogs in fifteen to twenty years. First grade lumber sells for about $\$ 20.00$ per M. board feet.

- BAKER
 The illustration shows a team wearing
Whippel Humane Horse Collars, used to
prevent galls or bunches on shoulder prevent galls or bunches on shoulders
and neck of the horse. The principle on
which Whipple Humane Horse Collars are and neck of the horse. The principle on
which Whipple Humane Horse Collars are
made is the simple one of letting the burden of the load pull on the shoulde
between the upper blade and the shoulde between the upper blade and the shoulder
joint. There is thus no chanee for the
joint to bruise against a hard stuffed

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NOTHING EXPERIMEINTAL ABOUT

## Superio

 Superior Grain Drills are not an ex periment or something new. Thou sands of the most progressive farmer in every part of the grain growing world are using Superior Grain Drills, not only for sowing oats, wheat, rye bers, fere, etc, but for driling cow peas, beans, beets and all other largeand small grains. Superior Drills will accurately sow any and Dris will accurately sow any and all grain
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every locality in the grain raising world. Write them for a Superior cat alog, and they will be pleased to send it to you and give you any information desired.
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FARM FENCE


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booklet, to Humane Horse Collar Co
1964 So. 13th St., Omaha, Neb. This in formation should sana, Neb. This in in time when you need your horses most
as well as keep your horses in the best
tainly very handy and economical and visable to use the Hardy Catalpa for
readers should not fail to avail themselves Michigan planting. It is a tree belonging

## KEEPING A FARM ACCOUNT.

With the beginning of the new year it is quite generally known that merchants take an inventory of their stock. This
is done that they may ascertain what their profits have been for the past year and on what line of goods they have made the most proft. goods have not sold well or that he has been making no profit, on them he will
usually use his efforts to making that usually, use line more profitable or else he will gradually drop it for some more profitable line.
keeping an account of their particular in erations and in taking an inventory of would be a revolution in the farming operations of a large portion of the farmers. But they go on from year to year
without knowing whether they are making any money or not, or if so they do not know what particular branch of their farming operations is bringing them the profit
loss.
If merchants would pursue this course they would soon be forced "to the wall," these lines than almost any other busiing comes from the farm and he usually gets that much without much effort, but ing out just what branch of our was netting us the most profit, as the out the most profitable line in his busito making this particular branch still more profitable, we wour." taking to keep an accurate account of our farming operations, but, after one
has become accustomed to it, it becomes a part of the day's work to sit down at
night and make a note in our books of how much time has been for the day, the various crops during the day, th There are several advantages to be deived from keeping an accurate account of our farming operations which will present themselves nearly every day in
the year. For instance, if any money has been expended during the day it is entered on the expense account and should any question arise as to whether it has turn to his expense account and find it acts as a sort of a recelpt for all debt many times one is in doubt as to just made, or perhaps it may be the cost o then all one has to do is to turn to his ooks and he has the facts before him. While one can be as elaborate in his
methods of book-keeping as may suit his methods of book-keeping as may suit his
fancy, yet it is usually better to make



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in value, owing to usage, etc. If mor
farmers would keep an accurate book account it would be a step in the right direction towards increased profits in their farming operations.
$\qquad$ TREATMENT OF HARD, HEAVY CLAY FOR SUGAR BEETS.
What is lacking in clay (meaning hard clay), that sugar beets need? The plant
won't do well even when clay is well manured. well even when clay is well
Tuscola Co. J. McCracken.
It is a very difficult matter for a man to tell another man what to do with any trying to give the information has never had the opportunity of making a per sonal investigation. It is a good deal like a physician trying to prescribe for some of making a diagnosis of the case or of circumstances. In all cases it is unsat isfactory and many times dangerous to give advice because a personal examination might make an entirely different might be warranted in prescribing for the headache in a general way because it is well known that headache is usdigestion, or something of that sort. And so, too, a veterinarian might be war. ranted in telling a man a remedy for a ringbone, or for colic in horses, be-
cause the same remedy would be almost only be warranted in well known disapplicable, and so it is in trying to tell what is the matter with Mr. McCracken's
clay soil. He says if it is well manured it doesn't respond to sugar beets. Sugar beets don't do well, and of course he
wants to know the reason why. Now it might, be the season. If the season is well. It may be that this clay soil lacks t. If the clay is inclinclined to puddle it is worked a little too wet, it is a prett
good sign that it needs some lime. Lim has a wonderful effect upon hard, tenaclous clay to make it more pliable and
$\qquad$ of this hard clay so that beets would $d$
 ommercial fertilizer por acre,
broadcast before sowing the beets
a short time durrng, the early stages insects, such as garden worms and t ther time This is the only thing
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$\qquad$"Jubilee Year" of Page Woven Wire Fence
PAGE WOVEN WIREFENCECO

## LIVE STOCK

PORK FROM A BUSHEL OF CORN

For a long period of time there has been a general inquiry as to whether it is possible to ascertain the amount of
pork that can be made from a bushel of corn. I have often been surprised that farther than the query would indicate that they seem to. There are so many varying conditions surrounding the hogs,
and the capabilities of the different hogs vary to such an extent, that to undertake must of necessity be an impossibility: The Condition of the corn.
In the first place, the intrinsic feed value of corn varies greatly according fully matured. It certainly ought not to be expected that whole corn will produce as much meat as that which has been
ground. Notwithstanding the fact that hogs relish whole corn, the inability of mature hogs, at least, to thoroly masticate it and put it in such a condition that all the nutrient elements can be extracted
from it by the process of digestion, makes it certain that there must be a difference ground finely so that the gastric juices can act upon it, and gather all the nutrients that it contains.
And then again, corn meal fed alone is
liable to adhere together so closely that the gastric juices cannot penetrate the mass and get hold of all the particles to extract the nutriment. If it is mixed
with something that will increase its
bulk, and separate the particles, more can be expected and received from it clude that the amount of meat which it is possible
bushel of corn depend
quality of the corn, manner in which it
It must also be conceded that there is a wide difference in hogs. The long, long legged, and long snouted hog, can not be expect
not be expected to make as much mea pact, short faced, short necked, broad short legs and a quiet disposition. There ties to lay on fat by the nervous, restles animal, and the quiet, contented one,
that those things should be gievn due consideration.
Then the age of a hog has something it the way or hying on hest. The ail
gestive organs
are in in better conotitio gestive organs are in better condition
with a pig than with an old hog, hence
he is able to get more from a given amount of feed than the old animal that that his digestive organs can not make n
in that direction and a lack in the other. all over the country, extraordinary inexperiments, that when corn meal is and I see in this and other facts, signs mixed with an equal amount of wheat of increasing interest in the horse beaumidalings that the increase from a tiful, with an attendant interest in breedhundred pounds of the mixture is in- ing
the cost is diminished It is ansidcost is diminished. It is safe to ered is the foreign demand for American
calculate that if a variety of feeds are horses, which is increasing at a phenocalculate that if a variety of feeds are horses, which is increasing at a pheno-
used the cost of the increase in weight menal rate, ship loads of horses being is diminished, and the amount of pork exported weekly. England, Germany, that can be produced from a bushel of France, Scotland, and in fact, all Europe to 10 pounds can be realized on a cheaper feeds, such as middlings, June clover, and alfalfa, we can expect to produce from 15 to 20 pounds of pork, live Weight, from $\qquad$
A HANDY HOG TROF
On many farms, the wife, daughter or son is left to carry the kitchen slop to usually make a man spill more or less slop, if fed in the ordinary open trof,
also say things that he would not care to hear the boy say. By constructing the trof as shown in the illustration, this trouble will be avoided. As shown one for about three inches, and the space racks are made so small the hogs can
not get their feet or noses thru, the at-
tendant can then pour the slop in and the hogs can not get to the pail to push trousers. By boring a spoil his Sunday
theh hole in one end and fitting a wooden plug in, the trof may be easily washed and cleaned.
This trof is inexpensive and easy to construct, and will save the attendant
$\qquad$ Reader. THE HORSE Is KING.
Let no one imagine that the horse is
son to become an object of curiosity Bicycles, and tricycles have come and
gone, and the automobile has been mak-
ing considerable noise the and cutting up capers and people, while or rather eating ats, kind of horses can sell them and buy a
bank. Horses have been steadily going up, which is much better than blowing
up, as the automobile has been Automobiles will come and go, may "The Hond speed out, but his majesty,
road against rall compans motition. No op the machine
$\qquad$ stood the locomotive, merely permitting
him to do the heavy work, and give him an easier life. Inventions will crop up
from time to time, but none will dispute
$\qquad$
$\qquad$ so


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\mathrm{ou} \\
\mathrm{pa}
\end{array}
$$

out out a purpose. These days have now
passed, the numerous stock and
shows shows have numerous stock and horse the country to take forethot enough to control by proper breeding, the quality of the stock required by the horse mar-
kets of the world. I I win say that I am not afraid that the horseless days are upon us, the automobile flying thru the country notwith-
standing; and not while the automobile standing; and not while the automobile
remains blind to your actions of kindness and dumb to the sound of your voice,
nor while the horse is the delightful company he is, whether in the stables,
under the saddle or in the under the saddle or in the harness; cer-
tain it is that as far back into the ages as we can trace his association with
human beings, the horse appears as the friend and intimate companion of man.
He steps dovn He steps down the ages decked with
the flowers and wreaths of love, poetry, romance and chivalry, no less than with the stern trapping of heroism and war
Illinois. SORTING THE FLOCK.
The prevailing price of both grain and
roughage this year is causing a large
number of flock owners to sort their
flocks very elosely thinking perhaps they
can dispose of their farm grown products at a greater profit than thru feeding
them out to their sheep. It is of course always advisable to get rid of unprofitable animals but it is not a prudent move to
sel desirable live stock off the farm simply because there appear an immed-
iate margin of profit between feeding it iate margin of profit between feeding it
on the farm and selling the feed upon the on the farm and selling the feed upon the
market. While it may seem at first sideration that, sorting the flock down to a few animals is an advisable move and
an easy way to make money, in an easy way to make money, in reality
it is a short-sighted venture and one that in the course of a few years will not
only result unprofitably but further de-
$\qquad$
$\square$ until owners to delay sorting the flo work is out of because after the fall erally secured one is in a better position
$\qquad$
$\qquad$ upon the farm is fed out to sheep during
the winter a large amount of very valuable manure can be made and returned simply figure what it will cost to main
tain the flock and the profits returned
in the way of dollars and cents. The
financial side of sheep raising should of
course receive the first consideration, but course receive the first consideration, but
the relation of maintaining sheep upon
whiter
$\stackrel{\text { an }}{\text { me }}$
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$\qquad$






[^0] the farm to soil fertility should also
considered. If the roughage and gra ways be in demand. Buyers are today
searching the country for good horses
of all kinds, and are offering thirty per cent better prices than were offered a few
months apo. very recently the opinion
mexalled that the horse industry was on the high road to eextingulshasen wras from
heglect, but this has been ahatod by revival of common sense, which proves
to us that while human beings inhabit the globe, the love of God's noblest animal,
the horse, will continue to demonstrate Fashionable hiorse shows are frequent

