

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

DETROIT, MICH., SATURDAY, AUGUST 3, 1912.


Vol. CXXXIX. No.
Whoie Number 3602.

DESTROY weeds. Dig them up by
the roots, slash them with a spud
or hoe or hoe, cut them with a scythe or phate of iron, pasture them with sheep and goats, choke them out with grass and heavy growing forage crops, change the crops on fields that are infested, cul-
tivate frequently during the early part of the season. Every farmer should wage a vigorous and relentless warfare on these noxious and unsightly enemies of
agriculture. A co-operative united effort agriculture. A co-operative united effort
on the part of adjoining. land owners on the part of adjoining. land owners should make weed killing a common ob-
ject. Individual effort may succeed in keeping down weed growth on a small area, but a man is up against a difficult proposition when his neighbors persist in producing seed faster than he can destroy the weeds. No complete victory
can be gained over the most noxious of these expensive and injurious muisances until farmers band together and make concerted and persistent effort to clean up their nelas, fence cohners and road sides and employ methods whi
beth preventative and destructive.
There is no accurate way of getting at the loss which weeds cause to the coun it annually, but lars, perhaps double that amount. Not alone do weeds make it much more expensive to grow crops, but they make a heavy draft upon the moisture and fer-
tility of the soil, besides they reduce considerably the market value of the
For example, a report from the Minnethe average dockage per bushel on wheat for two years to be 19 ounces. This
dockage is very largely due to weeds. Minnesota produces annually about 200 , 000,000 bushels of small grain. Had the land been free of weeds the same amount of plant food, moisture and labor wouid of wheat or the equivalent in other grains. This makes an actual loss due to weeds of about two and one-half mil-

Controlling Weed Growth on The Farm.
Cheap clover and grass mins, as they are made today, wh take seed and seed grain from other localities the cockle out of wheat, kale out of are prolific sources of trouble to many oats, buckhorn out of clover, in fact, nly the seed, but the grain to be fed kinds of seed and grain. It will pay a hould be cleaned. It prevents the foul farmer to place superior samples weed seed from going back to the field grain on the market, sow cleaned seed vast amount of labor and money to get rid farm, either through seed or manure. of it. The screenings will make good Some of the noxious weed seeds live
poultry food or may be ground with in the soil for years. Several years ago


Harvesting Hay and Wheat in the Upper Peninsula of Michigan. nual rental of 30 centis per acre on every acre
on which small grain is grown. Added to this
great loss we must include cost of fighting weeds, loss of fertilit and moisture, strain on of twine to tie up the weeds, freight charge for shipping the weed
seeds, etc. Weeds are distribute in curious ways. Many a farmer has had hi weeds because the by the wind over froze which the country covered in the winter
Some are carried by th wind, as for example thistle and milkweed Others have burrs or
needles which attach themselves to anything with which they come into contact. These find their way from field to field, into the barn and feed lot and finally into the manure pile and are again distribute over the farm. Other get into clover, grass or seed grain, and for some of these the farm er pays the price o

conducted an experiment to determine
the length of time weed seeds retained their vitality in the soil. Wild oats grew after being buried in the soil 20 months Mustara and some of the other weed seeds grew after being buried 56 months. These facts ought not to discourage the vation will season of systernatic culti condition bring most of the seeds into What few are left to grow later may be removed cheaply by subsequent cultiva tion. One should keep up the work with vigilance after he has cieaned up a fie! ork one season and tinue the warfare the next will avai little in the work of cleaning up the field. After the most noxious annual weeds have been brought under contro a system of rotation of crops which pro vides for one or more years of cultiva each field in six or seven years, will eventually clean up a field of most weeds, and tend to add to the productivity of nual, a biennial or a farmer is to make any hoed it farmer is to make any headway, it a knowledge of their habita of growith as well as of their strong points and as well as of their strong points and
their weak points end plan his metho of subduing them accordingly. Annual are by far the most common and easily controlled, consequently it is, perhaps, better that I should discuss the biennial and perennials in another article. Farm manure contains many weel
seeds which will germinate and grow as For this the conditions are favorable it is better to apply the farm manure dressing. In this way the weed seeds being on the surface germinate quickly,
crowded out by the grass and and plants, are unable to secure any foot
hold. A small weed finds it very diff cult to get a start in the thick growth
may be wrong in my growth, but weed control the wee
tivated crops on my been since we have clover fields instead and which was sod ground immediately and plant
$\qquad$ of other farmers along of benefit in considerin, this phase of handling
farm manures and controlling weed growth on our farms.
One of the most ef fectual means of con
trolling weed growth more especially, as it to plow the field early in the spring harrow it quently as many times as may be necessary before planting time. Fortunately this labor is not in the least wastong way toward pre a paring ground for plant-
ing. The farmer who
plows his ground early and gives
every weed seed near the surface an
opportunity to germinate and keeps
the harrows going until planting time
will save a great deal of subsequent work
of cultivation. He has warmed up the
soil. He has given them moisture and
heat, and they naturally grow. By che
frequent harrowing he kills them right
at the start. The stirring of the soil in-
vites the seed to germinate and then
they can be destroyed by the thousands
by harrowing again. A weed germinated.
sprouted and then buried or uprooted is
done for. By keepng up the good work
with the weeder or smoothing. harrow
untiit it is time to start the two-horse
cultivators going in the corn or potato
field he has destroyed so many weeds
that he will have but little difficulty in
keeping his crops free from weeds dur-
ing the rest of their growng perod. Early
harrowng and cultvating counts might-
ily in controlling weed growth on the
farm. There is no system of soil man-
agement that will clean up a field of
weeds in one season, beeause many of
them will not grow the first year. Fre-
quent cultivation hastens their germina-
tion and destroys those that grow during
the early part of the season. It will not Another way of disposing of these an-
nual weeds is smothering them out with grain, grass, and forage crops. A
stand of grass, grain or forage will
smother out most of the weeds that ger-
minate after the field has been seeded. minate after the field has been seeded.
A thin stand of grain, thin spots in a
meadow of low, wet places where crops fail to make a good stand simply invite
weeds. If there is no crop to occupy the land and shut out the sunlight the weeds
are sure to come in. Whoever saw an-
nuals survive in a field that had a good Tile drainage which would remove sur-
face water and enable the crops to make an even stand over the whole of
the field would be of great value in
simplifying the problem of weed control weed control be simplified but there would season. They are allowed to grow, the ortunately, wet seasons and other fac armers say, "the weeds take the crop."
I know a few agricultural leaders who hink that they know about all there
know about farming who say they would not have a hoe in the corn or po-
tato field. Well, I am not one of those
clld fogies who seem to think there is a peculiar virtue in a lot of soil massed
about a plant with a hoe. When it can
be done with a horse it is a much easier be done with a horse it is a much easier
tazk and the more economical way to
it Nevertheless, I am very sure that do it. Nevertheless, I am very sure that
there are times and fields where no other
$\qquad$
in smoothing harrow, early and often,"
These tools is of about as much value as
would be a briar brush dragged over aout the plants too By all ment means use a a
out
hoe rather than allow a few weeds about
seatterece through the field they may be
cemoved quite heaply by hand pulling.

This method is

$\qquad$ has been directed toward destroying
them will be lost labor. In such cases hand pulling $\qquad$

## AN IMPROVEMENT ASSOGIATION

There has been organized in Shiawassee county at Owosso, "Thé Improvement Association." This society is broade

Board of Trade," or "Business Men's quainted with agriculture to comprehend known, and is to embrace the farmers of the unearned increment or investment an the county, or at least those whe have stored up soil fertility which now has
business relations in the principal city become partially exhausted. When Rom
of the county.
The somewhat local view that separates the city man as having interests
diverse from that of the farmer in the general upbuilding of the country, particularly in the middle west, is not well the east, where, for example, shoes and the weaving indusiry are predominant,
there is in a general way no intercomthere is in a general way no intercommunity interests between town and coun-
try. In the middle west, where cities and towns are dependent in a large measure on agricultural products, such a move as
this Improvement Association is destined to be effective of great good, in both an
economic and moral sense. Among the things proposed for the general good is be the laboring man of the association, and connect up the industrial forces of people coming into the city for the day, provided with lavatory and comfortable seats and tables; s projected.
Under the provisions of the recent ap-
propriation for agricultural experts by congress, to be provided under certain co-operative conditions of the country,
it is proposed to secure such aid for Shiawassee crunty. The secretary of the
Improvement Association expects to conand associations farmers individual farmers cure immediate action, if possible. In their adaptation to soil and the grade of he farmers of any county many thou the farmers of any county many thou-
sands of dollars annually. Any qualified expert of wide sympathy and training
could do much to establish a higher exceed 50 cents a year to the individual farmer. Among some of the essential
qualifications should be a knowledge of soils and a working acquaintance dress to occupy the country church pulpit on occasions, when demanded. The Improvement Association also expoads. They will lend a hand to advance parcels post. These questions are par
ticularly the one that more closely re ate to farmers, while securing new in dustries for the cities, parks, etc., wnt
constitute the additional work of this body.
Another subject of both city and couninterest is discussed, that of a coun
hospital. Perhaps none that the at endant physician knows better the inadequacy of medical attendance under
unfavorable home surroundings. The workingmen's compensation law is in-
tended to have the industries provide for ceidents occurring in those ocupations. The hospital at hand would be a great relief to the individual sufferer, and also of sickness not of direct accident. To
the workingman who is confined to his bed in an unsanitary boarding house
when better and cheaper attendance at county hospital could be had the
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$\qquad$ was the most tolerant and liberal feeling expressed by business men towards all
who work in this world, which includes about everybody. If Cain had come into not being his brother's keeper, he would The city tradesman is not slow to see ion boundaries, good roads, the trolley, rural mail delivery of the daily paper, has vastly extended his possible patron-
age. The farmers' employes are getting ood wages and their patronage is strictinsurance man, really a better "prospect" for the tradesman than shop men.
One of the economic features of uniting the interests of city and country are those factories whose productions originate on the soil, like sugar beet growing or where, like the automobile industry, the sales of machines and good roads are largely country affairs. The sugar manufacturers are alert for soll improvement and good roads. The factory manager is in most cases a chemist and knows
the basic principles of farming. One of the difficult things for most men not ac-
an agriculture was depleted grain was shipped in from the conquered provinces. That was the economic thought of their day, and how very similar the propozition of reducing the high cost of
living by shipping in duty free Cand living by shipping in duty free Canadian from Argentina.
The Shfawassee county plan of conser and country, mutually caring for of city and country, mutually caring for the in-
dustrially injured and sick of both city and country, appeals to one's idea of plan o: bringing in cheap corn from out plan o. bringing in cheap corn from out
side or its modern counterpart of eco nomic thought of soil depletion at home in order
$\qquad$
LILLIE FARMSTEAD NOTES.
The subject of midsummer irrigation is not of very much interest in this par urday morning, July 20 , the weather department at Grand Rapids gave out the information that Saturday would be fair ky was overcast with heavy clouds, we began to pull peas in one field for the began to sprinkle a little, not enough to stop work. I thought probably it would It rained a little bit harder until by 11 clock we had to quit work, and from that time on it gradually increased until which lasted came a steady
$\qquad$
$\qquad$ st severe rains in my remembrance. Sunday morning great ponds of water there was a depression. Many of the fields are gullied because the water got
so high in the low places, broke over the ridges and washed out. The tile drains idges and washed out. The tile drains the spring or late in the fall. Much damthe spring or late in the fall. Much dam-
age has been done. The oat crop, which is just beginning to turn a little bit in many places, is laid flat. It never can be cut clean with a reaper, but then, we ought not to complain, because the news comes that in many localities in the United States they had cloudbursts, and not only crops were destroyed but human lives as well, and nothing of that sort we have enough moisture, and it doesn't
seem as if the land could get so dried out that we couldn't plow oat stubble this year in time for wheat.
There will be an abundance of grassy crops this year, and we are much in the same position that the farmers are down

## n Cuba when the wet season comes. A hey can do is simply to sit on the feric

crops, and that's all we can do at the
present time. The land is entirely too wonderfully.

## It is a wonderful time for pastures and

nd growth of clover meadow is simply suitable weather comes so that the flowers can be fertilized and filled in this lover seed we ever had, but, of course one ought not to build any hopes on this conditions may be so that it will not sufficient amount of seed to pay for hulling.
Part of the wheat has been cut, but was cut was out, of course, in this heav rain. In one field near the house, on an pond of water, but the wind was not heavy and not a great many of the
shocks were blown down. I think that if it only stays fair by setting out part of it that the crop can be saved. So far as we were concerned, we were so slow that we didn't get any of the harvesting done. now are just getting the binder ready enough as soon as the ground gets dry and cut our wheat
Haying is practically done in this counhauled. Mueh of it was injured, some of vise us with place and date at least ten it quite severely. The surprising thing
in the publish notice of all farmers' pienics
o me is, however, that stock eat this was as well as they do. Of course, il just at the right sught to have been, it was raked up the same day it was cut, and cocked up. None of it was blistered in the sun, but some of it got soaking wet and the weather was not drying so of a white mold formed on the boitorn the cocks where they didn't dry off as quickly as they ought to, yet I put it all the barn. We have seven calves that I thought were too young to turn out to
pasiure this spring so, of course, we are feeding them hay. Before we hauled his clover hay we were feeding them a which were mixed together. This was ut and cocked up and cured in the cock and never got a particle of rain on it I hardly see how you could get a better quality of hay than that, but strange to to be relished just as well by these young calves as the other, and the same with the horses, they eat it just as well. Colon C. Lillie.