## Bony Growths



Kendall's SPAVIN CURE



 Many people are afraid of ghosts. Few
people are afraid of germs. Yet the ghost
is a fancy and the germ is a fact. If the
germ could be magnified to a size equal to its terrors it would appear more teri-
ble than any fire-breathing dragon. Germs
can't ble than any fire-breathing dragon. Germs
can't be avoided. They are in the air we
breathe, the water we drink. The germ can only prosper when the
condition of the system gives it free
scope to establish itself and condition of the system gives it free
scope to establish itself and develop.
When there is a deficiency of vital force. When there is a deficiency of vital force,
languor, restlessness, a sallow cheek, a
hollow eye languor, restlessness, a sallow cheek, a
hollow, eye, when the appetite is poor and
the sleep is troken, it is time to guard the sleep is troken, it is time to guard
against the germ. You can fortify the
body against all body against all germs by the fortify of the
Pierce's Golden Medical Discovery it Dr. creases the vital power, cleanses the sys-
tem of cloging impurities, enriches the
blood, puts the sta tem of clogging impurities, enriches the
blood, puts the stomach and organs of
digestion and nutrition in working condi-
tion, so that the tion, so that the germ finds no weak or
tainted spot in which to breed. "Golden
Medical Discover" Medical Discovery" contains no alohol,
whisky or habit-forming drugs. Al its
ingredients printed on its outside wrapper.
It is not a secher It is not a secret nostrum but a medicine
OF KNOWN COMPOSITION and with a
record of 40 YEARS OF CUR record of 4o YEARS OF CURES. Accept
no substitute there is nothing "just as
good." Ask your neighbors.


GOMBAULT'S CAUSTIC BALSAM
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and all Sird all lameness, from Sparin, Ringone
and other bony tumors. Cures all skin
and and other bony tumors. Cures all skin
diseases or Parasites, Thrush, Diphtheria.
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get and be ready for emer-
gencies, Book, Treatise on the
Horse." free at drug stores or from
Horse, free at drug stores or from
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WAGON SENSE

Electrlo Handy Wagon.





## Get the Good Of Your Feed

Feeding a beef animal is one thing-getting the whole nutri-
tive worth of your grain and hay is another. Many feeders tive worth of your grain and hay is another. Many feeders
are hundreds of dollars poorer to-day than they would have been had they looked to it that their stall-fed steers got only what ration they could most fully digest and completely assimilate.
Dr. Hess (M. D., D. V. S.) is a practical stockman. Increasing the stockman s profit, by increasing digestion has become known as "The rect ills and to work out best results in every instance, by the use of a
proper tonic. Every man of experience knows that heavy feeding, continued long enough to "fit'" a steer, often defeats its own purpose by upsetting the animal's digestion. "The Dr. Hess Idea" worked out in daily practice

## DR HESS STOCK F\&'g

given in small regular doses in the grain rations, twice a day, strengthens animal digestion, so that
the largest proportion possible of food is taken into the blood and sent to maintain and upbuild bodily
the tissues. It contains not only bitter tonic principles for the digestion, but also iron for the blood, and nitrates necessary to cleanse the system. It makes a milch cow increase milk production, a fatting
steer or hog fit rapidy and economically, and puts a horse in the pink of condition. Dr. Hess Stock Food by improving the appetite increases the consumption of
he amount of nutrition wasted in the manure. Sold on a written guarantee. The dose of Dr. Hess Stock Food is small and fed but twice a day.
$\mathbf{1 0 0 1 \text { lbs. } \$ 5 . 0 0} \begin{gathered}\text { Except in Canada and extreme west and South. } \\ \text { Smaller quantities at a slight advance. }\end{gathered} \quad \begin{gathered}\text { DR. HESS \& CLARK, } \\ \text { Ashland, Ohio. }\end{gathered}$
$\qquad$ use Kille
Fre from the 1 st to the 10 th of each month-Dr. Hess (M.D., D.V.S.) will prescribe for your ailing
 her digestive apparatus in good running order. The one way to do that is to give regular small portions of Dr. Hess Poultry Pan-a-ce-a once a day in soft feed.
Dr. Hess Poultry Pan-a-ce-a is a guaranteed egg producer. It is a tonic-not a ration. It contains elements which aid digestion, make good blood, and free the system of poisonous dead matter. It is "The Dr. Hess Idea" that poultry can be kept healthy, active and prolific, even under the unnatural, conditions
resilting from confinement, , nd his Pooltry Pan-a-ce-a proves his theory true. Poultry Pan-a-ce-a is endorsed by poultry associations and is sold on a resulting from confinement, and his Poultry Pan-a-ce-a proves his theory true. Poultry Pan-a-ce-a is endorsed by poultry associations and is sold on a
written guarantee. A penny's worth feeds thirty hens one day.


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## GALLOMAY


GOOD PIG RECORD
have see
Michiganher 262
pounds,
pounds with
got for a spring lardKalamazoo Co. A Subscriber.


 capacity, Seventy Complete spreaders a day. ${ }^{4}$.
make you arice that sels the them. That price is th
lowest ever made ona
send it to you you trisk one cent on my spreader 1
The Gallowey Wy free.
or high-wheel wano and is is mante in 4 sizes, np to
70 bushels. My big, Free Spreader
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CENTS postpald ,
CENTS postpald
with Noso \& Ear Blados
foad all hogs rooting; gauges back
Ear Marke bladesinsure good job . Pig force

75
15


6 Days' Treatment Free Nr. Fir's New Cough \& Heave Remedy Let me send you six daya' treatment on approval
I Want to convince you that my new remed


DR. FAIR VETERINARY REMEDY CO.,


THE MICHIGAN FARMER.

THE LIVE STOCK MEETING. As announced in the Live Stock De
partment of our issue for Dec. 26 th, th partment of our issue for Dec. 26th, th igan Improved Live Stock Breeders' and Feeders' Association will be held at the
Michigan Agricultural College on Jan. 12 and 13, 1909. The official program for this meeting is now out and should be in
drop a postal
East Lansing,

## gram.

In addition to the features of the gen the published notice above referred to at the same same time and place. These in sociation, at which those interested in the breeding
dustry, the Michigan Shorthorn Breeders ciation of Michigan, the Michigan Jersey Cattle Club, the Michigan Guernse Cattle Club, the Michigan Red Polle
Breeders' Association, the Michigan Me Mino S
sociation, the Michigan Duroc-Jerse
Breeders' Association, and the Michiga
oland China Breeders Association.
on the afternoon of Tuesday same hou
different buildings about the campus, a
meeting of all Sections, which will con
for a
import
Present Status of Hog Cholera Preven


SamsonWindinio Double Gears and Center Lift


## PERCHERONS and FRENCH COACHERS <br> PERCHERONS and FRENCH COACHERS <br> W. S., J. B. E B. DUNHAM, Wayne, Du Page County, Ills.



Don't Have a Blind One "VISIO" Wonderful Discovery DISEASES of the EYE
successfally treated With sucessfally treaty
this NEW REMEDY
UTE CURE AN ABSOLUTE CURE for Moon Blindness, (ophthamia), Con-
junetivitis and Cataract. Shying horse
all suffer from diseased eyes. $\Delta$ trial will
convince
 money refunded if ur GUARANTEE; your
does not effect a cure. "YOU Pirections it
NOR FAM
 Visio Remedy Ass'n' ${ }^{\text {Dept. }}$ (Not inc.) ${ }^{1933 \text { Wabash Ave: }}$ Chicago, $1 i 1$. Hovey's Cough and Heave Powders


## OAKLAWN FARM

The Greatest Importing and Breeding Establishment in the World.
$x$ ceeding in numbers those of any other importer and including the tops of all the great reeding establishments of prize winners. Safest guarantee noted prize winners.
Most reasonable prices. Remember, that mether you want mares are stallions, colts ways has been headquarters for the best


FOR YOUR HIDE'S SAKE Have it tanned with the hair on for
coat, robe or rug. Send for price list The Worthing \& Alger Co.

FASTEST ICE CUTTER


Owl Brand Pure Cofton Seed Meal
 OALYES ${ }^{\text {Raise }}$



## BREEDERS' DIRECTORY.

cattle.

 bense. Clover Biossom Farm, Port $A$ natin, mich Tall callozesand






 TOP NOTCH HOLSTEINS




 Than hog. R. E. ALLEN, Faw Paw, Mioh RED POLLED BULLS, trom tot 15 monthaola

 JERSEY BULL CALVES I am gota giort on

Northern Grown Jerseys.
MARSTON FARM- JERSEY CATTLE. CHOICE JERSEYS. Arre Et. Ramberta, Yount

 Francisco Farm Shorthorns

 J. B. CROUSE STOCK FARM,

3 Shorthorn Bull Calves, pura brea Reg. Shorthorn Bull Calves for sale

## SHEEP <br> GO INTO SHEEP RAISING






for if I was not reliable and responsible thts pape
would not print this notice -order today and you
will get a flock you can be proud of. I started with
ROMEYN C. PARSONS, Grand Ledge, Mich Lincoln Sheep--Chester Swine. $\begin{gathered}\text { Either } \\ \text { sex. }\end{gathered}$

## Largest Hatches of Strongest Chicks

## DELAINE RAMS and SHORTHORN BULLS

Of the Very Finest Quality Prices Right.
Meadow Brook Stock Farm, Rochpster, Mich
ERDENHEMM FARM SHROPSHIRES EDWIIN S. GEORGE, Owner. Rams and Ewes for Sale. ROBERT GROVES, Shepherd R. F. D. No. 3. Pontiac, Mich.
$\mathbf{R}_{\text {selected }}^{\text {AMBOULTOT}}$ - Flock founded 1892 with 40 ewe $\mathrm{R}^{2}$ selected from one hundred registered ewes of the
best breeding possible. J. Q. A. COOK, Morrice, Mich SHROPSHIRE HALL STOCK FARM, Chotce yearling rams, and ram lambs, aliso year
Ing ewes and ewe lamb, type and quality our aim L. S. DUNHAM \& Son, Coneord, Michigan $\mathbf{S}_{\text {very }}^{\text {HROP. BREEDING Ewes bred to high class ram }}$
 HOGS.
ARGE Engilsh Berkshire Boars ready for service
 Berkshires $-A$ few good boars by King BERKSHIRE SOWS
 c. D. . Wowsovivur


 LARGE EMGLISH BERKSHIRES
 oo01, the breeding so much sought after. Plgs no
verfed, just the kind to do the farmer most good F. A: BYWATER, Memphis, Mich. Mortuan popw beraymes.
Chester Whites. I have 4 boars farrowed in Feby, March and Aprll farrow, elther Bex. Also a choolce
W. Wearling boar. WILSON, OKemos, Mlch.

 IMPROVED CHESTER WHITES.








 BARGAINS IN POLAND-CHINAS and POLAND CHINAS-RIIL bonea, poill francisco rarm poland.chinas.

 Nud MIChigan headouartrrs foi mic P. C. P. C. BOARS and SOWS

 LARGE ENGLISH YORKSHIRES.




## POULTRY mEES

TO GET FERTILE EGGS. Another hatching season is upon us,
and it is well to consider the conditions
gaverning the pronuction of eggs that
will produce strong healthy chicks. This
is the kind we are all after, rather than
the weak, puny ones that do not live
two weeks after birth, leaving the owner
wondering what is the matter. wondering what is the matter.
I wish that every reader of this paper haphazard way, would turn over a new
hapar this year and select one or two leaf this year and select one or two
breeding pens. Have each pen consist of 12 of the best hens or pullets in the
flock, and mate them with two or three flock, and mate them with two or three
vigorous cocks or cockerels. The use of
such breeding stock should bring a such breeding stock should bring a
marked improvement in the quality, and
also in the quantity, of the coming year's poultry crop.
When we speak of fertile hatchable eggs there are many things to be con-
sidered. The foundation of this year's breeding stock should have been laid at
this time last vear. Before artificial inthis time last year. Before artificial in-
cubation and brooding came into general use eggs were never set until late spring
or early summer. Then, if the stock was healthy, there was very little trouble
about fertile eggs for at the time these eggs were laid the hens were out picking
their living where grass and insects were their living where grass and insects were
plenty. But since the incubator has plenty. But since the incubator has
come into general use eggs are set during eggs are produced the hens are shut ine
the supply of green and animal food is

 fertile, eggs to incubate or our profit will show on the wrong side of the ledger,
as at this time eggs bring a long price

Feeding the Breeding Stock.
Wegts to incubate, and these egss"should be turned every day until they are put
into the machine. The supply of mash

Put a latch on each side of the top to hold the cover on and you have a very
convenient way to turn three dozen eggs. convenient way to turn three dozen eggs.
Put a few thicknesses of newspaper on the bottom and top to cushion the eggs when the box is turned. I have made some high enough to hold two or thre
layers, but they are more clumsy to handle than the box containing one layer The eggs should be kept in a cool place,
but not cool enough to chill them, or warm enough to start the germ.
Even with the best of care in selecting that are off in color, shape and shell that are off in color, shape and shell.
Do not use these eggs for hens or incubator, but pick out eggs that are as
nearly perfect as possible. Eggs from year-old hens will produce stronger and than will eggs from prom early hatches pullet is eggs from pullets, because the old. The beginner will find at testing time a start at the first test but the germ will be dead at the next test, not being strong reason of chicks dying in the shell. Eggs containing weak germs are not tested out necessary to help the chicks out of the
shell. Don't do this; if they are not strong enough to get out themselves
they will not live after you help them
cut, and you are running a chance of chilling other eggs. from certain hens that will all be infertile, especially if only one male has been my best breeding pens, emery night, keepfeeding them well. The extra fertility Kalamazoo Cockerels. W. R. FARMER. GUARD AGAINST EGG EATING.
This is one of the most costly and This is one of the most costly an
troublesome of the acquired habits by the accidental breaking of an egg in
the nest, and spreads rapidly among th flock until many of the eggs are purposely


Piles Quickly Gured at Home

Instant Relief, Permanent Cure-Trial Package Mailed Free to All in Plain Wrapper.

## Piles is a fearful disease, but easy to

 cure if you go at it right.An operation with the knife is dangerous, cruel, humiliating and unneces-
sary. There is just one other sure way to
be cured-painless, safe and in the privacy of your own home-it is Pyramid
Pile Cure. We mail a trial package free to all
who write.
It will give you instant relief, show It will give you instant relief, show
you the harmless, painless nature of on the way toward a perfect cure. well
onen you can get a full-sized box


320 Acres of Wheat Land in western canada (60 ache Will Make You Rich

 Mat


$\qquad$ $=$ $-2$
$\qquad$



CHICK SAVING COOP


Hatch Chickens by Steam:
 SPECIAL FOR THIS WEEK





 SILVER, Single Comb Black Minorca Cockerels for male. Breeders. Blacke Minorca. Buff Orptngton, R.
 Doas.
FOX AND WOLF HOUNDS





## "Mandy dece

is the only inc 1 bator on the market in which $\kappa$ conditions can always be made which insure a What is needed at hatching time is a strong chick and a weak shell. We absolutely disregard outside conditions of climate or altitude-
offer you an incubator where favorable hatching conditions can always be made at the eggs. Letters 1 ike this herewith prove our machines to be the
best
ontinuous hatchers - same results all the time-and s a part of our guaranty, We ofter you a certainty;
others a possibility
Which do you prefer? GEO. H. LEE CO., 1158 llarne St., Om Hg
their hunger before they have secured the adequate amount of exercise. Then
warmed whole corn or wheat may be given at night. It is not necessary that iong as it is not moldy or spoiled. If the corn can be exchanged for a cheap grade a large proportion of cracked kernels and perhaps some weed seed, the exchange should prove very profitable. Clover leaves or the chaff from clover hay would also make a valuable addition to the ra-
tion. Being rich in protein it would take the place of some of the grain, thus obviating the necessity of feeding so much corn. Corn is very starchy, and thereto feed it pretty liberally the hens should be watched closely and the moment they show a tendency to become fat and lazy the allowance must be reduced. As in is essential to continued keenness of appetite, and with this fact in mind the value of fresh table scraps containing vegetable and animal matter relish all the fresh bones that you find it possible to crush or chop up for them, and the results from thus utilizing them will pay well for the labor involved.

MICHIGAN STATE POULTRY SHOW,
The 15th annual show of the Michigan
State Poultry Association will be held in the Light Infantry Armory, Detroit, be-.
ginning Jan. 9 and closing Jan. 14. This
promises to be the banner show of the promises to be the banner show of the
organization since the interest of Detroit
business men has been more generally enlisted than ever before. Last year's
splendid efforts in getting up a superb splenium, list have been outdone and
premium
exhibitors this year will compete for more large and valuable prizes than at
any preceding show. Classes have been
provided for about everything that wears feathers a uniform cooping and bars its own officers All varieties will be judged by the score
card with the exception of S. C. Rhode
Island Reds, which will be judged hy Island Reds, Which will be judged by
comparison, The Detrot Pigeon Club
will co-operate with the Association in will probably surpass anything in that
line ever seen at a Detroit. show. Fur-
thei details mar be had by addessing
hep Secretary Jo










 ther kidney trou ac of the bee, and enters the digestive or immediate assimilation, A more gen ho are troubled with the candy problem. n this connection is the fact that the

THE DAIRY

RELATION OF ONE CREAMERY COMMUNITY TO ANOTHER.
In my travels over this state in the interests of a business proposition connected with creameries, I am making a close
study of the dairy business and I find study of the dairy business and I find
many pleasant sides to it, and also many many pleasant sides to it, and also many
ups and downs. I think it a good deal ups and downs. I think it a good deal like I once heard a minister say in a "hell" on earth here below, and I think it is true. I believe that many of our creamerymen are doing the very same
thing today. Our creameries are far between. We are not crowded in any place at all for territory to support, and support properly, a good-sized creamery. tory that this man or that man is coming into the territory soliciting cream and offering higher prices for it. In fact, they are offering as much as a cent above Elgin quotations for butter-fat and paying part of the shipping or transportation The question is, is that sort of thing necessary, and can such a man make any money. If a man has an unlimited but if he has not, and is handling do it, week or more old, and selling all on onsignment, he will sooner or later learn
hat he has a proposition before him which he cannot honestly come out on Now, who is to be cut? Is it the com-
Now,
mission man? Emphatically, no. If there

$$
\begin{aligned}
& \text { As I am a young farmer I would like } \\
& \text { your valuable advice in regard to feeding } \\
& \text { dairy }
\end{aligned}
$$ s any cutting he has the first chance does it up properly, when he makes a cut

and leaves the creameryman between the paying more than he could afford withand so he will have to get after the tes sale. communities where we have farms and cows of a sufficient number to supwhere these institutions should be located. Then each man should keep within
his territory and, instead of increasing neighbor, he should go out to each farm, his dary cows by making tests and by
proper feeding. Tell him about the cost
of keening and the weeding out of ungrofitable cows and replacing them with ness by getting more of the right kind of
cows on his farm and the farmers will gin to realize there is some money in ime there can terested in it. At the same the care of the millk and cream from the
time of milking until it is delivered to
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ story, and Mr. C says. something else.. Hee
begins to doubt them all and finally deselect Herefords and cross them with
Galloways, letting the calves churn the
butter, because there is no money in the
dairy business. I have these things repeated many
times to me just as I have given them Last spring when we were selecting Holtions a man sent me word that he knew it was a calf from a Hereford dams that for the dairy business. new one on me and spend time and money and fellow knew or not. 1 have found in my territory there was plenty of work for
me along this line without going into the other fellow's field. I want to double the product of the cows that we have
today, and that should be done before we can say that we have accomplished much. hope this coming season I shall be able to do more work in the field than hereman who can make the butter up for me and that I can find time to take the farmto time and assist them in overcoming their present difficulties and in making two blades of grass grow where there had only been one growing before.
condensary would work along these lines $t$ would only be a matter of a few years when we could come close to the lead in dairy products as well as in producing sugar beets, potatoes, fruit or anything else, and we can grow all of these. I don't think there is a state in the union that is better adapted to a general line of farming than Michigan. The farmer who practices dairying can arrange his day in the year, can have income every to none, and have the labor problem solved by being able to employ a man for twelve months of the year instead of for
only eight.
The first secret of double our product in the present terri-
tory, improve its quality, and then mar-

$$
\begin{aligned}
& \text { ket it to the best advantage. } \\
& \text { Oceana Co. Emwin K. Smith. }
\end{aligned}
$$

A VERY GOOD RATION FOR COWS dairy cows. I have 10 cows and sell min
in the city. My mode of feeding is as fol
laws: Each cow gets a good feed of clover hay at noon. As As
I have no silo, I feed stock beets. Each and-cob meal, 2 qts. of wheat bran an
a pt. of cottonseed meal twice a day.
also give one tablespoonful of stock foo I would like to know whether the ra
is right or whether I can improve on
I have the beets. corn, cornstalks a
clover hay. Would it pay me to bu a silo for io cows. I have a small farm
of 68 acres, 65 acres phow land and three
acres wood lot, which I use for pasture Oakland Co,
There is very little to criticize about There is very little to criticize about
this ration. Cornstalks and hay make a good roughage and, as he has no silo, the succulent food in the ration. Nothing
could be better. Corn-and-cob meal, udge that he is feeding them in about sults. I suggest that he weigh his feed