## FARM NOTES.

Winter Vetch as a Crop for Green Forage.
What can you tell me about winter tell me that I can never get it out of
the ground when once in. Is this a fact? 1 want to sow rye and vetch this fall
and plow it under next June, keep it
well disked until fall and then sow the you think of that plan? Wrop. What the vetch
kill out by plowing or is it hard to get The impression that vetch is likely. become a weed on our better soils is well founded. A Mecosta county farmer vetch was sown some 20 years where allowed to soed that he has been unable owed to seed that he been unable methods, although a four-year cultural was practiced on this field. However, it is unnecessary to permit it to seed where ne desires to use it as a soil improver. under before the seeds mature to the stage where they will grow, that will be the end of the vetch plants as the rom the seed and not from running rodot stalks, as is the case with many of our noxious weeds. The plan outlined for putting this land in good condition to seed down to alfalfa would seem to the writer to be a very good one, but after plowing the vetch the land should be
thoroughly packed down by frequent tilage before the seed is sown in order to as this a good firm seed bed. As soon s this has been accomplished and moistit will get as good a start as possible before winter.

## I have 10 acres of timothy that I don't need for hay so think of cutting it for Which is the best to cut it with, he binder or mower, and what kind of a nachine is it threshed with for best re-

The grain binder is the most satisfacThe cutting should be done at just the right stage to prevent the shelling of the proper time to cut and the bundles should not be allowed to stand in the shock too long for the same reason. The separator, but the wind on the sieve must be carefully regulated so as to not ver. The threshing of timothy for seed ditions since the seed brings an unprecedented high $\qquad$

The amount of seed harvested United States during 1911 was approxiseed to sow a million acres or more. In addition to this a large quantity of seed was imported from Europe. Alfalfa is he farmer. We still have a limited supply of high-grade dry land seed grown in Dakota, Nebraska and Montana and shail be pleased to submit sample and prices upon request. Alfred J. Brown Seed Co., Grand Rapids, Mich.

The Michigan Farmer will be pleased nd gatherings. If you know of one adcays in advance.

## LIVE STOCK

CORN SILAGE THE MOST ECONOMICAL ROUGHAGE FOR
TENING CATTLE,

| In the Michigan Farmer for May 11, the results of the season's experiments at the Indiana Experiment Station were given in detail. These results proved conclusively that the cattle feeder cannot afford to eliminate silage from the ration for fattening cattle. The results of similar trials at the Iowa station, as compiled by Profs. J. M. Evvard and W. J. Kennedy, are equally convincing. Regarding the results of the trial, these authorities say: <br> Silage must be put into the feeding program of every beef producer who wants to fit steers for the market economically and efficiently. The animal husbandry section of the Fowa Experiment Station proved that in part a year ago in a thorough feeding test; it proved it fully this year in a second test. The animals fed on silage made cheaper gains, they lost less in shrinkage, and they returned greater profits than other animals in the test fed on clover hay as roughage. The silage-fed steers put on gains at a net cost that was $\$ 2.01$ per 100 lbs. less than the clover hay-fed steers, and the best lot of silage-fed steers made a profit of $\$ 23.46$ per onimal as against |
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Hogs following cattle were valued at is a complete feed within itself and use
$\$ 6.10$ the first three months and $\$ 7.50$ the it as a sole feed in thinking that it will $\$ 6.10$ the first three months and $\$ 7.50$ the it as a sole feed in thinking that it will
last two. The record of feed, gains, costs and
profits follow in lots for the entire feed-
ing period, and will be found in the table ing period, and will be found in the table
at bottom of this page. at bottom of this page. the lowa station called attention to the
indicated possibility of feeding silage
heavily in the early part of the feeding heavily in the early part of the feeding finished and quite fat, for the evident reason that the large amount of silage
was not desirable in producing rapid and economical gains at the close of the feednote that lot 5 handled in this manner, ginning, with light silage and heavy corn per head, or $\$ 23.46$. This in spite of the
fact that corn increased to 57 cents and
65 cents, from 50,51 and 55 cents during

the first three months. In other words, everything was against this lot because We are thinking about building | of this big handicap it won out by a nar- $\begin{array}{l}\text { inea is to build the building } 20 \times 24 \text { ft., } \\ \text { ft. high to the eaves, on a north slop } \\ \text { row margin. }\end{array} \begin{array}{l}\text { the lower six or eight feet of cement and }\end{array}$ |
| :--- | In making a change of this sort, as the the upper part out of lumber, buildin animal becomes fattened, it is advisable steps up to second story what it lacks

to do it gradually, pushing heavily on the say three or four feet, with cemen
floor. Now what we want to corn and coming back gradually upon
the silage. The object is to concentrat the ration at the end of the fattening
period.
Clover is an exceptionally good cattle
roughage, but at present prices its use this experiment been figured at $\$ 10$ per
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$\qquad$ shrinkers. This year they all beat those having clover, as last year the least both silage and clover hay.
The least shrinkage occurred on those cattle which received both silage and
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$\qquad$ iod. Cottonseed meal was allowed in classes or animals. The feeder with th
equal amounts of practically $23 / 4$ lbs. sio must not get the impression, how
einat silage is a cure for all ills, bu



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## PERCHERONS


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## VETERINARY

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and he desired information will probably fin as been made to some one else. When


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## Don't Fail to See This Car

In the HUDSON " 37 "' is expressed the combined skill and experience of the greatest body of automobile engineers in the industry.

These men represent the training of the greatest factories in the world. They have learned what experience has taught the 97 principal makers of Europe and America.
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Imagine what strides, what advancement, men of such experience are bound to offer in the car which all have joined in perfecting.
You probably have an ideal of what a moter car should be. Your knowledge of automobile shortcomings undoubtedly has suggested improvements which you would have in a car if it were built to your order.

Well, here is where you will find not only what you wish to see, but also what has been expressed through the experience that has been gained from the 200,000 owners who have used the cars which these men have helped to build.

It is all in the one car. It expresses as nearly the limit of four-cylinder construction as has been reached.

## Hadn't You Better Wait?

Even if you are impatient to have a new car now, don't you think it better to see the HUDSON " 37 ', before you buy?
It will only be a few days at the most before your dealer will have a " 37 "' to demonstrate to you. If you buy any other car before you have you. the " 37 " disappointment is surely in store for you.
No car you can get today, regardless of "price, has all the features that are offered in the " 37 .

Consider for a moment the rapid advancement that has been made in motor car building. It is almost as startling as are the changes in fashion. Think how strange are the open cars of two years ago, What proportion of their original cost do you think such cars now bring? It is not due to wear that their value has declined so much. No, it is the advance that has been made in automobile building since the open cars were put on the market.

With that thought in mind you must recognize the importance of choosing wisely now. Automobiles as now built should be of service for many years and you don't want to feel that you will have to buy a new car in two, three or four years because the one you have just purchased, will at that time be out of date.

## Electric Self-Cranking-Electrically Lighted

## The Greatest Engineer of All-Their Chief

At the head of these experts is Howard E Coffin, the foremost automobile engineer of America, recognized here and abroad as the most startlingly original designer the industry has produced.

His genius is an inspiration to his associates. From him they have gained in ability. On account of them he has become a broader and more versatile builder

What one man lacked in experience, some one of his associates was able to supply. The problems one was unable to solve, others soon found the answer for.

That accounts for the completeness of this car. That accounts for the fact that you will find on it the very things that you have wished to find on an automobile. That explains why this car on an automobile. That explains why this car automobiles have failed to accomplish

## Your Safety in This Choice

No one is likely to soon have many new ideas to offer that these 48 engineers have not already anticipated.

They all combine in saying that the new HUDSON " 37 " represents the best that there is in four-cylinder construction.

They proved every move they have made through 20,000 miles of gruelling country, mountainous, mud and snow driving.

The most abusive treatment one of the most skilled drivers in the world could give this car in the thousands of miles he drove it, without developing a single weakness, or discovering single detail in which improvement could be made either in design, construction, simplicity, easy riding qualities, responsiveness, safety or power, is a guarantee that you will find it ex presses your ideal of what a four-cylinder car presses you
should be.

## Some of its Notable Features

Electric Self-Cranking. Automatic. Will turn over motor 30 minutes. Free from
complications.
Simple.
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effective. Electric Lights. Brilliant head lights.
Side lights. Tail $\begin{aligned} & \text { Lamp. } \\ & \text { dash. } \\ & \text { Diluminated } \\ & \text { Extension lamp for night work }\end{aligned}$ dash. Extension lamp for night work
about car. All operated by handy switch abnut car
on dash.
Ignition. Integral with electric cranking
and etectric lighting equipment. Gives and etectric lighting equipment. Gives ented System, the most effective, effiPower. Four-cylinder-en bloc, lons
stroke. New type, self-adjusting multistroke. New type, self-adjusting multi-
ple jet carburetor, High efficiency, great
economy, 43 horsepower, brake test, economy, 43 horsepower, brake test, ${ }^{37}$
horsepewer at 1500 revolutions per min Speedometer. Clock. Illuminated face
Magnetic consituction. Jeweled bearings. Registers up to 60
Eight day keyless clock. Windshield. Rain vision and ventilating
Not a malzeshift. Not an attachment. A part of the body. Not an attachment Upholstering. 12 inches deep. Highest development of automobile upholstering
Turkish type. Soft, flexible, resilient
fle Comfortable positions. Handbuffed lea
er-the best to be had. Horn-Bulb type: Concealed tubing.
 tires-heavy car type. Extra rim. Top. Genuine mohair. Graceful lines.
Weli fitted. Storm curtains. Dust enBodies. Wide and comfortable. You Dit in the car-not on it. High backs. Gracefu
lines. All finished according to bes ber
coach painting practices. 21 coats-var
nish and color. Nick $\triangleq 1$ trimmings throughout Gasoline Tank. Gasoline is carried in
tank at rear of car. Simple, effective tank at rear of car. Simple. effective,
with two pound pressure. keeps con-
stant supply in carburetor either going stant supply in carburetor either going
up or down hill. Magnetic gasoline gauge
continually indicates gasoline level. Wheels. Extra strong. Artillery type
Ten spokes in front wheel. Ten hub flange bolts. Twelve spokes in rear
wheel. Six hub flange bolts. Six spoke Bearings. All Roller bearings, thorough ly tested. Latest type.
Rear Axle. Pressed steel. Full adjust treated nickel steel shartse bearings. Hasily disas sembled, an item which indicates the Models and Price. Five-Passenger Touring, Five-Passenger Torpedo, Two-Pas
senger Roadster- $\$ 1875$, f. o. b. Detroit senger Roadster- $\$ 1875$, f. o. b. Detroit.
Canadian price, duty paid, $\$ 2425$ f. or b.
Detroit. One price to all-everywhere. Simplicity. The HUDSON standard of simplicity. is maintained. Every detail is accessible. There is no unnecessary
weight. All oiling places are convenient.
There ara but two grease cups on the Weight. are but two grease cups on the
There are our
motor. Fiery unit is so designed that it can be quickly and easily disassembled.
Think what an advance this is over, even
the previous HUDSON-the "Cow"-the