## MONARCH FEEDMILLS



DAIRY FEEDS for Tmmedato

## DA Cotton Seed Meal © suchipment.

##   Iazallicorn Fia <br> Iuten Foped @os Fea.).  <br> BOWSHER SWEFP MILLS




JAN. 9, 1909.
HOW AND WHY THE FAT CONTENT
The variations in the tests of milk of The variations in the tests or milking to milking or from-owners suspect. There seems to be no uniformity in this variation, except that the quality of the milk produced generally improves with the progress of the period of lactation; even this may not be noticeable, however, except when at different stages during the lactation period are compared with each other. a number of cows thru their whole period of lactation, the results obtained have
seemed to warrant the following conclusions in regard to the variations in the is believed that these conclusions allow is believed that
of generalization.
of generalization. milk tests about the same at every milking. Such cows genfrom day to day.
2. Other cows give milk that varies in an unexplainable way from one milk-
ing to another. Neither the nforning nor the evening milking is always the richer, and even if the interval between the
two milkings is exactly the same, the quality as well as the quantity of milk produced will vary considerably. Such
cows are mostly of a nervous, excitable temperament, and are easily affected by conditions.
3. The milk of a sick cow, or of a cow in heat, as a rule tests higher than when milk yield generally decreases under such
conditions; marked exceptions to this rule 4. Starved or underfed cows may give
a small yield of milk testing higher than a small yield of milk testing higher than
when the cows are properly nourished, probably on account of the accompanying feverish condition of the animal. The
milk is, however, more generally of an abnormally low fat content, which may be readily increased to the n
of think, white the solids not fortituent of mithin comparatively narrow limits vary within comparatively narrow limits. The
summary of the analyses of more than 2,400 samples of milk, ealculated by varies from 3.07 to 6 per cent, that of
casein and albumen varies only from 2.92 to 4.30 per cent, or less than 1.5 per cent,
and the milk sugar and ash content increases but little (about 0.69 per cent)
within the range given. a very erroneous impression of the quality sample taken from four or more succesduces at the time of sampling. The variations that may occur in testing the milk of single cows are illus-
trated by figures obtained in an experiment made at the Illinois station, in
which the milk of each of six cows was whole period of lactation. Among the and Holsteins, the cows being from 3 to 8 years of age and varying in weight from
850 to $1,350 \mathrm{lbs}$. During a period of two months of the year, the cows were fed
a heavy grain ration consisting of 12 lbs. bran, and 6 lbs. of linseed meal per day per head. This system of feeding was
tried for the purpose of increasing, if possible, the richness of the milk. The
influence of this heavy grain feed, as well as that of the first pasture grass feed, on the quality and the quantity of
the milk produced, is shown in the following table, which gives the complete
average data for one of the cows. The
records of the other cows were similar records of the other cows were similar
to the one given, in so far as variations Average Results obtained in Weighing and

The average test of this cow's milk her whole period of lactation was 3.8 er cent of fat. Twice during this time nd milk tested as high as 5.8 per cent ests of low as 2.7 per cent, while tained a number of times. The averab weight of milk produced per day by the ow was 14 lbs ; this multiplied by her verage test, 3.8, shows that she produced on the average .53 lb ., or about $1 / 2 \mathrm{lb}$. of
butter-fat per day during her lactation period. If, however, her butter-producing capacity had been judged by the test of her milk for one day only, this test might her milk tested 5.8 per cent or when it was as low as 2.7 per cent. Both of
these tests were made in mid-winter when the cow gave about 16 lbs . of mill
A sufficient number and variety of tests f the milk of many cows have been made o prove that there is no definite regularity in the daily variations in the rich-
ness of the milk of single cows. The only change in the quality of milk common to all cows is, as stated, the natural rying off, and even in the cows are improvement in the quality of the milk mprovement in the quality of the milk sometimes does not occur until the milk
yield has dwindled down very materially.

SIZE OF SILO FOR 100 HEAD OF
I would like to know how large a silo I would have to build to hold enough ensilage to feed 100 head of cattle for
seven or eight months. One half of them
are milch cows and the others range rem calves to three-year-olds. I want
to know all the ensilage that would be 3

## DE LAVAL CREAM SCORES HIGHEST at great dalir show

At the great National Dairy Show, held recently in Chicago, cream skimmed with DE LAVAL separators won all highest honors. The cream exhibits were made in two classes and the winners in each
were as follows, all being users of DE LAVAL hand were as follows, all being users of DE LAVAL hand separators:

MARKET CREAM
1st Prize, Gold Medal, G. C. Repp, Ohio
2nd Prize, Silver Medal, W. R. Newberry, ohio CERTIFIED CREAM

Score $98 \frac{3}{4}$ Score $98 \frac{3}{4}$
Score 94

1st Prize, Gold Medal, Tully Farms, New York
Score $94 \frac{1}{2}$
United States was under the direction of the Dairy Division of the Repp's winning exhibit in the Marketculture, Washington, and Mr. perfect and given the highest score ever awarded by the Dairy Division. For the past twenty years butter made from DE LAVAL cream the largest 1908 highest honors in every important contest. Sixteen of butter and now comes this sweeping victory for DE in the big Dairy Show contest, which only goes further to prove that DE LAVAL machines are head and shoulders above every other skimming device in every feature of separator use.
A DE LAVAL catalog tells why DE LAVAL cream is always superior. Ask for it today or, better still, let us demonstrate the merits of a DE LAVAL separator in your own dairy.

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| :---: | :---: | :---: |
|  |  |  |
| PHILADELPHIA DRUMM \& SACANMENTO STS SAN FRANCISCO | NEW |  |



Why the "Segment-Ground Process Makes Sawing Easy
The Atkins "segment-ground" saws taper from tooth middle. Hence the blade makes room for itself so that it
is almost impossible for it to "get stuck" in the wood.
This patenter


## ATKINS $\underset{\substack{\text { cross } \\ \text { cut }}}{\text { SAWS }}$

 Hzmex
E. C. Atkins \& Co. Inc., Indianapolis, Ind. Largest Exclusive Saw Manufacturers in the World.

## TO EVERY FARMER IN MICHIGAN KEEPING COWS

## $\left.\begin{array}{l}\text { MICHIGAN FARMER } \\ \text { HOARD'S DADARYMAN }\end{array}\right\} \begin{aligned} & \text { Both One } \\ & \text { Year for }\end{aligned}$

## U

NICORN DAIRY RATION ${ }^{\text {and }}$ Rov food food


The Michigan Farmer ESTABLISHED 1843. THE LAWRENCE PUBLISHING CO., EDITORS AND PROPRIETORS.
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| :---: |

DETROIT, JANUARY 9, 1909.
CURRENT COMMEN The Potato the year three is a great part of both holders and the potato
ter months. dealers to "bear" the market. Frequent tor, yet there has been a steady and
comparatively free movement of the late comparatively free movement of the trad
corp since the season opened at grad
ually hardening pries and with only the
occasional weakening of the market one factor which has undoubtedy oeper.
atead to hold up the market is the fact
that the producers. rather than the deal-
ers have prices. Of course there are always a
goo. many potatoes. in. the hands of
country dealers, but the stocks so held acording to the most reliatle eavices.
This may properly pe considereadias an
encouraging factor in the situation, as the market as rapidiy in case of a sharp
advance as would be the case if a large the hands of dealers who simply waited
an opportunity to move them at a good

 But in a season like the present, when there is a shortage of home grown pota-
toes and a big foreign crop, the impor market which should not be ignored by of undertaking a thoro analysis of this factor at the present time. Without
doubt there have been unusually heavy importations of foreign stock for the season of the year, aggregating as much as
400,000 bushels in a single week. advices from New, York, however, sodi-
cate that the operations in foreign stocks
rity that the average cost of the foreign stock laid down in New York has ranged the average price received for the stock is said to range from $\$ 1.75$ to $\$ 2$ per bag, with occasional sales up to $\$ 2.15$ and a
good many as low as $\$ 1.50$. This variagood many as low as $\$ 1.50$. This varia-
tion in price is said to be due to the poor qualit signments, the tubers being damp and dug and stored in wet weather and having in some cases deteriorated in transit The arrivals for last week were small in comparison with previous weeks, aggregating only a̧bout 30,000 bags, and arrivals for the next fortnight are very veather in England, Scotland and Ire land, which countries a large part
of the stock arriving in New York come and where severe blizzards and storms fering with traffic in some sections. The best stock is said to come from England, selling at $\$ 190$ per 168 week these were parison with 80 cents per bushel choice Maine stock. At Baltimore, on the other hand, the best German potatoes
are reported as selling at $\$ 2.25$ per bag, or about 15 cents more than the average run of domestic stock. Another factor trade in foreign potatoes is an advance in freight rates which was put into effect
by the steamship companies on importations from England, Scotland and Ireland, which went into effect on January Heretofore the rate on potatoes from
these countries has ranged from 25 to 30 cents per bag, the advance announced
being from 5 to 7 cents per bag. This advance, together with the previous trend
of the business would seem likely to curtail receipts to some extent for the imBut any attempt to analyse the situa-
ion would be incomplete without a study of the statistics of imports for other twice since 1850 have the imports of for-
eign potatoes exceeded $8,000,000$ bushels. and that only twice during the last
twenty years have they exceeded $5,000,000$ bushels, the last year of heavy imports
'being 1901, when they aggregated $7,656,162$ bushels. In that year, however, our crop Was approximately $80,000,000$ bushels short
of this year's crop and the average price was nearly or quite 40 per cent higher.
But the report of Secretary Wilson for
the current of $275,000,000$ bushels at 5 per cent below
the five-year average, which means that would have to be practically double the up to the five-year average, while imbring them up to the aggregate for 1901 . in any previous year have after all been
 they are unloaded.
In the meantime the market for domes-
tic stock is improving in many centers of consumption, and values are not being
marked down to any derge e at onints
where stocks are ancumulating. In New week and considerable stock moved at selling up to 80 cents. Maine stock has,
as usual, been the favorite in that market.
 are in the hands of growers who ar
generally holding for an advanee. .n Chi Chi
cago a better tone is also reported needed for immediate use. A good many
potatoes from Colorado and other west-
ern states having a good crop have been shipped to Chicago, but reeeipts from that market. On the other hand, the marke expected when the season for handin So, taking the situation as a whole, with an undoubted shortage, and with the bulk
of the holdings in first hands, with an even market which shows a gradual improvement, with other foodstuffs generally so high as to prevent their substi-
tution for potatoes, with the cold and favorable conditions for heavy movement
tion in all lines, there would seem to be no occasion to fear a heavy shrinkage in to favor the holder for a moderate ad vance over present values, but present prices are attractive and may be expected to bring out sufficient offerings to supply immediate demands, which will
not favor any immediate sharp advance. in fact, all conditions would seem to market, more than usually devoid of the speculative element, and consequently insuring the producers of the country a larger proportion of the money paid for the product by the consumers than they