## The Michigan Farmer

 ESTABLISHED 1843THE LAWRENCEPUBLISHING CO. EDITORS AND PROPRIETORS

TERMS OF SUBSCRIPTION


CURRENT COMMENT.
Unity of Rural and of this issue will
Urban Interests. be found an article
on the organization
of an improvement association with its
headquarters at the county seat of one
of the important agricultural counties in
the state. The plan upon which this as-
sociation is organized, as outlined in this
article, shows that there is a recognition
by the leaders in the affairs of both city
and country of the fact that their inter-
ests are very similar in character, and
that what will be beneficial to the one
will also be helpful to the other.
One of the most encouraging tendencies
of our modern times is this getting to-
gether of urban and rural interests which
has been noted many times through
these columns during the past year. This
general recognition of the fact that the
interests of our county, state or country
should be considered as a unit and that
whatever makes for the advancement of
any one division or class of people is also
beneficial alike to others, promises well
for the future material advancement of
our prosperity in future years. This ten-
dency has been shown not alone in the
matter of commereial organization, but
has found expression in a social way as
well. Many of the Farmers Clubs and
Granges have a town membership and
many of the town organizations have
mantry membership.
There cannot be too great a develop-
ment of this spirit of unity between ur-
ban and rural people along industrial or
social lines. It is a work which should
receive encouragement from every source
and this movement for business unity in
the promotion of the interests of an en-
tire county is certainly a move in the
rigit direction.
Bourne Parcels of ofter weeks and months
Post Bill. parcels post proposition
of the
$\qquad$
Briefly summarized, this bill provides
that postan rates on parcels shal vary
with distances, thus protecting hocal mer
companies. The most radical provision,
rowever, is the entite elimination of one
the third and fourt.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ ounces being provided.for circulars and small packages of goods. The rates for
$\qquad$
$\qquad$
$\qquad$
$\qquad$
mile zone eight cents per pound for the
first pound and four cents for each additional pound; within the 1,000 mile zone 11 cents for the first pound and seven cents for each additional pound; within
the 2,000 mile zone 12 cents for the first pound and 10 cents for each additional pound; outside the 2,000 mile zone 12 cents per pound committee, are based upon the careful computation of actual cost of carrying, distributing and delivering packages, plus actual cost of transportation. The weight
limit is fixed at 11 pounds and the maximum charge 12 cents per pound, which are the international limits and rates. It appears, however, from an analysis
of the rates that books and catalogs
formerly mailable at the third-class rates will be obliged to pay a considerably
higher rate than at present, and higher even than would be required to be paid by those mailing similar articles from
foreign countries to any point within this country. Apparently this compro--
mise was reached as a means of satisfying the people who have demanded an adequate parcels post and those who have fundamental principle of our post office service, which has not taken into con-
sideration the item of distance in the matter of the charges made, and lik
most compromises of this character, it



thorough investigation of every phase of
the question by a joint committee, their

## report to be acted upon at the next ses sion of congress, instead of favoring the

 ly considered rider to the general post cations and costly preparations which proposition of this kind would seem to would be plain to the average patron without the assistance of an expert interpreter of rate sheets. Possibly this may be the kind of par-
cels post which is best adapted to a big country like ours, but this ought to be carefully demonstrated by a campaign of education before we make any expensive
experiments, since it is not the kind of the proposition have had in mind. $\begin{array}{cc} & \text { Hon. David Lu- } \\ \text { To Investigate European } & \text { bin, delegate of } \\ \text { Co-operative Credit } & \text { the United States } \\ \text { Systems. } & \text { to the Interna- }\end{array}$ tional Institute of Agriculture at Rome,
has prepared a report to that body on in April, 1912. Michigan Farmer readers
will remember that at the session of the Southern Commercial Congress, held at toward the investigation of European a conference was held between the American delegate and officials of congress
and that after a conference lasting a the formation of a select committee of
two members from each state in th then
Union to visit Europe and investigate th view to making a recommendation re
garding the establishment of a simila
system in the United States which woul be best adapted to our conditions.
In the report by Mr. Lubin, it appears that the date decided upon for the Am-
erican committee to start on its journey
to Europe is May, 1913, which time has
been adonted. The original plan of having two delegates from each state was
adhered to and the point is made that by having the committee start in May,
1913 , an opportunity will be afforded to will be in session from January 1, 191 eling expenses of these delegates. estimated that $\$ 1,200$ would cover each delegate, including his proportionate hare of cost of stenographic reports
translations, etc. In his communication Mr. Lubin says:
It is now in order for the agricultural organizations and the leaders in agricul-
tural industries in the United States to see that each state appoints its delegates didates for election to the state legislatures in November to support the re quisite appropriations and to work ear-
nestly for this purpose during the ses-
sions of the legislatures," He also sug-
gests that all agricultural organizations
appoint committees to take up the work appoint committees to take up the work
now, to the end that eyery section of the now, to the end that eyery section of the committee which will start for Europe in
May, 1913, to investigate European co operative credit organizations. Corresdirected to the Southern Commercia Congress, Southern Bldg., Washington D. C., and requests for publications on
the subject to the American Delegate to the subject to the American Delegate to
the International Institute of Agriculture, Rome, Italy.
Considerable space has been devoted to this proposition of European credit or ganizations in the editorial columns of
the Michigan Farmer. Without question the Michigan Farmer. Without question cans should profit, and this move toward
the sending of a representative body of men who are interested in American ag riculture to make this investigation and report a practicable scheme for the or ganization of a national rural society in
the United States, which will be adapted co our needs and conditions, is one which
should receive the support of every per son who is interested in the further up building of our agriculture. Indeed, it is believed by many that a national movea natural way a desirable measure of banking and currency reform, and afford an elasticity to our circulatory medium
which is generally recognized as desir-
able, but for which adequate provision

## able

HAPPENINGS OF THE WEEK.
Two men, a woman and three boys
$\begin{aligned} & \text { Two men, a woman and three boys } \\ & \text { were killed outright when a Lake Shore } \\ & \text { M Michigan Southern train struck an au- }\end{aligned}$
$\begin{aligned} & \text { Sunday afternoon. The approaching rat1- } \\ & \text { road train was obscured by a corn field. } \\ & \text { A number of passengers were hurt }\end{aligned}$
$\begin{aligned} & \text { when two electric cars collided just out- } \\ & \text { side of the city of Detroit on the Detroit, }\end{aligned}$
$\begin{aligned} & \text { Jackson \& Chicago road. The accident } \\ & \text { occurred Sunday night during a storm. } \\ & \text { It was claimed by the officials that the }\end{aligned}$
ainger lights were obscured by the heavy
$\begin{aligned} & \text { Unusual exciternent. was caused last } \\ & \text { week by the arrest of several aldermen }\end{aligned}$
$\begin{aligned} & \text { week by the arrest of several aldermen } \\ & \text { of the common council of Detrot upon } \\ & \text { the charge of graft. Detectives had been }\end{aligned}$
$\begin{aligned} & \text { omployed in connection with the closing } \\ & \text { of Seventh street to accommodate the }\end{aligned}$
$\begin{aligned} & \text { nlargement of certain railroad proper- } \\ & \text { ies. In order to secure the required }\end{aligned}$
$\begin{aligned} & \text { votes for passing the ordinance closing } \\ & \text { the street it was neessary to pay for } \\ & \text { same in amounts ranging from } \$ 100 \text { to }\end{aligned}$
$\begin{aligned} & 1,000 \text { It is probable that a grand jury } \\ & \text { will be selected to review the evidence }\end{aligned}$ gate further into the charges that have
reen made. Seven balloons started from Kansas
City in the elimination contest to deter-
mine the three American balloons to mine the three American balloon race
enter in the international balloon
in Germany next fall. Two of the bal-
loons were unheard from Monday. The
Kansas City No. 2 landed about 24 miles from Detroit 0 on sunday after having
sailed about 640 miles This is the long-
est trip made by any of the balloons reporting.
The demand for steel is so urgent at present that premiums are being paid by
consumers for prompt shipments. The
cricu also the price for steel pipe.
According to the bureau of statistics the total volume or exports from this
country during the past fiscal year
amounted to over $\$ 1,000,000,000$ The
ng the past year were shipped abroad
o the value of $\$ 28,000,000$. In 1902 only
$\$ 1,000,000$ worth of autos were exporced.
under which an interstate corporation
would be required to obtain a chartor
from the federal government before do-
Orders have
stock cars, 350 coal cars and 5
entailing a cost of $\$ 1,000,000$.
There appears to be no legalo the merger of the Bell Telephone and
Home Telephone Companies in Michigan
railway commission and it appears fron
the reports of the hearings that the priv-
that is delaying the final decision is
whether independent companies through-
out the state who have had working ar-
rangements with the Home Telephonepeople will be protected in their rights
Company It is the purpose of the con
mission to see that these rights a
properly surrounded to secure congres
Effort is being made to ser
sional legislation providing for the construction of an ocean-to-ocean roa
across the United. States. It is the pur

$$
\begin{aligned}
& \text { cessful in the } \\
& \text { of congress. }
\end{aligned}
$$

The supreme court of the state of Illi-
nois sustained the law enacted by thelegislatureroad trains in the case of Tarantia vs.

Foreign.
Matsuhito who for 44 years has been Emperor of Janan, died at Tokio last
Monday morning. He was the 121 st em

```
Monday morning. He was the 121 st em
peror of that country. His son will suc-
ceed to the throne. The dead emperor's
``` reign was one of great importance to
Japan for, during that period the coun try was transformed from a simple herIn a dense fog the steamship Empress
of Britain, of Quebee, collided with the of Britain, of Quebee, collided with the
steamer Helvetia between Cape Magda-
lene and Fame Point. The katter boat
was strus lene and Fame Point. The katter boat
was struck amidships and cut in two.
Her crew was saved. The Empress of
Britain returned to Quebec with her
bow bady stove in and her fore com-
俍 partments filled with water. fore com The rebel band in Northern Mexico are
now using guenilla methods. The feder now using gue. Tracey Aubert are well scattered over the entire territory and
will fight the rebels after the latter's Complications are reported in the set
doment of the dock workers, lement of the dock workers' strike in reached an agreement with the employers and declared the strike off. The
workers, however, affirm that the representatives betrayed them and that they will not consent to the terms of the agree ment made. Just what the outcome
this will be it is impossible to state. MICHIGAN FAIRS FOR 1912
The following contains a list of fair:
0 be held in Michigan during i912, Most to be held in Michigan during 1912, Most
of the dates have been received from fficial sources but should anyone have
ositive knowledge of incorrectness in the list we would appreciate greaty if they would advise us with correction.
Also, if any fairs are omitted we would be pleased to receive information regard
ing them. The list is arranged ing them. The list is arranged as fol-
lows: First, the name of fair; second, ows: First, the name of fair; second
where it is held; third, the date.
So. Michigan State Fair, Benton Har or, Aug. \(13-16\) Vassar, Aug. 21-24.
Tuscola Co., Vass City, Aug. \(20-23\). Caro, Caro, Aug. \(26-30\).
Flint, Flint, Aug. \(26-30\). Flint, Flint, Aug. 26-30.
Gratiot Co., Ithaca, Aug. 27-sept. 1. Gratiot Co, Ithaca, Aug. 27 -sept. 1 .
N. E. Michigan, Bay City, Sept. 2 -6.
Antrim Co., Bellaire, Sept. S-6.
Barry Co., Hastings, Sept. \(2-5\).
Cass Co., Cassopolis, Sept.
H-6.
Howard City, Howard City, Sept.
Marquette Co., Marquette, Sept.
M-6.
Sanilac Co., Sandusky, Sept. West Michigan State, Grand Rapids, Deckerville, Deckerville, Sept. \(10-13\).
Menominee Co., Menominee, Sept. 10 Thumb District, Port Huron, Sept. \(10-\) Michigan State, Detroit, Sept. 16-21. Allegan Co., Allegan, Sept. 17-
Berlin. Berin, Sept. \(17-20 \mathrm{~F}\)
Cadillac, Cadillac, Sept. Calhoun, Marshall, Sept, 17-20.
Delta Co., Escanaba, Sept. 110.
Emmet Co., Petoskey, Sept. 17-20. Delta Co., Escanaba, Sept. 17-20.
Emmet Coo, Petoskey, Sept. 17-20.
Greenville, Greenville, Sept. \(17-20\).
Huron Co., Bad Axe, Sept. \(17-20\). Otsego Co., Gaylord, Sept. \(17-20\).
Cheboygan Co., Woverine, Sept. \(25-27\).
Chippewa Co., Sault Ste. Marie, Sept. Copper Co., Houghton, Sept. 24-28.
Ionia Co., Ionia, Sept. 25-27.
Inter-State, Kalamazoo, Sept. \(23-28\).
Lenawee Co., Adrian, Sept. 23-27.
Milford, Milord, Sept. 24-27.
North Branch, No. Braneh, Sept. \(25-27\). North Branch, No. Branch, Sept. 25-27.
Oceana Co., Hart, Sept. \(24-27\).
St. Joseph Co., Centerville, Sept. 24-27.
Armada, Armada, Oct. 2-4. Armada, Armada, Oct. \({ }^{2-4 .}\)
Eaton Co.. Charlotte, Oct. 1-4.
Hillsdale Co., Hillsdale, Sept. 30 -Oct. 4. Hillsdale Co., Hillsdale, Sept.
Imlay City, Imlay City, Oct.
Osceola Co., Evart, Oct. \(1-4\). Fowlerville, Fowlerville, Oct. 8-11
State Fairs and Expositions. Ohio, Cos Moines, Aug. \(22-30\). Canada, Toronto, Aug. 29 -Sept. Nebraska, Lincoln, Sept. \({ }^{2-6}\). Now York, Syracuse, Sept. \(9-14\).
South Dakota, Huron, Sept. \(9-13\)
W. Michigan, Grand Rapids, Sept Wisconsin, Milwaukee, Sept.
Michigan, Detroit, Sept. 16-21.
Illinois, Springfield, Oct. \(4-1.2\) Mlinois, Springfield, Oct. 4-1.2.
International Dairy Show, Milwaukee, Internatio
ct. \(22-31\).
National

MICHIGAN FAIRS THAT SHOULD BE One of the first and best fairs in Mich igan is the one held in Tuscola county at
Vassar on Aug. 21-22-23-24. Horse races Wm. Grant, Sec.
The Caro Fair and Night. Carnival is
loked upon as one of the most sur ful fairs in Michigan. It will be held at at
Caro, Aug. \(26-27-28-29-30 . \quad\) F. B. Ransford, Sec.
The Sixty-third Annual Flint Fair will
held Aug. 26-27-28-29-30. This fair will be a great one and not to attend
will mean loss of profit and pleasure.
The Southern Michigan State Fair this year promises to be the "Biggest Yet.,
After much study and thought the board of directors have placed the dates Aug.
\(13-14-15-16-1\), believing that a date at
this season of the year in this particular location will give the best results. There procodures and many novelties offered in
the way of free attractions. The bulldings and grounds are now in the hands
of the ground-keepers and will be reno-
vated and renewed in a large degree.

LITERATURE POETRY
HISTORY and INRORMATION


The FARM BOY an \({ }^{2}\) GIRL SCIENTIFIC and MECHANICAL

This Magazine Section forms a part of our paper twice a month. Every article is written especially for it, and does not appear elsewhere A CASTLE TOWN AND ITS CHIVALRY.
 rany" it is very likely, that not one reader out of a thousand had the slightest did not return. There was a day when die for his country. Patriotism is only a idea where the place was. Sixty years ago nearly everybody in tome something about the twn on ture, with its imposing towers, stands did in '51. Now the world rushes by behind the iron horse, and the old college is far away from its pathway. That explains the difference. That is why the ancient town and its quaint school buildings are only a memory to white-haired doctors. lawyers and business men scat If College Mound were in Switzerland, or nestling amid the pleasant hills of old England, it would long since have be-
come immortalized in the printed record of history and of the magazines. .The average American doesn't about his own vine and fig tree esque about his own vine and fig tree
To him the place would simply be cai To him the place would simply
alogued among the "lost towns." possibilities of a restora
Leaving the ridge ro
Leaving the ridge road on the east you drop down into the valley, which you
cross at a lively gait because the road is smooth, and then begin an ascent of the long hill, on the crest of which arises, out of the mists, as an apparition of the
dead and forgotten past, the big structure which gives the town its name. Nestling
 about its feet on the hillside, like the cottages of its tenantry, are the homes stripling as their captain, and as their 45 , and lived 73 years after being denied and began figuring on how of those who have not forsaken the old leutenant a dark-eyed, clear-headed the honor of dying for his country. could keep the case in court. It looked town with its glory. \(\quad\) to one of the most beautiful maidens in chap," he said, and he just kept on liv- in the newspapers and law magazines ais Sir Walter Scott, with such a subject, all that country. Destiny took the cap- ing long after those who had turned him a curiosity of literature. The old tesmight have called us about the fireside tain through a hundred battles, right up down had died of ohd age. .
of a stormy winter's night, and peopled to the cannon's mouth, with flashing Robert's son. Smilh, born and reared lawyers with a Chinese puzzle. the place with fierce men-at-arms, sworn sabre, and brought him home to his loved on the great hul, was an illiterate man, The circuit judge took the will out of to the bidding of some mighty baron. ones. It took the dark-eyed lieutenant but with plenty of good, hard sense. As the clerk's office one night and sat up For the foray, the scout, the tourney he along the same path up to one hot sum- he was getting along in he a mule kick- with it at home. Next morning he came would have the wide swells of blue-grass mer day. The troopers were guarding a ed him and he thought he was going in into court with the problem solved.
meadow, the soft carpeted forest, the southern railrcad embankment, when it die. So he called for foolscap paper, a "Gentlemen," he said to the array of smooth plateau. Calling up the past he sent a minie ball squarely into his fore- quill and some ink. Then he disposed of lawyers, "it is very clear to me that the would have the old tavern, with its head, and the sweet-faced young, woman, his lands, houses, horses, mules, catte old man meant so and so," and he went
swinging sign, the six-horse stage coach waiting in the shadow of the great ca- and farming tools among a score or so on, taking up that funny looking docu-


Another View of the Old Town with the college Building on Mound in Left Background.
running from the Missouri river to the thedral structure, laid aside her pretty of descendants, and when he had finish capital city of Iowa, the huntsman with clothes and selected a dress of black. - \(\epsilon\) d his task he looked at the documen plumed hat and flint-lock rifle, the wind- "You go to the hills," said Opie Read complacently ing horn and the long lean hounds of the once to the writer, when you wan chere!" he said to the children, "I chase. For College Mound had all these character. The feud was born amid the havo made it so plair that you won
glories when her big building was young. hills, not on the plains. An excess of need to spend any money lawin' over it," glories when her big bulding was young. hils, not on the plains. An excess of the will began thus: "in the naim of tion his opponent laid down. Then the were some who went to war from the When you broaden the feud you have god amen." In the 2,000 words of it Jimps" made at the Baptists. Before
long both debaters joined forces and stores and cafes are brilliantly illumi- "It belongs to Mr.Norton-so take it "Now bring me some water and calright and left. "Uncle Jimps" had taken is a street light. To College Mound, and Mr. Norton, seated on his front porch, his opponent into camp, and the Baptists who had come to cheer left to weep. When the Civil war was at its height word reached College Mound that "The Black Horse Cavalry," of Iowa, were ton for the startling purpose of wiping out two good towns. Many citizens of College Mound were then fighting in the south, but there were plenty of old farm-
ers about the big hill, and they gathered their flint-locks, scythes and corn-knives and hastened to the threatened points. The "invasion" it was said, was schedied as black Friday. It was a dark, rainy day. The patriots from College Mound patrolled the streets all day waiting to
spit the "Black Horse" and their riders, but the enemy never came, and the College Mound army was convinced that the of the reception awaiting them.

\section*{of the reception awaiti} cus, a merry-go-round or a moving pic ture show. Its only annual diversion is for ten days every summer. Then the hustle, for the campmeeting brings many
is a street light. To College Mound, and
for miles around, it is the harvest home occasion, and everybody quits work and goes to town. The meeting itself is not the only magnet. It is the social opportunity; the meeting of old friend
casion when everybody is out. For 21 years the Holiness people have held their big meeting at the hill town It was far from the "maddening throng," the lure of
If vast lakes of oil are washing the underworld shores about the College the discovery will be read with interest by the alumni now scattered to the four experts of a far-off state who made a \(\$ 50,000\) wager that there was oil in those parts were not attracted the school-cas tle and its hive of retainers. Their surtle and its hive of retainers. Their sur-
veyors took no account of the almost sacred history that belongs to everything within reach of vision from the tower loft "If we hit it," they say, "we'll make a burg out of this place. Wonder you this propesition yourselves."
It is the spirit of the age. Sir Walter Scott stanes no show with steam shovels, pipe-lines and railroad cars.

\section*{A WATERMELON WAR. \\ BY ADELA S. CODY}




an aura of arnica and ritch-hazel
"Well?" she questioned, cur

"Madam, I have called to protest against the laxity of yGur control of that
young ruffian who assaulted my son and as ruffian who assaulted my son an him."
Mis. Fenmore gave her head a toss and said, scornfully, "Poor little Sissy-boy, naughty Eddie? It's too bad!",
Mr. Norton Mr. Norton grew red with anger. "You re determined to send that unfortunate goy of yours to the gallows by encour"From my soul I pity the child who is actually spurred into rowdyism by the parent whose aim should be to safeguard him against it."

\section*{mpie parantal Clarence is a shining ex} ampie of parental influence in restrain-
ing a boy from rowdyism," sneered Mrs. Fenmore. "Look there!" She waved who had appeared in the doorway beside ye and rumerous pieces of court plaster Mr . Norton frowned fiercely, not much at this evidence of his son's pugil tion that filled his bosom at the thought as he had received in the battle. Disguise it as we will, we all admire the
\(\qquad\)-ustify the-the-action of my son," he
inally stammered; "but I shall see the
he is punished on an accordance with the
gravity of the offense."
a make him drink pink lemonade
aps her shaft struck
"At least I shall see that he is not
child who has the misfortun
The principals in the case grinned re
ssuringly at each other. The storm are
cellent prospect of excitement before
Clarence tried to turn up his nose in
effect that Eddie laughed aloud, and th
patches over his face became so amusing
in thoir grotesq
with dignity.
Mrs. Fenmore the house,
Mrs. Fenmore, sharplyThat evening Mrs. Fenmore cut themelon from its vine and ordered the theored boy who was her assistant garden-
'Mis' Fenmore Mr. Norton
't gwine ter give dat man shorelyfine mellun? It give dat man dis yere
beheld a negro boy approaching very slowly, bowed beneath what seemed to be an enormous hump upon his back. He was surprised to see the hump transformed into a huge watermelon as the boy unstrapped it and laid it carefully upon the porch.
'Mis' Fenmore senās yoh dis yere,' was the rather sullen explanation of the gift.
Mr. Norton dropped his cigar and smil indulgently.
"It's just like Kate-all fire and towblazing out at one in a perfect fury, but never too proud to acknowledge she is in
fault and always willing to make up again. She hasn't changed, I find, since we quarreled and made friends almost daily in old Kentuck," he mused, almost audibly.
\(\qquad\) went on the boy, handing him a small white missive.
Mr. Norton took it with a feeling intense satisfaction and turned on the light in order to read it. But the look speedily changed to one of indignation as he perused the curt note.
"Take that thing back and tell Mrs. Fenmore that I do not wish to have any communication with her whatever.

\section*{an already see the poisonous infl
her son's example in Clarence."}

Clarence had come out on the porch and was eagerly inspecting the watermelon. A leok of keen disappointment
crossed his features as the negro, with crossed his features as the negro, with a grin. proceeded to strap the melon on 'Mis ter have his son pizened, an' here's de meliun back," was the message the boy gave as he began to unstrap the
melon in Mrs. Fenmore's dining-room. "The idea! Does he take me for Lucretia Borgia? I won't have his hateful old melon on my place one instant
longer. Return it at once!" cried Mrs. Fenmore, with blazing eyes.
Eddie, whose face had shone with Eddie, whose face had shone with
pleased anticipations at the sight of the pleased anticipations at the sight of the
returned melon, sighed regretfully and glanced longingly at the forbidden fruit Sambo locked at her protestingly.
'But, ma'am, he says dat he don't
"Take that melon back this instant!" commanded the lady.
"My back's half broke now, totin' dis
want it," grumbled the boy in an aside o Eddie. "White folks am shorely queer.
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)ol' mellun, nohow," was the return mes.sage as the boy again dumped the melon
"Hey-here! Didr.t I tell you that I
more? Take that object out of my sight
hat you came bothering me."
"Say, boss, you might as well take
said Sambo, earnestly. "Dat wom-
'sists dat de mellun 'longs ter yoh,
sah, an' yoh jest try a slice-"'
"e," commanded Mr. Norton.began to put and reluctantly the negr
spised melon. Before he had them buck-
followed by a blaze of light flying along
scream rang upon the air and Mr. Nor-
Where is Clarence?"
oad as I cum in, sah
Mr. Norton ran down to the scene two
white-faced men were lifting a lir
the figure from the road beside it.
the figure from the road beside it
"He ran straight in front ofthe men as warning, apologized one
across his eves with a
nce!"

They carried him into the recention hall and laid him on the sofa.
In an agony of apprehension Mr. Nor ton looked on while Mrs. Fenmore deftly. examined the unconscious child with the
skill and knowledge of the trained nurse she looked up with an assuring smile. "Don't be alarmed, Francis, he is not

\section*{gne.}

When Clarence revived he found himself supported by the arm of Mrs. Fenmore, while his father stood gazing at him with a look of such anguish in his eyes that the boy's sole desire was to chase it away.
"See, Papa, I caught itf" he smiled, holding out the firefly which he still held in his clenched hand. "But it must be different from the ones we've always had
here for, just as I touched it, there was a head someway. It must be a new kind of electrical tirefly, although it looks just like the others."
"The firefly that knocked you down was an automobile," said his father. "Ar ou hurt badly?"
"No, I just feel shaky-and my legs are wobbly," answered the boy arising and going to his father.
The gentlemen who had waited to learn the extent of his injuries looked relieved. They offered to send medical assistance but Mrs. Fenmore assured them that it was unnecessary and they went "Is
Is there anything I can do for you, on?" asked Mr. Norton, anxiously. "Ts there anything you would like?" more here always, and I'd like a site her watermelon right now," was the prompt rejoinder.
Eddie, who had stolen in as a quiet meloner, into the out and
"Here it is, Ma!" he cried
Mr. Norton looked questioningly at Mrs. Fenmore.
What do you say, Kate? Shall we divide the melon and unite our future
lives, forgetting and forgiving the quarrels and mistakes of the past?"
She blushed as rosily as a girl and She blushed as rosily as a girl and said, laughingly, Get me a knife, Francis! .That poor motherless child shall "Golly, but dis is de premium mellun" Golly, but dis is de premum mellun, porch, his face buried in a semi-circle of the juicy, red meat, while on Mrs. Fenmore's front porch Mr. Norton lingered to say, "Those boys of ours, Kate, are fine plucky little chaps and it would be a pity to have them fighting each other when they ought to be taught to direct their blows against the evilas of the age. Since they have inherited their militant qualities from us, we must help each other to show them how to use them for the good of mankind."