Co
o-Operative Movement. are planning ssocu co-operative plans find based on original and different ganized. It is planned to call a general convention of the farmers of Long Island together with bankers and business men under the auspices of the Long Island League. Commenting upon the plan, the President of this League outlined theme cheme, which is in brief as follows:
Capital will be solicited from well-
oo farmers and business men to build a aig cold storage warehouse, to be man-
aged by an office force selected by the association. The plan is to issue warehouse receipts for all products delivered
o same at about 50 per cent of the value of the products, as shown by current quotations on the New York market, these receipts to be negotiated by the banks
and affording the producer an immediate price which would approximate that re-
ceived from commission men under present conditions. The warehouse associa peddlers the products brot by members of the association, and at stated periods the profits derived over and above the
purchase price would be divided among
those to whom the warehouse certificates were issued in proportion to their
amount. The originator of this scheme
explains that in outlining the plan he explains that in outlining the plan he
has followed as closely as he could the plan pursued by the meat packers in
handling their warehouse and refrigerator plants.
Already there is in operation on Long Island an organization of farmers known
as the Long Island Potato Exchange, which was started as an experiment, and been exceedingly satisfactory. Member-
ship in this Exchange is purchased by over to the Exchange, which pays a uni-
form price for them, holding and dispos-
ing of them to the best advantage. It is authoritatively stated that upwards of
$1,000,000$ bushels. of potatoes have been handled by this Exchange this season,
the first of its existence. The profits of the business accrue to its stockholders
as in the other plan. be watched with much interest by farm












nsecticides. vides for "preventing the
portation of adulterated or misbranded
nd other insecticides and for regulatingtraffic therein." This bill is of particula
interest to practically every farmer, a all use insecticides or fungicides in some Inasmuch as practically all of these
states it is a better way to control them by national rather than state laws, as the great bulk of the product enters into interstate commerce, so that the national
aws would apply in its control. In re. ent practice the number of insecticides and fungicides have greatly increased, and analysis has shown different brands or same to vary materially as to strength and purity. It is obviously important that the pe products be standardized so that the user may know just what he is get-
ting when he purchases them, and thus know what strength he should and thus given effect in their application With out question, inspection and analysis which would show the exact and analysis these goods would tend to their standardization and would be of distinct value to the users.
At a conference of manufacturers, en in New York last June, the original bill, which was introduced at the last session with the rengres was carefully discussed and mendm tecommendation or numerous erence. While there was by the con difference of naturally of the provisions of the bill its endorse ment by a body of manufacturers and sicentists, who might be considered as he official representatives of the consumers, should insure its early passage which has been a subject of frequent discussion among horticulturists and others who are large users of such goods. In advise your congressman of your wishes and opinions in the matter.

HAPPENINGS OF THE WEEK.
Foreign.
Now that communication has been re-
tored between the civilized word and sored between the civilized word and
Southern Italy, the former disconnected
reports of the terrible calamity resulting reports of the terrible calamity resulting corrected, but only to show the tragedy
to be one of the worst of history. The estimated number of killed is far above
the 100,000 mark and is generally placed
around 200,000 . Whole towns and cities were left complete wrecks by the shoeks.
Messina and Reggio, of Sicily appear to
be the scenes of the greatest damage and be the scenes of the greatest damage and
the most suffering. Last, Sunday apother
strong shock occurred in the southey stegil
part of the island and a number of out
ings collapsed but the fatalities aree believed not to be large;
however, the people are terrified and re-
fuse to enter their homes for fear that
another shock will topple them, and inanother shock will topple them, and in-
stead are camping in the streets and
fields. From all over the world, food, medicine, clothing and funds are being
rushed to help the unfortunate peope.
The American auxiliary cruiser was orwas expected to arrive the disaster and
this week with reart of
thef. Last Sunday was ver and meetings were held in cities
 The American battleship fleet arrived
at the Suez Canal on the morning of
January 3. Since leaving Colombo the fleet has gained two days over its sched-
ule time. Arrangements had been made to make a short stay at the Canal but
the proposed plan of sending the ships
to the scene of the disaster in Italy has
caused all caused all haste in coaling the vessels
and hurrying them on to the scene should
their assistance there be needed to lieve suffering and prevent pillaging.
The prohibition by the police of
sacrifice of cows. one or the rites of the Mohammedan religion, caused a riot when of the city of Calcutta in deference to
the order. Troops were called out to to fire into the crowd, which resulted in
killing. several and wounding about 60 The grand councillor and commander-
in-chief of the forces of China was re-
cently removed and a successor chosen. The removal is not generessor chosen.
cieved among the foreign diplomats at
Peking who have been in session twice o the government. They bepresentation
oreve the
oreign trade will suffer from the change. A number of arrests were recently
made at Tsarkoe Selo. Russia, in conplot against the imperial family.
Ex-President
Eastro, of Venezuela,
was suddenly stricken worse a few days ago and taken to a sanitarium in Berlin,
Germany, where an operation will be Because there had been no reorganiza-
tion of the naval department of the Rus-
sian government the committee on de-
fense of the fense of the Duma refused to allow the
fum the At the last session of the English parsioning a persons over passed for pen- 70 years of age.
On the first of January there were 700 , 00 applicants for the benefit offered by
the statute.
Postmasters are made the statute. Postmasters are made
agents of the government to pay out
moneys to persons meeting the requirements of the law. Light earthquake shocks were felt in
the city of Algiers, Algiera, last Friday.
No damage is reported. The major part of the Chinese section
of Cebu, Philippines, was destroyed by

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| lutely free. Send ten cents to cover postage and | and power spray pumps, nozzles and ap- |
|  | pliances for all uses are illustrated in |
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|  | adapted. <br> Studebaker Bros. Mfg. Co., South Bend, |
|  | Ind., are mailing a Farmers' Almana, |
| Sulte F, 1908 W. Washlngton Street, Indianapoils, Indiana, ${ }^{\text {a }}$, ${ }^{\text {and }}$ ing a large amorecast for 1909 contain- | and Weather Forecast for 1909, contain- |
|  | upon a great variety of subjects, and incidentally referring to their complete line of vehicles, harnesses, bolster springs, |
|  | etc. <br> Burpee's Farm Annual for 1909, |
|  |  |
| PATENTS ALEXANDER \& DOWELL, At- the Best Seeds that Grow," as they refer torneys at Law, 918 F. St., Wash- to their large line of farm, garden and ington. (Est. 1857.) Procure Pat- |  |
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|  | ałog. |
|  | pedia for 1909, published by the International Harvester Co., of America Chicago |
| DATENTC Watsou E. Coleman, Patent Attorney, Wash1ngton, Dighest refs.vice free. Terms low. Higher | U. S. A., is replete with scientific facts and useful information of wide range and, incidentally, it describes the line of goods manufactured by this company for farm |
|  |  |
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fire last week. Damage amounted to
about $\$ 250,000$. National.
A conference. Will be held Washing-
ton, January 25 and 26 for discussing A conference, will be held in Washing-
ton, January 25 and 26 for discussing
problems connected with the dependent children of the country. The conference
was called upon the initiative was called
The new battleship Delaware will be
launched at Newport News, launched at Newport News, Va., the early
part of February. This vessel is the part of February. This vessel is the
first of the Dreadnaught type and with
her sister ship, the North Dakota, which her sister ship, the North Dakota, which
is now under construction will be the is now under construction why
largest in the United States Navy,
Official reports of the first season's tivation of the Burbank thornless cactus
show the experiments to be successful show the experiments to be successful
and there is great faith that the plant
will prent and there is great faith that the plant
will prove a boon to much of the western
desert country. In anticipation of a targe increase in
the demand for carrying freight and pasthe demand for carrying freight and pas-
sengers, railroad companies are rushing orders for new equipment and for repair-
ing rolling stock and rads.
A movement is started for the erection A movement is started for the erection
of a large central wool storage house in
Chicago. The parties interested in the Chicago. The parties interested in the
enterprise will soon have the work under enterprise will soon have the work unde
way. Already about $25,000,000$ pounds of
wool are pledged by wool are pledged by growers located in
western states. Abraham Lincoln's 100th anniversary
will be celebrated in Chicago thruout the week beginning February 7 . The by-law to reduce the number
hotel and saloon licenses in the city
Toronto from 150 to 110 was carried the recent election The United States supreme court decided Monday that the Chicago \& Alton railroad was guilty of paying rebates to
a packing concern. A $\$ 40,000$ fine was
On Monday a bill appropriating $\$ 400,000$ for the erection of an embassy building in Paris, France, was passed by the U.
S. Senate.
Congress voted to send the Italian sufferers $\$ 500,000$ in money besides $\$ 300,000$
worth of provisions.
The worth of provisions.
The total annual fatality of wage earn-
ing men in the United States is about 35,000 . It is estimated that this number
could be reduced by one-third if rational methods of factory inspection were uni
versally adopted thruout the country.
The first division of the American fle The first division of the American flee
now located at the Suez Canal has bee
ordered to Naples where it will sail im mediately and offer the service of the,
ships and the men to the rescue of the
earthquake sufferers. CROP AND MARKET NOTES.
Grand Traverse - co., Jan. 4.-We are
having fine weather; winter grain is well


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## HORTICULTURE

SOD MULCHED TREES
The apple orchard that was set last spring, partly in sod and partly cultivated, a catch crop of potatoes being grown, has made a good growth the past
summer, and as yet there is little difference between the trees in sod and those in cultivated ground. The sod trees were mulched as soon as set, with coarse
manure and have been given another manure and have been given another supply of trash from the strawberry beds was cut for hay in June, and the after will make a rood trap for the snow Most of this ground is a side hill and there is little danger of washing under this system, but if the mulching is neg-
lected after a time and the grass is continually removed the results may be unsatisfactory. The ease with which trees handled in this manner may be neglected is a strong argument for cultivation. potatoes this season, and will be set to strawberries in he spring. The trees are manure has been applied between them will be given late in winter or in the spring, and the ground disked for strawThe trees set some three years ago, some on cultivated ground and some on
sod land are both doing quite well except for one variety, which did not do so well
from the start, and many had to be replaced, but I think the cultivated trees
as a whole have the lead in size and ferent, so it is difficult to compare the large and thrifty as the Grimes and Wagners on sod ground are not doing as well and are much behind Wagners set
on cultivated ground the year before. good results with either system if fol fail with either if neglected Calhoun Co