\section*{THE GLORIFIED COMMON DAY.}

When the evening shadows gently falt
And your setting sun is slipping \(0^{\prime}\) And the brink, sung is slipping o'er
When through Time's telescope you backward look
Across the vanished years and thinkAcross the think-
and
Vatching the pictures Memory shall reWhich one will you judge then-the best Will the picture be of childhood

\section*{When you plucked the Springtime blos}

In the sunshine of the May?

\section*{some soft, deep, silvery moonlight} Or some soft, deep, silvery moon
As you tarried at a gate
y the fragrant blushing roses
Will it be the flush of victory,
That ethereal hour of fame
That ethereal hour of fame
Whan the throng hushed into silence
or that fiercer, harder, conflict, ith strained nerves and muscles When you wrestled with the Angel
Through the long hours of the nigh
That picture of the shadows
Veiled in heavy mists of rain,
Will the picture you remember paint
\[
\begin{aligned}
& \text { vill you love the minie } \\
& \text { from the common day? }
\end{aligned}
\]

Days you gladly bore the burden Hearing songs of joyous laughter Guiding steps in ways untried;
Banished tons of childish troubles With the magic of ycur smiles,
Reaching golden cords of prayer
Past the intervening miles?
When the evening shadows gently fall
And peacefully your sun slips o'er th When through Time's telescope you
Across the years, and think-and think
-and think-
The sweetest picture Memory shall then
Will glorify the Common Day-the best

LEGEND OF THE CORN.
By many by l. A. thornton. This legend quaint, of yore was When dandelions turned to white And thold. who listened, aged Wh truth. When Iroquois were bold and stron One led the chase, however long,
His steps a king's, his brow serene, With tireless heart and courage high

And in a wigwam, dark and low As fair as fairest flowers that maid, On meadow-side or woodland grow With heart as tender as a dove-
The brave beheld the maid and turned
His head to pay her tribute due; The maiden looked on him and turned For him to speak, as maidens do. And then they later named the date,
When she should go to be his mate.
By nights he watched, in woodland near And every sound that reached his ear Left him to anxious doubts a prey, Until, one night, he woke and found
Her footprints in the yielding ground.
The maiden, walking in her sleep, A trail that easy was to keep, And soon he came where he could see
Her fair young face, her tight closed They knew not terror, nor surprise With eager haste to draw her near,
The lover rushed, in wild alarm. The maiden, wakening, screamed in fear And as he clasped her in his arm
she trembled, stiffened, shrank and Into a plant, unknown and strange. He sought to clasp her hands, as fair
As lily buds at early morn, As lily buds at early morn, He heid but ears of yellow corn.
And where her locks had floated free
But tasselea corn-silk could he see. This is the legend told of yore,
When Iroquois their camp-fires lit And when the corn its fruitage bore
They saw the maiden's form in it For so, the story, said, was born
The first silk-tasseled stalk of corn

EXTRACT FROM AN AUTOBIOGRA-
by uncle qetawal.
children, Alice and James, ha The two children, Alice and James, ha bordered my special seed corn patch near the house. They were tired and Alice and "Shep, the dog, were lying on the sod near a deep green stalk of corn, whife James went doy Shep was soon a warm, sleepy day. Shep was soon
dreaming of gophers, when Alice was dreaming to hear, in a weak but audible surprised to hear, in a weak but audible "Good afternoon, Miss Alice; how
voice, warm the sun is and how quickly 'Shep tired. I have tried to make you hear me for several days but you have gone to
the house before it was quiet enough There is a weed feeding upon the soup my roots need; I wish you would pull mother and after being broug with my him out. Thank you. I shall do better home by your father. now that the robber is not fattening himself at my expense in the shadow we
make while I suffered because of the heat.
talk? Why, Alice, all plants talk but attached by horny points in rows not with words. Look at my neighbors, common center nursing tube. You call They are suffering from thou? Certainly. the cradies kerneis or grains and the moisture. We drink, eat, and sleep the of corn same as you do and you know how you "All of my family are very proud of feel when you are thirsty. Think, then, the way every mother cares for her cora what must be our condition, tied here in babies. Why shouldn't we be? Are we one place, if we cannot get water. Yes, not monocotyledons? The health and those drooping leaves, with curled edges comfort of each little bud as it is being
that emit a dry sound as they strike the ripened saps the life blood of its mother that emit a dry sound as they strike the ripened saps the life blood of its mother
body when moved by a breeze are tell beyond recovery. There are many plants body when moved by a breeze are tell beyond recovery. There are many plants
ing a story. I call it talking. No, I like that weed you pulled-that can raise ing a story. I call it talking. No, I like that weed you pulled-that can raise
am the only stalk that can speak in baby-buds year after year and not die words, and I can only do it on sleepy because of days like, this to tired children who are family. esting. So our days are often dull, but "Mother knew when she first arranged here are lively times here in this corn the threads of silk running from each of on moonlight nights. \(\quad\) but a short time to live, so she devoted "A moonlight nights.
nust absorb such food as is near them the rest of her life
I am told that many of the plants are a large number, but Not only is there thus made sick and die. You see we provided with condensed nutritious foo cannot choose like you; the happiness of for a future use, have its own horny our short lives then depends upon the point connection buried in the breast of seedbed prepared by the farmer to a the nursing tube (the cob) and a from soil to be mellow and rich to a great common injury. She held us up while depth, porous and filled with humus; it we nursed through the cob the thin soup holds moisture much better than the that Dame Nature had first helped mothfields and has a better class of food, so er to cook in her leaves by the aid of the
we live better than the field corn. \(\quad\) outside force, the sun. How mother "You would like to hear about my life emitted oxygen you need and inhaled the w


An Ingenious Farm Boy and his Docile, Faithful Friend. A youthful reader, living in Macomb county, writes as follows: "I though gan Farmer? My name is Donald Warren and the dog's name is Bose Michithis rig, all but the wagon. We are good friends together. I hitch Bose up when-
must know it now; but, like all lives, you can study at home, but how she child. My friends, the summer breeze the insects, the birds, Grandmother and ight visitors have informed

It seems I first grew by the aid . , on my mother's body in a bed like baby corn plants, in horn-like cradles,

\section*{GETTING THEM INTERESTED.}


Six-year-old Don Reid and his Yearling Colt, Nettie.
county reader, Mr. William Reid, sends the postcard photo from A Tuscola county reader, Mr. William Reid, sends the postcard photo from
which the above is reproduced. It is evident that he believes in getting those
born upon the farm interested early in life, the picture showing his six-year-old born upon the farm interested early in life, the picture showing his six-year-old
son, Don Reid, exercising a yearling colt that has already been broken to harson, Don Reid, exercising a yearing colt that has already been brok
wasted soilter wa a clod is so much

hardening or crusting of the surface that


KODAK
means photography with the bother left out-means that the once difficult processes have been so simplified that you can readily take good pictures by following the perfectly simple directions that accompany each camera.
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Kodaks load in daylight; plate must be require plate holders whom. Kodak films are light ; glass plates are heavy; Kodak films are nonbreakable; glass plates are fragile. Kodak films may be developed in a dark-room but are preerably develbroad daylight. Glass plates must either be developed in a dark-room or loaded into a tank in the dark-room-the film cartridge system is the only practical means of entirely eliminating the dark-room. You may easily develop your own films or may send them by mail for development. Sending glass plates by
With a Kodak there are no extra attachments to buy; it is complete, ready for use. With a plate camera you must buy extra plate-holders or in counting the cost.
Kodak films give better results for the amateur than glass plates because they have the orthochromatic and come the harsh lighting conditions hat he encounters.
Plate camera manufacturers advertise the fact that professinal photogtherefore you should. Its true that professional photographers use plates n their studios for their regular work because their dark-room is only a few eet from the spot where their camera stands. For heir vacation trips they use Kodaks mostly, just the same as ther folk
Kodak photography means less rouble, better pictures
Ask your dealer or write us for Kodaks \$5 rated Kodak catalogue. Kodaks, they work like Kodaks, to \(\$ 12.00\). Work like Kodaks, \(\$ 1.00\)

EASTMAN KODAK CO.
ROCHESTER,



Ind fly back inte the timber. There were
a few scattering trees far out on the a few scattering trees far out on the
prairie, and also some clusters of bunch prairie, and also some clusters of bunch
grass, while far across, fully a mile away, grass, while far across, fully a mile away,
was a line of dark green timber marking
the course of a creek that ran into the the course of a creek that ran into the When they were too
oack I began to crowd them a little more, keeping my eye on the big white-winged gebbler. With about 300 yards between them and the edge of the woods I crowd\(\epsilon d\) them still more, for up to this time
they acted as though they might turn back towards the woods at any time but as they got farther out they started run-
ning straight ahead. Then I put my ning straight ahead. Then I put my horse to a run and began to gain rapidiy on the turkeys. The big gobbler was
ahead. When I came within perhaps sixty yards of them they scatiered. Some rose and flew stratght ahead. Among
these was the gobbler. He was very big, and made a tremendous roaring sound
with the flapping of his wings. You have no idea, unless you have heard makes in flying.
When I saw him rise I put my horse no his greatest speed, leaning over his
neck, shaking out the reins and s'apping him on the neck to encourage him. He him, and I never knew him to run so ever, the gobbler gained on us frightwas a big heavy turkey, and very fat. flying, and by his flying so near the ground. He had not risen high, and
gradually came lower and lower, for a big turkey never flies high if he rises from the level ground, as he is so heavy. to the ground with a thump and began running. I was at least 200 yards behind
him when he struck the ground. I could tion well, and felt he would run straigh ahead when he came down. As my horse was going at terrific speed it wasn't long
before I got sight of him again, running Pretty soon we were close bunch grass.
porm to again. As we contine close on to him to rise and fly again. He flapped his Wings terribly but couldn't gel off the
ground. By this time he had begun to run as
though very tired, and wobbled from side to side. It didn't take me many seconds yard or so to the left. I struck at him
with a large stick which I carried, and a new direction. My well trained pony and we were soon close upon him agan.
As we overtook and passed him I struck
at his head but missed him, and he turnat his head but missed him, and he turned in a different direction. When
my horse again the turkey was near a
large clump of bunch grass. As we began to crowd him he commenced running
around this bunch of grass, weaving from side to side as though about to fall. He ran around the clump of grass three
or four times, then made a dive into the or four times, then made a dive with on! y view. I jumped off my horse
im by both legs and dragged him out. He fiopped frantically and al-
most tore loose from me, tired as he was. most tore loose from me, tired as he was
I didn't realize what a monstrous big turkey he was until I had him in my
\(\qquad\)
\(\qquad\)
\(\qquad\)

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\section*{THE MOTHER-IN-LAW'S SIDE OF THE CASE.}

T
HE usual large crop of June brides occasionally seems to interfere? Suphaving been duly harvested, much

day, but through the eyes of your moth-
er-in-law. We are trying to see if she hasn't some grievances.
There'll be a thousand things on which
 simple folks "back home" with the fact that she was rapidly acquiring "culture. Mother, too, soon discovered that the way had a, bect young lady who understor justmoder pad her instep so as to show off he patent leather slippers to show off he vantage, how to remedy defects of figur aw. How output pleases the mothers-inlaw. How things are going with Mrs.
Mason since John married that Susie Dimples and tock her in with his mother
is varied by wonderment as to how Susie is getting along with that particular Mrs. the thought behind it is the same, there is bound to be trauble between the two women. We have all of us got into the habit of thinking with the jokesmiths, Though why the jokers always make it the husband's mother-in-law who stirs things up, when nine times out of ten it
is the other way around, nobody seems About once out of one thousand times you hear of a man having trouble with out of one hundred it is the wife who has trouble with the husband's mother on that a man and woman will agre reason for these "in-law", but the chle is that both women are expecting trouble would come, and nefther one makes an It is the usual custom to sympathize am going to take sides with the older enough sympathy, and while she may no deserve very much, still I think she has
a few grounds for complaint on her side. Why, the two women don't even look at the man in the case from the same
point of view. The wife regards him as a man, the wisest, best man in thr wolld, who needs no advice from anyone
because he is a fountain of wisdom himbecause he is a fountain of wisdom him those brief days known as the honeyshe has had to watch over and chasten him from going plumb wrong. She has most impartiality, advised him and threatened him, flatiered and ridiculed end she desired. She held his hand when his first tooth was pulled; she knew al
\(\qquad\)
fearful and wonderful manner, and shehim how to do it. She knows all hihe had one. In short, she knows he i
regard him as a man of sound mind and
not refrain from a snort of disgus.listens to that Susie Dimples, whom themother has watched grow up from pig
fair minded jury of daughters-in-law
n the mother be blamed for feelingere a real wise woman she would skillfully hide that hurt feeling and refleeway the bey's father did 30 years agoBut the truth is that she is a very human woman and when she is hurt sheshows it some way or other
\(\qquad\)

\section*{"FINISHING" THE GIRL'S EDUCATION}

A serious problem arises in many miles away. A personal visit to the companions. Her music was once more me family school impressed the mother with the taken up under the patient, plodding is es- desirability of the plan and she was as- leacher who had built the foundation of country or in a small town where the most carefully reared girls were admit her musical education. New and at, educational advantages are limited to the ted. Although the expense was rather and she was allowed to plan a delightirst eight or ten grades. In the major- heavy for people in their circumstances, ful and instructive course of reading for
ty of such cases, a good high school is it was cheerfully made up by parental the whole family. The younger children eyond easy reach, and the only alter- self-denial, and even by the selling "finish" her schooling, or keeping her home and letting the education go The average bright girl usually leaves 13 and 15. To take a child out o school permanently at that early date ing with her the highest hopes, fondes reach of the immediate home influences loving group ieft asty prove that immature stage may easily far more disastrous. Either course is of their pleasures that "sister" migh ful parents will hesitate before adopting astic letters after entering seemed to jus ither unqualified
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dle course might be discovered, it would

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Of course, there are girls and girls.
Some are staid and sensible at seven- \(\qquad\)
\(\qquad\)
\(\qquad\)
the plan should be adopted only unde
llowing cited as a fair average resultwell as possible, was
igh school was too far away to admerer sending
own. The pace was rather rough and
school, about hernown to be objectionable compantonsher. Besides she would be compelledhere were no relatives or close friendAfter long and anxious considerationa very select and highly recommended bearding school for girls, in a city 70
 matics, in which she had once partic
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\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)


Tsewing. "Their mother comes first with them, and their own wants are supplied If there are new clothes to be had moth-
er gets hers first and the daughters take to the general rule that it is worthy of
mention. This is not the elder woman's to her children in that home," she con-
tinued. "It is the girls and not the prepare the breakfast. Most of the cookall their own sewing and mending."
\(\qquad\)
\(\qquad\)
\(\qquad\) bit of work in the flower garden and acts as counsel in whatever way is required. work she doesn't do it."
"Then I fell to thinking how nice it
would be if all mothers were as sensible as this one was and brought up their
daughters to work and to wait upon daughters
\(\qquad\) take years from the face of many a
stringling, hard-worked mother? And
\(\qquad\)
\(\qquad\) people exercise widens the sympathies and gives a broader scope to human in-
terest which is invaluable in character building. Let us strive for more thought
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
as well cooked cereals, beefsteak, lamb milk and eggs, white or brown bread, and milk and eggs, white or brown bread, and no tea, coffee, candy, cake, pastry or
stimulants of any sort. Take plenty of gentle exercise in the open air, don' worry, and work as little as possible. 6. Send a good clear photograph or good hand drawing of your fancy work, with carefully written instructions fo making it. Write only on one side the paper and use a typewriter is posyour writing is distinc
Household Editor:-I am going with a
party to Put-in-Bay. What would you advise me to wear, a foulard dress or a wash dress? I have a new foulard
want to wear, bui my mother thinks I
chould wear a wash right?-Molly.
By all means wear the wash dress for an outing. a formula for making baking powder?-
New Cook. New Cook. Sift one pound and two ounces of cream of tartar, a half pound of soda and one-fourth pound of cornstarch to-
gether five or six times and put in an gether five or six timht can. It would be better to make only about a quarter of this proloses its strength much more quickly Household Editor:-I have a cake
ecipe which calls for lemon juice but it does not tell when to put it in. Can you
suggest the right way to mix the cake? Mix the lemon juice with the eggs and Housiehold Editor:-My little flour.
girl is
very funny about her eating. She is three years old and never eats anything
unless I coax her. She drinks a great deal of milk, and seems to feel well.
What would you advise me to do?-
\(\qquad\)
\(\qquad\)
\(\qquad\) eat is suitable to her years, bread or
toast, eggs, well cooked cereals, no candy or rich desserts and but little fruit and vegetables. When she is ready for other
\(\qquad\)
\(\qquad\) three hours before you wish to fry it flour and fry as usual. This way you
save all the fat and the pork browns nic
MICHIGAN FARMER PATTERNS.

These patterns may be obtained from the Michigan Farmer office at the prices
named. Be sure to give pattern number
and the size wanted.


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\section*{Anty Drudge gives good advice}

Mrs. Cropps-"Now, Mame, there's no use going on that way about your white petticoats. I can't parboil myself to pieces every Monday just because you go to parties and dirty your starched things. That's plenty good enough to wear on the straw ride."
Anty Drudge-"Why, Mrs. Cropps, your Mame wants to look as nice as other girls, and she can, too, and you won't have to steam and boil and slave to do it, either. Just get a cake of Fels-Naptha Soap and use cool or lukewarm water. Why, Mame could wash her own skirts in no time herself.'
Perhaps your daughter wouldn't want to leave the farm, if the work was not so hard. Young folks get tired the same as older people.

If you could lighten Monday's work, wouldn't it make the whole week easier?

If you try Fels-Naptha Soap once, you'll find the secret. Fels-Naptha Soap means as much to the women-folks on the farm as any new invention means to the men-folks. Fels-Naptha Soap washes everything-overalls, blankets, the finest white goods and the softest flannels-without hard rubbing or boiling. Directions are clearly given on the red and green wrapper. For full particulars, write Fels-Naptha, Philadelphia

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in a superior way and has a superior effect. The lathe
springs forth instantly and easily at the slightest rubin ta \({ }^{132}\) Use itno the provement. Start using JAP ROSE today. Be convinced of its superiority.

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varranted For Twenty- Five Years.


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GRANGE
Our Motto "The farmer is of more
consequenee than the farm, and should be
first improved."
 In most cases where a rally will be
held this summer, the initial steps have proximate time and the chief speaker there are a number of minor details
which have weight in the final success or
failure of the day which it is not out of of a rally centers upon the presence of
the advertised speakers, it is of utmost
importance that no slip occur in the arrangements for such helpers. Explici
directions as to date, place and how to
reach the rally should be sent well in advance to the speakers engaged and an
acknowledgement received, in order that each party may kn
derstands the plan.
gency at the last,
expected to make present, going to extra expense and ex nothing is more disastrous to
effort than failure at this point.
2. A program being a strong feature topics, be handled by the speakers, and that in a concrete manner without overis not always an easy thing for a pro-
gram-maker to manage, but it is an aim
to keep in mind. There is no dearth of to keep in mind. There is no dearth o
five topics for discussion this season; the
only trouble will be to select the mor important ones. The question of equa
suffrage should be upon every program,
whotever other subjects are brought for ward, as it is not only a "live topic" bu poused during the present campaign
season. Stirring music, and lots of it, seems
as essential at a rally as a good dinner.

\section*{sing. This is really not so difficult i
so doryboly the} choruses repeated until people eatch the
spirit of the "general sing." It pays,
always and richly. The catchy, suffrage
songs set to old tunes meet this need admirably and provoke thought.
3. Preparation of the grounds play no inconsiderable part in the outcome of the
day. Clearing up a little each year, if
the picnic is an annual affair, and ad-
ding conveniences and equipment gradu-
elly is the best way. Provision for needs ally is the best way. Provision for needs
of people and horses should be made,
looking to their eating dinner comfort-
ably and spending a delightful day in the ably and spending a delightful day in the
open. One important item, all too often
overlooked, is to place the seats near
enough to the platiorm. Voices are swept
away in open air by even a slight wind. 4. The esthetic side of the day should
be provided for in effective decoration.
The simpler this is, the more it will
comport with the beauty of comport with the beauty of the outdoors.
Nothing excels a large "Old Glory" hung
over the entrance, backed by the living green of the trees. Add, this year, some striking : yellow suffrage banners and
streamers, and little else need be done, streamers, and it be to bank cut branches of trees about the platform. whole-souled, joyous soclabtion, I wou have a committee on reception, self-ap
pointed or otherwise, meet people a they gather, direct them to the assign ments of the grounds and make them ac
of the audience during the program to H. A. Hawley and G. W. Bristol, was
lead those who prefer to visit to a dis-appointed to perfect an organization. lead those who prefer to visit to a dis- appointed to perfect an organization.
tance and, in an inoffensive way, to At an adjourned meeting, articles of
maintain order and quiet within hearing association were adopted and the followmaintain order and quiet within hearing association were adopted and the follow-
distance of the platform. All amuse- ing eleven gentlemen became chariedistance of the platform. All amuse-
ments should precede or follow the pro-
gram proper and by no means be carried ments should precede or follow the pro-
gram. proper and by no means be carried
on at the same time. More attention needs to be paid to games and amuse-
ments in which all can join-particularly chi'dien.
6. Finally, the rally is designed to feed
the Grange. Because of this, there ougnt
always to be at hand application blanks,
and invitations to join should be extend-
ed to those persons present who are not
now members.
AMONNIE BuELL.
AMO THE LIVE GRANGES. Newaygo Pomona was pleasantly en-
tertained by Sitka Grange in June. A
well prepared program, a social time and
meals fit for a king were among the
many pleasant features of this meeting.
"Units of Soil Fertility," was given at
tention by M. J. Thompson, of U. S. De-
partment of Agriculture, who explained
in full the elements of plant growth and
tood. Miss Becker, county commissioner
of schools, put forth some forceful
thoughts on some or our greatest needs
in the rural school. Another important,
topic, "Our duty to society and school,"
was well handled by Mrs. George Wa.ren. "How the farm may educate the
farmer," by H. W. Zerlant, and "Wom-
an's Suffrage". Were also given attention tertain Fomona on the first Tuesday and
Wednesday in October.-Sophia Kimbell
Secretary.
Two Meetings of Branch Pomona. Branch Pomona held a very success-
ful meeting with Quincy Grange in June.
Notable features oo the program were
the welcoming address by Miss Leona en Robinson, on the subject, "Is Agricul-
ture the True Basis of Prosperity,"
fine talk by W. Glenn Cowell on primary
election. and an able paper by Mrs. Mc woman's invasion of the business, fiel
improve home conditions?", Butler and
Quincy Grange orchestra furnished music
for the occasion. The Granges repre
\(\qquad\)
\(\qquad\) and an ample supply of all the good
things of the season. The Granges o
Branch county now have a of about 1,350, and most of them are in The Pomona patrons of the county
twere again entertained on Thursday
July 18, this time by Unity Grange a
the beautiful farm home of Unity's mas ter, Bro. M. M. Garrett. The closed bus
iness session was held in the spacious
parlors, after which a feast was enjoyed in the shade of the well kept or-
chard, where a table accommodating 109
persons had been placed. After
\(\qquad\)
\(\qquad\)
\(\qquad\) patrons of the county. The Grange an
its master were given a rousing vote o
thanks. FARMERS' CLUBS Address all communications relative to
the organization of new Clubs to Mrs. C.
P. Johnson, Metamora, Mich.
Associational Motto--
The skillful hand, with cultured mind,
is the farmer's most valuable asset.
Associational Sentiment.-
The farmer, he garners from the soll
the primal wealth of nations.
INGHAM counTV FARMERS' cLUB
HISTORY.
Read by Mrs. W. L. Cheney, on the
occasion of the fortieth anniversary of
the Ingham County Club, held at M.
A. C.
We are told that history is a knowledge
of facts, usually considered dry and un-
interesting, but we will try in the few
moments assigned to us this afternoon
to review a few of the many pleasant
events that have transpired within the
40 years of existence of this organization
to make this history interesting.
First its inception: A few farmers
who were thoroughly interested in agri-
culture in the vicinity of Mason, thought
it would be a good thing for themselvas
and the community to have a farmers'
organization, and through the columns
of the Ingham County News, then edited
by Kendall Kittredge, there was a call
for those interested to meet at the edi-
tor's sanctum Saturday, Jan. 27, 1872.