STARTING AN APPLE ORHARD.
being prepared for planting, all broken and bruised roots should be cut off cleanly will start quicker from the roots when they are properly pruned before the tree is planted.
We must keep in mind the fact that these young trees as they come from the richest have been grown in the very geneous manure usually with a nitrouse stable manure near the roots, would only be increasing the difficulty. What will promote a need is a fertilizer that will promote a good growth of stron
wood, fruit buds and seeds. These ments are potash and phosphoric acid The potash will promote the growth or the fruit set having a tendency to make starch in the fruit, and to a degree at least, heighten the color of the fruit. The phosphoric acid will perfect the seed, without which no tree can bear choice fruit, and also improve the quality.
We have made a practice of using part muriate of potash and two parts of fine raw bone when setting out grape vines and apple trees. This we work into the soil around the trees at the rate of orchards are older and have exhausted a large proportion of the available plant
food in the soil many successful orchardists practice sowing about 400 or 500 pounds of this mixture annually. When
these minerals are used as a fertilizer stable manure or legume cover crops can be used with safety, but to apply supply the trees with too much nitrogen would encourage a growth of inferion
wood that would winter kill. Always broadcast stable manure when applying If we plant small crops like potatoes, tomatoes and other truck crop in the trees and the land can be made to pay a very fair income. However, we must crops on the same soil and fertilize accordingly. Some orchard authorities claim that we should cultivate the trees but not grow any crops in the fnter-
spaces but that method is
not true ecoonmy. When a cultivated crop


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Lhe If you will write me a postal and tell me where you want to the go, I will tell you the cost of a ticket, and will sond you a
complete map-schedule, showing time of trains, togetker with SouthwesT nicu

## The

 be shut in by snowstorms. A hard freeze is unknown to him. Besides avoiding the discomforts and hardships of a long, cold winter he alsavoids the expense of one, for he does not have to build warm shelavoids the expense of one, for he does not have to build warm she
ter for his stock. Neither does he have long, costly feeding
 year. He does not have big fuel bills, either. Most days
of a Southwestern winter the windows are open and the
farmer's wife goes about her her The Southwestern farmer can make money a year, while you are compelled to be idle month at a time. All this tells in the bank account at the end of the year. Why don't you buy
a farm in the Southwest and enjoy life? Good land can be bought now for $\$ 5$ to $\$ 25$ Good acre. Next year it will cost more. It will be dollars in your pocket if you Investigate this Southwest question now. Go down there and look around. It will do you good to get away from the cold for a short while.
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tunitiies waiting for you there and will open JOHN SEBASTIAN, Pass. Traffic Mgr 1862 Lrisco Building, St. Louls


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## THE MICHIGAN FARMER.

 limbs. Prune so that the fruit bearing surface will be evenly distributed over heavy enough crops of apples to brealk them down if the fruit is evenly distributed over the whole surface of the tree.
Spraying is essential to successful appie growing and to keep the young trees free from disease and insect pests they must cure-all for bad management but simply one of the essentials of successful apple growing. When we find an orchard that
has been well managed we usually find very proftah
New York.
W. Milton Kelley.

## The prime essentials for a profitable

 handling of this plant are location, a light, sandy soil, and a system of thorodrainage. In selecting a location it is well to understand that this edible differs considerably from its associates in the
vegetable garden, in various and importvegetable garden, in various and ible feature is its place of first rank, as the ear liest heraldry of spring from the open
garden products for the table, while its garden products for the table, while its value at this season are of inestimable
assistance to the grower, in providing as it does, available money on hand to meet tra help during seed and planting time. If proper precautions are given to insure
success at the planting there is no reason why it should not become the staple article of supply in an market gardens
of the country, for its simplicity of culture and staying powers of supply in


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Perhaps you don't know how much work is required of your kidneys and bladder or of how much importance they are. Do you know that on thes Many an apparently strong, health an or woman has been stricken with disease only to realize too lat what might have been prevented with Some of the early symptoms of weak kidneys and bladder are lumbago, rheu or dull ache in the back, joints or mus gestion, dizziness, you may have a sal low complexion, puffy or dark circles you had heart trouble, may have plenty of ambition but no strength, get weak and waste away.
If you find you have some of the symptoms mentioned, you need then a remedy that will reach the seat of the
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$\qquad$ ing all about the kidneys and bladder Detroit Michigan Farmer. For sale at

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 spring. By regarding primarily the inte

##  <br>  <br>  ground, 36 inches, and if with an inclina- tion to the soggy, 40 inches. The planter <br> 


plants, thus 95 foot rows will give $71 / 2$
inches at each end of the row, with 12 plants placed nine inches apart between the ends. Having determined the length, run the plow to its utmost depth two or trench with hand shovel. Then from the lands, fill in for a 30 inch drain, 18 inche of these, placing the larger in the bettom
of trench and use the smaller (base ball of trench and use the smaller (base ban size), to fill up crevices. For a 36 inch
depth allow two feet of stone, in a 40
inch depth especially if inclining to the soggy, insert a two inch tile and connect
by trap to main surface drain, then fill Over the stone a layer of rough stable
manure is firmly trampled under foot six the depth of six inches, and for the trench soil is thoroly mixed with wel
eled in to the depth of three inches, with the centre slightly elevated to receive roots spread out, as if designed to the process of weather drying. Having se cover over gently with the remaining soi ter one quart of wood ashes over each

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& \text { years, by which time the crown roots will } \\
& \text { have become so tighty interwoven that }
\end{aligned}
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& \text { therefore, should be where there is the } \\
& \text { 1east tikelilood of interferene with tho }
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Three-Year-0ld Vines for $\$ 1.00$

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## HOME ND YOUTH

GRANDDAD BY IRMA B. MATTHEWs.

Whenever we have a snow-storm,
No matter what kind it be,
Granddad always has some kind
Of a rhyme to say to me.
If it happens to be just awful light
And as fine as it can be, head
Granddad always shakes his had
And then he says, says he:
"Snow meal, snow a good deal."
And if it is damp, the kind of snow
Us boys like to see,
Because we can pack it hard to thro
And have a battle- Gee!
But that it lots of fun!
We build big forts and make snow m
For we know it will not last,
Cause Granddad he says then;
"Damp snow, come andego."
And when it comes down in great bis
flakes
Grama says, the old woman in the
sky
Is picking her geese, she thinks,
And then is letting the feathers fly.
But Granddad only just looks wise,
As tho she did not know,
And then remarks, as he looks at me,
And then at the falling snow:
"Snow feathers, clearing weather."

## by haripiet lummis smith. A marriageable mamma is a responsibility. This realization had been grow-

 ing on Hildegarde since the days whenan unscrupulous admirer had bribed he by means of peppermint drops,
smuggle his notes past the argus eyes
Aunt Sophia. By the time she lost first front teeth she had passed beyond this venal age, and was quite accustomed
to sitting in the parlor to play propriety, alertness serving as a check to the most
impetuous of wooers. At sixteen Hildegarde was an ideal
chaperon, possessing a mixture of finesse been incapable, even in her best days. covered that retreat may have a strategic
value. When all else failed to discourage an ineligible but determined suitor, Hil-
degarde and Aunt Sophia packed up and yet the prospect of a new field always helped to reconcile her to the loss of an
old admirer. "Only don't pick out one of those dreadful places where nothing
happens," mamma would stipulate. "And self, Hildegarde. They musn't be
wrinkled.".
The latest cause for flight had been an ex-newspaper man, who, because of
ill-health, was taking a long vacation
and had nothing to do but to tell mamma funny stories all day long. It was a de-
light to watch mamma as she listened to wide like a child's, in pleased expectancy,
$\qquad$
likes is a man that will make her laugh
all day, and that is a pretty worthless kind, to my way of thinking." worthless ext ours," said Hildegarde dreamily. "He is older than mamma, of course. His hair is quite a little gray; but O , his face is so kind, and he seems so fond of
his flowers! I couldn't help thinking what a comfort it would be if mamma were
married to him, and we could stay here quietly for the rest of our lives," "He probably is married already and has six children," said Aunt Sophia. "And I guess you must be out of sorts
to get such notions. Better take a little to get such notions. Better take a little quinine when you go upstairs.'
But the maid whom they engaged next
day, and who was only to day, and who was only too happy to en-
lighten them on the subject lighten them on the subject of their neigh-
bors, relieved Hildegarde's mind on this bors, relieved Hildegarde's mind on this
point. Mr. Maxwell was not married point. Mr. Maxwell was not married.
He was 2 scientific gentleman who wrote He was ? scientific gentleman who wrote
books. The maid did not know what the
books were, but since they were not in - books were, but since they were not in they must be very wise and very stupid.
Beside this, Mr. Maxwell was very devoted to his flowers, as the ladies could
see for themselves, for he spent hours every day in his garden.
As a matter of fact, it was the garden
which was the opening wedge in Hildegarde's match-making scheme. For when mamma's French poodle was let
out in the yard for exercise, he leaped
the fence and began to gambol playfully in Mr. Maxwell's carnation bed. Hilde-
garde climbed the fence after him, caught her skirt on the paling, reached terra firma
at last, damaged but determined and had Scamp in her arms when the owner of the garden appeared. Hildegarde lost no illusions in that first interview. He was all that she had fancied him when
she had seen him from the upper windows and he would not listen to her apologies.
Indeed, he even went so far as to pat Scamp's muzzle, and say that he was in him to his new neighbors.
Hildegarde returned home, her hands
filled with flowers and her heart with hod with flowers and her heart with
hope. "You must come over soon and meet mamma," she had said on parting,
and then she had blushed as scarlet as if he could have read her thots. Apher blush. He only assured her with an early opportunity to make mamma, acquaintance.
It was rather annoying to Hildegarde turer was present when Mr. Maxwell of twenty-five or thereabouts, whom
mamma had stumbled on the second
morning, and had instantly recognized as a former acquaintance. He was a vol-
uble youth who had a way of looking at
mamma as if she were something good say to him rule, Hildegarde had little ounger man so on monopolizing the which she feared was as little pleasing ile manufacturer.
Yet after three months the youthful Yet after three months the youthful
match-maker was encouraged. Mr. Max-
well came regularly. Hardly a day passed
without their seeing him. The house was full of the fragrance of his flowers.
Hildegarde kept them dovmstairs till
they began to fade, and then she carried them to her own room, treasuring them she hated to throw them away. By this
time mamma had quite a little circle of
admirers, and the broad front porch of son of the automobile manufacturer came well must look on him as a mere boy.
She wished that the latter would be more
outspoken in his admiration, for mamma
loved flatteries as she loved bonbons, and most of her admirers catered to both
tastes. To make up for his mistaken reoutbreaks of petulance.
"I declare, Hilla," mamma cried, "you other on earth. 1 Im tred to the were no
of his virtueges.
$\qquad$
$\qquad$ walked out of the room, standing very
straight, like a princess who has been straight, like a princess who has been
insulted. After that she left mamma to discover for herself th
of her reticent admirer.
Her great-aunt sighed, with the pes
imism of the trouble," she said. "Your mother ought to marry, except your poar dear