WANT INFORMATION ? if you want information of
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Hard Milking
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For hard-milking cows or leaky teats. elaxed and cures hard milking where

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 Beaufifully lllusirated Booklet goout Dolkwarop thoo

 WHPAYANT WHY PAY RENT \({ }^{2}+5\)

CENTRAL MICHICAN, Writy for

Rich Potato Farm Near R. R.
80 Acres, s4000, Easy Term

NOTICE TO GRANGES AND FARMERS'
CLUBS.
We will be pleased to publish in the
andigan Farmer the dates of pienies
and gatherings held. Secretaries will
kindly advise with date and place at least 10 days in advance.


\section*{giving the principal address.
In passing I just want to mention that
\(\$ 25\) prize won by this body at the state
fair at Detroit in September, 1880 , when
Nettie Wood put into shape for exhibi-
tion 100 samples of wool of different
breeds furnished by ten men.
(Continued next week).
cLus Discussions.
Children's Day Meeting. The Wash-
ington Center Farmers' Club held the
July meeting with Mr. and Mrs. Frank
Brown, at Social Glen. This was Chil-
dren's Day and the program was en-
tirely in the hands of the little people.
After reading of minutes and miscel-
laneous business, roll call was responded
to by naming your favorite bird. The
program was then turned over to the
children, of whom there were 27 present,
mer \\ giving the principal address.
In passing I just want to mention that
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program was then turned over to the
children, of whom there were 27 present,
mer}



Gunnison, the first mayor of the tow
who cordially welcomed the gatherin
attending different conventions, all we
interested in agriculture. At a meecin
of the commercial bankers the questi
was discussed how to help the farme
grow more food stuffs, when someon
suggested the best way would be to giv
the farmer cheap rates for all the mone
dropped. Railroads are all interested
the farmer having better crops, for
will give them more freight to haul.
hat a substantial basis for continue
prosperity was an intelligent and well
ducated people living in the country
What seemed an adequate education no
o show the growth of agricultural edu-
cation, a year ago there were 900 colleges
and schools where some agriculture was
.
\(\substack{\text { jum } \\ \text { lit } \\ \text { and } \\ \text { and }}\)
city


milkers and springers, \(\$ 50 @ 60\); common
kinds, \(\$ 25 @ 35\).
Hogs-Receipts, 65 cars; market about
5 c lower. Heavy, \(\$ 8.80 @ 8.85\); yorkers,

MARKETS
DETROIT WHOLESALE MARKETS. Wheat.-Grains and Seeds. 31, 1912. Wheat.-Conditions affecting the wheat
trade gave the market a firmer posi-
tion than it occupied a week ago and prices for both cash and future deals are
ruling from one to two and a half cents higher. Much confusion was started by
the report of black rust in North Dakota. The upturn in prices caused by this re-
port was augmented by similar reports
from other sections in this also from Sections in this country and
modified somewhat the Later reports Scare and gave the market a slightly eas-
ier tone. Abroad there is a firm tone with cash wheat finding an active de
mand. The visible supply showed an in Honey. Choice to fancy comb, 15@16c
amounting to 72,000 bu. A vear ago the per lb; amber, 12@13c.
price tor No. 2 wheat was \(881 / 2 \mathrm{c}\) per bu. Apples. New apples are higher and
Quotations for
\(\underset{\text { Triday }}{\text { Thursday }}\) Friday
Saturday
Mondar
Monday
Tuesday
Wednesday
\(\qquad\)
\(\qquad\)
\(\qquad\)
follows: \(\begin{gathered}\text { No. } 3\end{gathered} \begin{gathered}\text { No. } 3 \\ \text { Yellow }\end{gathered}\) Thursday
Friday
Saturday Tuesday
Wednesday Oats.-This cereal shov/s a greater a Harvesting is progressing rapidy and
\(\square\)
week are as follows: \(\begin{array}{r}\text { No. } 3 \\ \text { Standard. }\end{array}\)
\begin{tabular}{|c|c|c|}
\hline Thursday & \(601 / 2\) & 60. \\
\hline Friday & 61 & \(601 / 2\) \\
\hline saturday & 61 & \(601 / 2\) \\
\hline Monday & 61 & \(601 / 2\) \\
\hline Tuesday & 601/2 & \(601 / 2\) \\
\hline Wednesday & 61 & \(601 / 2\) \\
\hline
\end{tabular}

Wednesday \(\ldots \ldots \ldots \ldots \ldots{ }^{61}\)........... \(601 / 2\)
Beans.-Cash beans rute the same as
week ago. October quotations have fluc-
\(\qquad\) Thursday ..................... Friday
Saturday
Monday


Clover Seed.-The quotation for Octo-
ber clover seed remained steady until
Tuesday of this week when a doc de-
cline was agreed upon. The market is
quiet and quotations are as follows:
\(\qquad\)
\(\square\) Cheese,-Steady, Michigan flats, 16@ OTHER MARKETS.

Grand Rapids.
There were 450 loads of fruit and pro-

\[
\begin{aligned}
& \$ 9.85 \\
& 9.85 \\
& 9.85 \\
& 9.85 \\
& 9.75 \\
& 9.75
\end{aligned}
\]

c lower. Heavy, \(\$ 8.80 @ 8.85\); yorkers,
\(\$ 8.75\) @ 8.80 ; pigs, \(\$ 8.70 @ 8.75\); stags, \(\$ 5 @\)
6.25 .
Sheep-Receints, 32 cars; market ac-
tive; choice spring lambs, \(\$ 7.50 @ 8\); cuils tive; choice spring lambs, \(\$ 7.50 @ 8\); cuils
to fair, \(\$ 5.50 @ 6 ;\) yearlings lambs, \(\$ 6(\mathrm{c}\),
6.50 ; bucks, \(\$ 2.50 @ 3\); ewes, \(\$ 3.75 @ 4.50\);
domestic Swiss, 22@23c; brick
Fruits and Vegetables.
Cherries.-Sour are higher and quoted
\(\$ 2 @ 2.25\) per \(16-\mathrm{qt}\) case; sweet, \(\$ 2 @\)
wethers, \(\$ 5 @ 5.25\); sheep, culls, \(\$ 2 @ 3\). fair
Calves-Stteady; tops, \(\$ 1025 @ 10.50\); fair
to good, \(\$ 7.50 @ 10\); heavy, \(\$ 5 @ 6\).
Chicago. July 29, 1912.
Cattle. Hogs. Sheep.

\(\square\) \(\begin{array}{llrr}\text { Same day last year.. } 27,114 & 41,730 & 28,753 \\ \text { Received last week. } 30,853 & 111,115 & 106,236 \\ \text { Same week last year. } 60,351 & 120,840 & 119,525\end{array}\) Cattle buyers turned their attention
mainly today to fat steers and butcher
stock, these selling at steady prices,
\(\qquad\) in good hogs last week that was largely
due to the liberal shipments from here,
aggregating 35,475 hogs, brought about
a large run today and prices 15 c promptly, with the decline largely in
the better class of swine Hogs sold at
\(\$ 7.20 @ 8.95\), cnly one sale being reportud
at the top, it exception is made of part
of a car load at \(\$ 8.40\). Hogs received last
week averaged in weight 240 lbs., com-
\(\square\) ibs. two years ago. Prime lambs were
10 @ 15 c higher today, with a sale of two
double-decks of prime Idaho range lambs

prices. There was a large showing of
range stock.
Cattle receipts of late years have been
\(\square\) other western markets, and the beef
scarcity is startling, the aggregate cattle
receipts for the year to date at six lead-
ing western markets having been in
round numbers about 632,000 head less
than for the corresponding period last
year. Extremely high prices for beef
year. Extremely high prices for beef
and the hot weather have greatly lower-
ed the consumption of beef, vegetables
and fruits being largely eaten as
and fruits being largely eaten, as sub-
stitutes, but the meager, offerings of cat-
tle here last week forced, buyers to pay
advanced prices for offerings with the
slightest claim to quality, and by Thurs-
day a large share of the killing catto
of both sexes sold fully 50 c above the
low spot of the preceding week, A big
share of the beef steers crossed the
\(\square\)
\(\square\)
\(\square\) steers brought \(\$ 8 @ 9.10\), and all kinds of
cattie selling at \(\$ 8.75\) and upward were
as high as at any time since 1873 . Fair
to prime or, as and, heifers had a Free
outiet at \(\$ 4.25\) a8.25, a fancy grade of
heifers being worth up to \(\$ 8.60\) while
heifers being worth up to \(\$ 8.60\), while
cuiters sold at \(\$ 3.40 @ 4.20\), canners at
\(\$ 2.40 @ 3.35\) and bulls at \(\$ 3.50 @ 7\). A stiff
advance in calves put prices on the high-
advance in calves put prices on the high-
est level since January, with sales at
\(\$ 4 @ 1010\) per 100 lbs. The stocker and
fetder trade was che the
\(\qquad\)
\(\qquad\)
\(\qquad\) demand on local and shipping account
frequently exceeding the offerings. Last
week started off with a Monday run of
\(\square\) subsequent days showed very moderate
supplies, and good advances were scor-
ed easily, much enlarged eastern ship-
ping demand being
\(\qquad\) Wool-- Every feature of the wool mark-
points not only to maintaining present \(\square\)
a bid advance as that of the past week
has been witnessed, prime light-weight
shipping hogs bringing the highest prices
of the vear. Flour--Prices are steady, except for
\(\qquad\)
\(\square\)
\(\qquad\)
of the year. As is usual at this season,
there was an extremely wide spread in
prices between prime light butcher lots
and coarse heavy packing hogs, there
being a liberal percentage or sows of a
\(\square\) with nowhere near enough offered. fancy range lambs at \(\$ 7.75\). Feeder
lambs brought \(\$ 5.25 @ 5.85\). Yearlings went at \(\$ 4 @ 5.50\), ewes at \(\$ 2 @ 4.25\) and brought \(\$ 4 @ 5.25\), and yearling feeders
scld for \(\$ 4 @ 4.50\). Horses had to be good in quality and who showed up in the auction ring on offerings consisted largely of an inferior,
thin kind, which had to be sold, if at all,
at concessions in prices. Receipts for several weeks have been fewer in num-
liers tnan a year ago, but they have in-
cluded too few good animals. Inferior horses ate quoted at \(\$ 75 @ 100\) per head,
while superior heavy drafters are worth
anywhere from lighter drafters weighing from 1,550 to
1,650 lbs. going at \(\$ 175 @ 225\). Very little
demand exists for drivers or feeders. CROP AND MARKET NOTES. Genesee Co., July 26 .-Tco much rain
has falle: in the past week or so. Hay has falle: in the past week or so. Hay
fields have been flooded before the crop
was secured. In many instances hay
cocks were surrounded by water and
considerable of the product has been
damaged. New hay sells on the market at from \(\$ 8 @ 12\). Good yields are the rule,
although some meacows were thin.
Wheat harvest now in operation, with
probably an average yield. Some cases
\(\square\) going forward in several townships and
all are to have a share in the improve-
ment already decided upon under state supervision. Prices on farm products
are goad as a rule, and at the end of the
season, no doubt, it will be found that
yields have been usually bountiful. Sanilac Co., July 25 .-Haying is pro-
gressing, about 80 per cent done at this
date. A light shower came on the night
if July
which soaked things and put the oats
wown badly. This was the first good rain
we have had in this locality since beans
were planted. Beans are about three
\(\square\) their sheep early this season. Markets
quiet. Eggs, 18c.
Northern Isabella and Southern Clare
Co.'s, July 24. Too wet for haying but most of the hay was secured. Wheat is
nearly ripe but hardly worth cutting.
Beans are doing fine. where the ground, is
not too wet
not too wet. oats beginning to turn.
Potatoes doing fine. Beets,quite weedy,
owing to the frequent showers. All kinds
of cattle looking well. Branch Co., July 23 .-Hay medium, and curing crop. Corn very uneven owing
to cutworms, poor seed, and late plant-
ing. Oats a large acreage and ing. Oats a large acreage and promise
a bountiful crop. Wheat badly winter-
killed and many fields sown to other killed and many fields sown to other
crops. Some other fields which were
seeded last fall have been cut for hay,
many remaining pieces very poor. New
seeding generally good. Large acreage
of potatoes and very promising. Fruit
crop very light and but very few apples
in orchards. Large acreage of beans, be large. Cucumbers looking promises to
ture. short and cows shrinking on milk.
Ottawa Cas.
very "catchy", time for haying on ac-
count of frequent heavy rains. A large
ameunt of hay has been damaged and
there is still considerable yet to cut, and
it is getting so ripe the qualiy will be
very poor. Since wheat was cut there
has been so much rain, and the weather warm
badly
have
them
vate
fiel
\(\square\)

crop to harvest and can, and the
wet weather is having a bad effect on
vis crop as well as all other crops.
\(\qquad\) Butter- Elgin.
\(\qquad\) mand. Michigan offerings are of small
volunie. The ruling price for southern THE LIVE STOCK MARKETS.
\(\qquad\) hams; \(15 \mathrm{c} ;\) briskets, \(12 @ 121 / 2 \mathrm{c}\); shoulders, \(\quad\) East Buffalo, New York).
\(111 / 2 \mathrm{c}\), picnic hams, \(11 @ 111 / 2 \mathrm{c} ;\) bacon, 14 Cattle-Receipts. 170 ears; all grades on
(@16c; pure lard in tierces, \(111 / 4 \mathrm{c}\); kettie cattle weighing 1,200 sold about 10 Dairy and Poultry products.
\(\qquad\) ple, while the output is about normal for
July. Quotations are: Extra creamery
\(\qquad\) 950 to \(1,000, \$ 6.50 @ 665\); butcher steers,
steers, \(\$ 575\) b. 96.25 best fat cows, \(\$ 550 @\) daily offerings, natives being numerous, while Oregon, Washington and Idaho
ranges shipped in a good many lambs.
Prime range lambs sold at the highest prices of the season, but they were su-
perior to any lambs previously offered.
Wednesday's hig run of southern lambs