When Aunt Sophia's attack of lum-
bago came on, Hildegarde had no time to came on, Hildegarde had no time
think of match-making. Nothing seemed to matter much but relieving the suffering of the dear old lady who had been her staunch ally in all the plotting of her unchildish childhood. Hildegarde was up day and night. Her thin face,
precociously thotful at best, grew worn
and haggard. Her large eyes seemed to have increased several sizes. Mr. Maxell, coming across her in the hall one fternoon, started at the sight of her. "Good heavens, child," he said, "'how very ill you look." He took the tray out
of her hands, as if he had the right to of her hands, as if he had the right to stood staring down at her in a strange, ndefinable way that brot out two spots bright red in her white cheeks.
"You're tired out," he announced a ast, as the result of his scrutiny. "your room and sleep.
"But Aunt Sophia needs me."
Hildegarde checked herself in place." The sound of animated voices a laugh front porch drifted in. Mr. Maxwell was frowning. He did not understand,
"Mamma is not Mamma is not used to nursing. Aunt Sophia very uncomfortable." She took the tray out of his hand resolutely. "I shall do very well. Aunt Sophia is a
$\qquad$a stretch."
As she went upstairs she reflected on
$\qquad$ determination, too. "She will like him all the more for ordering her around,', thot Hildegarde wisely. Had not Mr. ing all the time, after the most approved found it pleasant! She would have en oyed it still more had it been possible That night Aunt Sophia slept soundly, sun was high. She dréssed noiselessly and went down the stairs on tiptoe. Her mother was not yet stirring, and Hilde window seat to drink her coffee the window seat to drink her coffee and the maid brot word that Mr. Maxwell Mr. Maxwell's manner was unusual He seemed agitated, perturbed. H
spoke no word of greeting as she entere the library, and did not return her smile seen your mother this morning?"' reads late," explained Hildegarde, "an
we carry her breakfast when she rings aily. "You see, I've been keeping m He stood looking at her as if he did."
$\qquad$
 ocket. "I received a letter from your
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SPECTACLES OH FREE TRIAL


To Stop a Cough In a Hurry.
Of all the "best things" to do for
cough, the following home-made a cough, the following home-made
remedy will be found by far the remedy will be found by far the
most effective. The sooner it is
taken, of course even deep-seated the better; but yield readily after a few doses cre is the recipe. Granulated Sugar Syrup $. . .131 / 2 \mathrm{oz}$.
Pinex Put, the $21 / 2$ ounces of Pinex ( 50 tle and fill up with Granulated Take a pint of Granulated Sollows add $1 / 2$ cup water, heat and let boil just a moment. Take a teaspoonSimple as it is, there is positiveThe recipe makes a full pint, enough to last the whole family a
long time. Kept. well corked, it
never spoils. Khe ant that children take it readily without the usual struggle.
Pinex, as you probably know, is
the most valuable concentrated compound of Norway White Pine other elements which have made in the cure of consumption. Your Gadly get it for you on reque making this recipe avoid th preparations, use the real Pinex
itself. Granulated Sugar makes

## He bic monarsaving music rouse (MB)



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 Some of the finest land in the Southwest lies
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eheap and profitable.


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HOUSE IN THE WEST
Three Daily Papers

|  |
| :---: |
|  |  |
|  |  |

THE MICHIGAN FAFMER.
she writhed in her chair. "Oh, Oh," she "Well, Cousin Lizy, you see I was n
wailed, "How could she do it?" "I don't know," groaned Mr. Maxwell, and as for him-" He set his teeth Something in his look frightened Hildegarde and she tried to find excuses for her mother's new husband.
course he couldn't help falling in love with mamma. She is so beautiful. And I don't suppose he ever took your feelings into account."
Mr. Maxwell's expression underwent several odd changes during this little speech. "Hildegarde," he demanded, stil all the firmy to her hana, did you know loved?",
"Why
"Whery, of course," cried Hildegarde "Everybody falls in love with mamma.
"And didn't you care for him?", It was a question he had no right to
ask, of course, but Hildegarde answered it. "Care for him? That boy!"' she ex-
claimed scornfully. And neither of them discovered anything amusing in her
"Hildegarde," said Mr. Maxwell stammeringly, as the wisest man will when tain woman. "You seemed to think just now that I would be disappointed by
the news of your mother's marriage. piness. I have loved you from the moand I have loved you better and better and self-forgetfulness. Hildegarde, d you think you could ever learn to care
for an old fellow like me?",
Mamma returning from her honeymoon trip found a big solitaire blazing on Hil
degarde's left hand. Mamma did not al
together approve. 'I'd set my heart your having a good time first," she said
regretfully. "You've been so busy all your own. But I daresay it's a very good She repeats her plaint occasionally
when she takes dinner at Hildegarde' home and tries to stir her daughter to njoying., "Bob and I can't understand and-Joan life wouldn't do for us., But
Hildegarde never did resemble me."
And Hildegarde's husband, smiling on gerald clay's vocation.







 intends to appropriate the guest Pauline smiled
$\qquad$ honor wears a riding habit., I must be
pardon for my informality," Notwithstanding the housekeeper's pre dictions, the supper proved satisfactory They lingered a long time at the table rose, a full moon was flooding the eart with its silvery radiance
 while Geid, as Pauline stood at his side "I shall dream of the happiness of you A few days later ä letter came from Blair Arnold. Part of it ran: "Tha Brooks was a rogue all right enough Company show no transfer of stock Captain Clay or to Brooks. Acting on the advice of my chief, to whom I tol statement of the above made out an enclose it in this letter. If I can do any thing more for you, freely command me."
After reading the letter Gerald sat fo a long time, staring straight before him Somehow his desire to punish Brook
was lessening. There was still the wrong done Captain Clay, but no punish
ment inflicted upon Brooks could right "I will talk with Uncle Thomas, an must see this paper," Gerald thot as $h$ his nephew. All that he said was: "Fo your sake, Gerald, and for that of Pal
line, I would like the money back. A
for me, I am so well contented matters but little. Brooks is getting
be an old man, and I pity as well Gerald carried Blair's letter to Mr
Kenton. That lawyer reported Brooks as Kenton. That lawyer reported Brooks as
still absent from Lexington. Report said
that Mrs. Brooks could live but a few weeks. If she rallied sufficiently to un dertake the journey, she was to be brot
home.
"It will for a time," Mr. Kenton said. "I still
hope that the note may turn up. In case Brooks is his wife's heir, as he wil
doubtless be, for there are no children
 will make an effort to get something for
Captain Clay out of the affair." Gerald plead for an early wedding. At
first Pauline insisted that she must fin
ish her year in the Clayton school. That
idea brot a storm of remonstratce, not
only from the inmates of Elm Hill, bu
$\qquad$
$\qquad$

## Charcoal Purifies

 Any BreathAnd In Its Purest Form Has Long Been Known As the Greatest Gas Absorber.

Pure willow charcoal will oxidiz lmost any odor and render it swee and pure. A panful in a foul cella absorbs one hundred times its volume
$\qquad$
$\qquad$ illness, especially pertaining to the stomach. In England today charcoal while some physicians in Europe claim to cure many skin diseases by covering he afficted skin with charcoal powder the mouth and transfer foul odors at nce into oxygen, absorb noxious gases nd acids, and when swallowed mix with the digestive juices and stop gas By their gentle qualities they
$\qquad$ hoea and constipation
Bad breath
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THEEBEST"LGIT


inary oil give as much iight as


nore modern," Gerald said to his be
trothed. "After all, it is our wedding, dear, not that of my uncle and cousin. and the promise of a because the joy ours, we can afford to let them have their way about the non-essentials," she said gently.
It was before the ceremony that Mr. Kenton, who was among the guests, drew rived in Lexington this morning. H brot his wife's dead body with him. I hear that
A great wave of pity went over Gerald Clay. He could 1 not help contrasting
William Brooks' Christmas with his own. "I am sorry for him," the bridegroom against him is not to be pushed, at least not until he has regained his strength and poise."
"I knew you would say that. To me, is that Brooks' many rascalities have whom he has known for years. Of time of trouble, but they do because of transgressor is hard busy age, but it is based upon solid Gerald did not repeat Mr. Kenton's could be told them later; nothing must The evening's festivities passed withwedding journey; the young couple were to settle down at once in the home of
Gerald's ancestors. There Pauline was o mistress. At first she had shrunk Fuller, who, notwithstanding her many peculiarities, had served the captain long have here. Pauline, I will stay for a
while, 'till you get used to things. Then I'm not sure I'll be contented away from Elm. Hill, but, if not, I reckon you'l always finding a welcome and a home a Elm Hill. when, suffering from a headache.

TELLING STORIES TO CHILDREN. If every bi ren between the are chil there is apt to be the daily clamol, "Tell me a story." The demand is increasing, and it is little wonder the supply often runs short. It makes little difference
whether it is a bear story or a Bible story, or a biscuit story, so long as it is demands. Comparatively few mothers have much time to read new stories suittoo tired to think up one.
Perplexity as to how to meet the de mands of two active children in the lin
of stories, led one mother to devise plan to lessen the demand, and at the tention to details and remember. The plan was to require the child to repeat story told to her before a new the would be told. It worked out better than even Instead of quantity in stories the mothe was able to give attention to quality and to restrict the story-telling to those
stories which it would be useful for them as to be told to the children with ab solute correctness, and the little on peating an old story as in hearing a new one. Besides there was being formed
the habit of giving attention to details, and the cultivation of memory which ar very desirable characteristics in, any stories, it is much better to leave his
free to tell the story in his own words and to let the main point never be lout main facts that is especially desired. The child will put more heart into it and get more real pleasure out of it, if he 1 CONTRIBUTED RECIPES. Plum Pudding.-One pound seeded rais hns, 1 pound currants, 1 pound, suet of citron, lemon and orange peel can
died, (or two of these may be omitted) $11 / 2$ cupfuls flour, $1 / 2$ pound bread crumbs, $1 / 2$ pound brown sugar, grated rind of
one lemon with its juice, $1 / 2$ teaspoonful gredients 8 eggs and sufficient sweet mill gredients 8 eggs and sufficient sweet mil powdered sugal flavored with vanill Date Drop Cakes.-Two eggs, $1 / 2$ cupfu of milk, $13 / 4$ cupfuls flour, 2 teaspoonfuls of milk, $13 / 4$ cupfuls flour, 2 teaspoonfuls
baking powder, $1 / 2$
pound chopped dates

## Personal To Rheumatics <br>   ... <br>  <br> 1 CAN PROVE IT ALL TO YOU <br>   <br> A FULL-SIZED \$1.00 BOTTLE FREE! <br> No want yout to try Kuhn's Rhemmatio Remead. to learr for yourselif that Rheomatism ean bo    KUUN REMEDY CO., Dept. H.N. Hoyne \& North Aves., CHICAGO, ILL. <br> 

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## of Colorado and Kansas

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Fortunes have been made from alfalfa You get from three to five cuftings a year, averaging about two tons to the acte for each cutting. There is a steady demand for the crop at good prices.
The Rocky Ford cantaloupe is native here and many growers have cleared from $\$ 200$ to $\$ 500$ an acre from this crop alone. In fact the Arkansas Valley will grow successtully
the temperate zone the temperate zone

You will find a out and investigate. ley, every acre of which may be cultivated. You will find a deep alluvial

$\qquad$ a series of irrigation
canals, ditches and
 Please send
The Earth.

Kitchen rules.


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## FARMERS' CLUBS

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Address all correspondence relative to
he organization of new Clubs to Mrs. W. he organization of new
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Associational Motto.- with cultured mind,
The skillful hand, wither the farmer's most valuable asset

Associational Sentiment.-
he primal wealth of nations.
THE SEASON FOR EXTENSION WORK.
At the recent annual meeting of the State Association of Farmers' Clubs much was said about the necessity of doing tension during the ensuing year. From the president's address down thru the program the keynote of the meeting was to interest the young people and those how outside of the organization, in Farmers' Club work. Club extension work can best be taken up and most efficiently pushed by the local clubs at this sea son. If nothing has been done to this end in your club, why not take it up at
the January meeting? Appoint a publicity the January meeting? Appoint a publicity committee and let those about you know
what your club is doing. This will prove an efficient ganize on

## AGRICULTURE IN THE RURAL SCHOOLS.

## Synopsis of the address delivered by Prof WH. French, of M. A. C, beefore the State Assoctation of Farmer's Clubs. Agriculture is a seience. It is a broad and complex subject and one which touches vitally the life of each com munity and the life of the nation. <br> The road to success of the farmer lies thru education and intelligence. Ignor- ance is as costly to the farmer as to any

$\qquad$ ests of the consumer there
ideal diffusion of agriculture
thru the public schools. The great pur pose of educators is to better the work
of the school, of the student, That is, his present life and the life which he is to
live after he leaves school. It is the
desire of every school patron that his child shall receive a real usable educa-
tion.
Agriculture is a part, and an important part, of the great field of education. The the atitude of our young men and
women to the farm labor and to farm
life or to create ideals of farm labor
and farm life. All labor without an ideal
pation as burdensome and unremunera-
tvie.
That school is best which responds most
quickly and most effectively to the needs
of its patrons. It would seem that the
rural school, with its agricultural en-
vironment, would be the ideal place to
teach agriculture, but there are special
difficulties in the way as follows: The
all children, irregular attendance, meagre ency. The rural schools are with us and
must be utilized to the best advantage. It is our labor to vitalize and arouse
them. The teacher, however, is the real problem. It is not so much a question of The small school has its advantage in taught in tion. Each subject should be school; that is, thru agriculture we shall afford an opportunity for the child to
apply his knowledge of arithmetic, geography, language
ivics. We can build an addition to the
provided we may place a bench and tools,
the plow and cultivator, and other similar
agricultural tools. We can place there
also a stove and kitchen utensils, thus
affording an opportunity to teach the affording an opportunity to teach the and home-making. This room will selve also as a place for exhibitions from the school garden and home garden and the field. In other words, such a room will assist in making the entire school a workshop where the pupil can express himself physically, intellectually, and industrially. The work in agriculture must not be presented so as to impose another task,
but a part of the existing order. Its great purpose must be to create a rational attitude to a proper ideal of the
farm. It is the spirit and not the letter the view point of the child and not from the view point of some grown-up farmer From the first grade to the fifth we may study, its purpose being to put the child in sympathy with his environment. In jects, or trees, flowers, shrubs, etc., as
related to the means of living of the people and household affairs, in other words, the human activities of the comwords,
munity
them.
From the fifth to the ninth grade w may present what may be termed agri-
culture, that is, a study of the soils, the roads, fences, and buildings. Special trips may be made after school and observation of the conditions on the farms of the district made, reports and compu farm on prices and values on stock made. All of this gives an opportunity to apply the this gives an opportunity of the so-called schoolroom to the acti ities of human life, and in doing these things we shall vitalize the work of the pages of the text-book and really enter

## CLUB DISCUSSIONS

Give Christmas Dinner.-The Sherman
Farmers' Club met with Mr. and Mrs
B. C. Martin, Dec. 19. President W. E. Farmers Club met with Mr. and Mrs.
B. C. Martin, Dee. 19. President W. E.
Carter called the meeting to order. The
program for the day, as before decided program for the day, as before decided
upon, was a Christmas dinner, and
Christmas songs and recitations, which were enjoyed by all, We also listened to
an interesting report of our delegate to
the State Farmers' Club, the State Farmers' Club, held at Lan-
sing. While singing the closing song, a
treat, consisting of candy and nuts, was reat, consisting of candy and nuts, was
passed around, and a sack sent to each
absent member.-Mrs. G. W. Coil, Secy. Hold Young People's Meeting--The De-
cember meeting of the West Haven
Farmers' Club was held at the pleasant
home of Mr. and Mrs. Thomas Amos. Promptly at 11 o clock President Charles
Gassman called the meeting to order and
announce that the program committee
had arranged at a previous meeting to
give the young people of the club, the
entire eharge of the program, after the election of officers, and necessary business
should be transacted. After invocation
by Mr. McGlockne reded to the election of officers, which
resulted as follows: President, Mr. C
Will Gassman; vice-president, Mrs. H. H
Hill; secretary, Mr. J. W. Hillis; treas urer, Mr. J. W. Pierce; cor. Sec., Miss
Susan Hillis; chaplain, Mr. McGlockne;
director. Mr. H. H. Hill. The secretary notiness was deferred until next meeting.
At the annoucement of dinner all re-
paired to the tables and enjoyed an ex-
cellent dinner, prepared by the hostess and her assistants. Dinner over, the
president again called the meeting to
order and named his committees for the was turned over to the young people, with
Irving Hill acting as president and Susan
Hillis as secretary. The following pro gram was carried out: Singing by entire
elub; recitation, Zelma Fuller; recitation,
Mildred Wilson; recitation Fothel Mildred Wilson; recitation, Ethel Hill
instrumental music, Nina Jones; song by
Ethel and Luella Hill; violin solo, Lulu to an encore; recitation, Blanche Mc-
Glockne; a duet, Lena Spitler and Susan
Hillis. The following question was dis-
cussed by Glon cussed by Glenn Amos and Irving Hillis:
"Who has the more opportunities for
making a suceess in life the making a success in life, the country boy
or the city boy?' The young people's
program was a success in every way and
undoubtedly will becm undoubtedly will become a perman
feature of every December meeting here
after. A rising vote of thanks was tended the host and hostess for the
excellent entertaining, after which members and invited guests departed for
their several homes, feeling that the day
was very pleasantly and profitably The next meeting will be held at the
home of Mr. and Mrs. A. E. Spitler,Don't Like Present Highway Law.
At a recent meeting of a Jackson Co. Club,
the president called for a vote of the gentlemen present as to wote of the law. All were in favor of a change as
none seem to be pleased with the present
one. The old law of pathmasters in each district was more satisfactory than the
present way.

Our Motto- "The Farmer is of more
consequence than the farm, and should be
first improved." PLANNING FOR THE NEW YEAR. As indicated in the program outline submitted by the State Lecturer, and which appeared in these columns last veek, the first meeting of the year should be largely devoted to the laying of plans
for the months to come. In most Granges new officers will be installed at this meeta new administration of affairs. It is only natural that the new officers should for more or less individually responsible and that each should have some ideas consideration of the Grange. These should
all be brot out at this meeting. Not all will be found practical or worthy of adoption, of course, but the suggestion of a ber will set all to thinking and perhaps result in a crude, impractical plan being moulded into definite, workable form. Each officer. and member should be urged to suggest new things and none should
hesitate about submitting anything that comes to mind, as the lecturer should not
be expected to do the thinking for the whole Grange. There are brains enough and progressive if the members will only use them.
work out mat be possible to suggest and work out many plans that are entirely
new and original. It is possible, however, for the majority of Granges to profit from and ones thru the adoption of methods
tried out, and at which have been thoroly year the members of each Grange should decide just how far they desire to go in
this direction. For instance, shall the Grange try the advance program this year? Shall the Grange conduct any
special meetings or contests and, if so, of what nature? Shall the Grange use the
program suggestions offered by the State Lecturer, and shall it secure books and
supplement the program work by formin supplement the program work by forming a reading club within the Grange to take
up the well arranged college extension
reading course? Shall the Grange hold open meetings or devise other means of
getting non-members interested in the educational work, as well as the social
functions planned for the year? These


 ..... opinen was that he does. One reason
given was that when it rains the farmer
gets a rest. In the factory rain makes
no difference. -Mrs C. L. Pearce,Mrs. Fred Wells.
Grand Traverse Grange, the members
of which are much elated over the seleeMaster, Edward J. McMullensuing overseer: The words of welcome extended by the
Elsworth E. Duryea; lecturer, R. H. Els- Master of Newaygo Grange made all fee
ant steward, William B. Gray; chaplain, tations and addresses helped to make a
Mrs. A. R. McRae; treasurer, George A.
Robertson; secretary. Mrs. E. J. McMul. program which was unusually good. The
assistant steward, Mr. E. E. Duryea; in-
surance agent, Geo. A. Robertson..
South Branch Grange, of Ogemaw Co.,
has elected the following officers for th
ensuing year: Master, Alvah Monteny
fourth were instructed in the third and
forlows: Masticers elected as
forter, John Knudsented



 officers as follows: Mecember, elected
Chase; overseer, Eugene Parker, Wesley
Masturer Chase; overseer, Eugene Parker; lecturer,
Mrs. Wesley Chase; steward, Chas. M.
Antil; ass't Anaplain, Mrs. D. C. Thompson; treas: urer, D. C. Thompson; secretary, E. O. Waterman; gatekeeper, Dexter Sammons; Clark, Addie Blair; Pomona, Mrs. W. Whora, Sara Waterman; lady ass'
Clark steward, Josie Blair; organist, Mrs. Rex.
One of the Strongest One of the Strongest Pomonas in the
state for several years past has been
that maintained by the Granges of Char-

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& \text { Mrs. Upsall Hobss: lady assistant stew, } \\
& \text { ard, Mrs. Frank Hawley; insurance agent, }
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$$Wroud of its financial of Charlevoix Co., is

rom the last dance. The finance com
had made, in various ways, $\$ 52.41$, itfor fayorable action on parcels post andpostal savings banks bills were read by
the secretary and signed by the mem
OMONA MEETINGS.
Clinton County Pomona met with Olive
Grange, Wednesday, Dec. 16.
The at-
The members of Olive Grange have been
painting, repairing and papering the in-
side of their hall so it looks veryThe program was well carried out.
r those fatted on other foods?", was well
iscussed. The general opinion was the
fter they had gotten a good on corn,range ?, was what dise our county(2)

## Most Wonderful Offer Ever Published! On Save 30 to 50 Per Cent on Your Purghases 100 The Chicago House Wrecking Coo's Grand I909 Sale of Merchandise!

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 you church, meoeving hauese or builidias of thy kind

 America's Real Bargain Center! That's. what thousands of people know us as. And there's merit to it. We buy our goods at
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[^0]:    drates in the corn feed, there is a waste