 Q :

THIS IS THE LAST EDITION. In the first edition the Detroit Live
stock markets are reports of last week;
all other, markets are right up to date.
The Thursday's Detroit Live Stock markets are given in the last edition. The first tion Friday morning. The first edition is
mailed to those who care more to get the paper early than they do for Thursday's may have any edition desired. SubscribDETROIT LIVE STOCK MARKETS. \(\begin{array}{ll} & \text { Cattle. August 1, } 1912 . \\ \text { Receipts, 1,978. Market steady at Wed- } \\ \text { nesday's prices; } & 10 @ 15 \mathrm{c} \text { lower than last } \\ \text { week. }\end{array}\) We quote: Extra dry-fed steers, \(\$ 7.50\)
and heifers. 1,000 to 1,200 ,
 cows, \(\$ 4.50 ;\) common cows, \(\$ 3.25 @ 3.75\);
canners; \(\$ 2 @ 3.25 ;\) choice heavy
4.50@5; fair to fair to good bolognas, bulls,
4@4.25; stock bulls, \(\$ 3.50 @ 4\); choice f ededckers,
500
\(3.25 @\)
 Ree Com. Co. sold Sullivan P. Co. 1
bull weighing 1,480 at \(\$ 5,5\) cows av 920 no0 at \(\$ 4,2\) steers av 1,355 at \(\$ 7.75,2\) do
av 1,490 at \(\$ 7.75,5\) cows av 972 at \(\$ 4.25\),
do 813 at \(\$ 3.25,19\) butchers av 707
ht \(\$ 5.50,30\) do av 683 at \(\$ 5.25\); to Sullivan P. Co. 5 cows av 836 at \(\$ 4.50\), 1 do weigh-
ing 760 at \(\$ 3,2\) do av 1,060 at \(\$ 4\). 4 sters
av 807 at \(\$ 6\), do whighing 570 at \(\$ 4\) to
Regan 1t butchers av 510 at \(\$ 4\); to Goose an 671 at \(\$ 5.25,6\), cows av 925 at \(\$ 4,{ }^{1}\)
do weighing 1,000 at \(\$ 6,3\) do av 866 at
3 ; to Sullivan P. Co. 2 do av 840 at
 Bishop, B. \& H. Sold Sullivan P. Co. 3
steers av 983 at \(\$ 6.10,4\) cows av 1,137 at
\(\$ 4.75,2\) bulls av 1,160 at \(\$ 4.50,2\) cows av 840 at \(\$ 3,3\) do av 893 at \(\$ 4,4\) do av 900
at \(\$ 3.10,3\) bulls av 870 at \(\$ 4\) to Bresna-
han 6 cows av 943 at \(\$ 3.25,11\) stockers av
540 at \(\$ 4,3\) cows av 1,116 at \(\$ 3.75,1\) can2.75, 1 cow weighing \(\$ 0.060\) at \(\$ 0.25,66\) at do
av 965 at \(\$ 4.25\); to Kamman B. Co. 6

 antehers av 570 at \(\$ 4 ;\) to Hammond, S. \&
Co. I bull weighing 1,120 at \(\$ 4.50\), 5 do
av 966 at \(\$ 4.50\); to Applebaum 7 butchers
 \(\$ 5.85,11\) do av 764 at \(\$ 6\); to Austin 2
 av 782 at \(\$ 5.75,3\) do av 630 at \(\$ 5 ;\) to Ratt-
kowsky 2 cows av 1,125 at \(\$ \$ .50,1\) do
veighing 820 at \(\$ 3.50,2\) do av 1,020 at Haley \& M. sold Mich. B. Co. 1 bull
Heighing 910 at \(\$ 4.25 ;\) to Breitenbeck 1
cow weighing 950 at \(\$ 4.50\), 1 do weighing , \(\mathbf{v} 850\) at \(\$ 4,4\) do av 917 at \(\$ 4,7\) butchers
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\) Lowenstein sold same 4 cows av 930
\$3.25, 9 do av 1,033 at \(\$ 4.50\). s . \& Co. bulls av 1,160 at \(\$ 4.55\).
Same sold Newton B. Co. \(\$ 4\) en \({ }^{3}\) cows av
83 atchers av 783 at \(\$ 4.50\). Allington sold Rattkowsky 6 cows av Receipts, 912 Veal Calves. nesday's and last
\(\$ 9 @ 10 ;\) others, \(\$ 4 @ 8\).

Bishop, B. \& HI. sold Sullivan Pa Po Co
av 150 at \(\$ 9,5\) av 165 at \(\$ 9.50,6\) av 165
in, \(\$ 8,1\) weighing 100 at \(\$ 7.50,1\) weighing


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\section*{PRACTICAL SCIENCE.}

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pany, agent, person or persons who shall
sell, offer or expose for sale, without
first complying with the provisions of
this act, any commercial feeding stuff, this act, any commercial feeding stuff,
or shall attach or cause to be attached

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\section*{POULTRY \({ }^{\text {m BEES }}\)}

\section*{CULLING THE FLOCK}

Before moulting begins the flock should be culled and all fowls not wanted for wintering or for sale later on should be
sold. Under this head come old hens and roosters which are often kept in the flock long after they have ceased to be of any value. There is no use in rethe space they occupy in the poultry house might better be given to the others. Prices are better at present than hey will be later and now is the time o turn unprofitable fowls into cash. It has been proven that males are an the practice of keeping three or four over winter, eating their heads off, might well be given up. After the hatching period they should be disposed
In preparing for market, fowls fatten far more readily and with less food if not permitted to run at large. A small enclosure, made of wire netting surrounding any kind of open shed provided purpose unless the weather is very cold should be always in reach. Corn is the best whole grain to feed to fattening
fowls. A thick mush of corn meal is said to be better still, particularly made with sweet milk.
A laying flock may be reduced in numbers by judicious culling in such a way stimulates laying in those remaining. when the flock has been over-crowded. A mixed flock of 50 hens might be made the old ones, even should this leave not more than half the original number. Then give the same feed to those kept over. It is poor policy to keep old hens through the moult and the following winter when the chances are that they wir keep. If it is desirable to keep a larger foek, bett an equal number of pullets. Pound for pound, at market prices, this would be a profităble way to manage and give bet\(\begin{array}{ll}\text { ter fetürns in egs money. } & \text { E. E. R. }\end{array}\) SUCCESSFUL POULTRY FARMING.

The possibilities of successful poultry farming continue to have a great amount of interest for many people. But intending poultry farmers must disabuse themselves of the common and erroneous idea numbers is a
cial knowledge
Before commencing, it is essential to
realize that there is a very great deal to be learned, a lot of hard work to be done and ceaseless attention to be paid to
small details at all times of the year and in all weathers. Poultry farming is not a pursuit to be undertaken by those de ficient in business capacity, energy, and
intelligence, and who have, perhaps, already failed in some other walk of life
But for anyone who has some and who is active and intelligent, and
\(\qquad\) But since then great attention has been paid to the crossing and making of new
breeds. Among these there are many prolific layers, as well as excellent table
rendered hy the perfection attained by incubator makers, and the moderate price
at which machines can be purchased Movable houses, too, are made so cheap-
ly, and in such great variety, that pouladvantages not possessed 20 years ago. numerous successful poultry farms, both large and small, but these are carried on by business people on business prinelures, attributed in a great measure the ignorance of prapiting in the purchase of needlessly expensive houses and the wrong class of stock. The fowls have been improperly fed and treated, and no produce of the farm to the best ad vantage.
An intending beginner should not start at all unless he has sufficient capital to allow for living expenses for two years
the outgoings are probably in excess of the returns. The stock should consist mongrels. There are few mongrels that lay as well as pure-breds.
When keeping pure-bred fowls, in ad dition to the sale of eggs and chickens on the market there is the advantage of obearly in the year, and for some of the young stock that are fairly typical specimens and are salable for stock purpose Most successful poultry farmers do no
make their profit from eggs and chickens marketed, but from breeding stock.
Canada. \(\qquad\) R. Gilbert

GETTING GROWTH IN TURKEYS
Young turkeys are very tender up the age of seven weeks. While it is troon as turkeys begin to acquire the "red head" they are comparatively safe, it is not good policy to neglect them without care during the rest own cours on. Because they can find a living for themselves the owner should not consider fields afford them. Growing turkeys should be given a liberal feed of grain gle day without grain feed of some kind. The evening feed of grain keeps them and it gets them more rapidly after they become familia with their owner and are not
No one should undertake to
keys unless he has ample range for them as they will not flourish in confinement ideal feed for growing turkeys, and if dows, pastures, and grain fields, since they are great foragers, they will get the insects that furnish the meat food ment. The owner's care and the cos of giving growing turkeys one feed o
grain a day will be returned many fold by the turkeys making more rapid growth, and they will be ready for mark-
et much sooner. DOES THE BEE MARTIN, OR KING BIRD, DESTROY BEES?
A Barry county reader wants to know Whether the common bee martin, or
kingbird, is really destructive of bees There is difference of opinion as to this really catches bees but as to the loss sustained by the apiarist. That this bird,

fis chooses the larger and slow
tions almost exclusively to drones. Some
have sought to prove that the bird is no
destructive of bees by examining the crops of birds, reporting failure to find the other hand, some observers claim
discarding the remainder.
\(\qquad\)
\(\qquad\)
\(\square\)numerous stomachs, as well as by care
makes an occasional mistake and snap
stomach examinations
281 stomachs), made under our owncent
ter,
includ
fies, bees, wasps, two-winged flies andurely d
From.hear trom general bee-keeper has hitle focatchers are present in such numbers as to endanger the queens when making their flights. To the man who is making a specialty of rearing queens, however the presence of this bird may be regard

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THE \\ OHIO State Fair! COLUMBUS
}

\author{
August 26, 27, 28, 29, 30, 31.
}

\author{
Live Stook Entries close August 10, 1912
}

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plow under, and there is an objection to should not be surprised to see them die plowing. A good many of the trees are The scale can kill them in two years.
pretty thoroughly loaded with fruit, and These are the most important amon pretty thoroughly loaded with fruit, and These are the most important among
as they are naturally low tree, now they the trees and shrubs outside the orchard are nearly resting on the ground. While fruits which are attacked by this scale, plowing seems at this time to be im- but the list is far from complete. How-
practical I hardly know what I can do to ever, these should receive attention as practical I hardly know what I can do to ever, these should receive attention as
kill out these sand burrs other than wait well as apples and plums. until next year and then put these or- Oakland Co. Frank D. Wells.
chards on the necessary list. is somewhat misleading, for the pest of
which I shall speak is not new, but only new in respect to its attack upon the
apple trees in this part of the state. At the opening of the season of 1911,
just after the leaves had come out, the apple trees were seen to be covered with minute lice. They occasioned consider appeared, and so far as the writer know ticeable in all the orchards as far as I well.
There are many species of the aphides
or plant lice, as they are generally called, and there are some very interesting facts
\(\qquad\)

\[
\begin{aligned}
& \text { plants that do not appear to be doing } \\
& \text { as well as they ought, it is altogether } \\
& \text { likely that a grub is working at their }
\end{aligned}
\]
\[
\begin{aligned}
& \text { likely that a grub is working at their } \\
& \text { roots If taken in time, a plant may be }
\end{aligned}
\] The eggs are deposited upon the twigs
in the fall, after which the cold weather
\[
\begin{aligned}
& \text { saved by removing the enemy. Work em- } \\
& \text { ployed in destroying these pests is time }
\end{aligned}
\] kills off the lice. These eggs hatch in
the following spring, producing a genera
\[
\begin{aligned}
& \text { ployed in destroying these pests is time } \\
& \text { well spent, for, if left unmolested a sin- } \\
& \text { gle grub will often destroy several }
\end{aligned}
\] the following spring, producing a genera-
tion of females which quickly develop,
\[
\begin{aligned}
& \text { well spent, for, if left unmolested a sin- } \\
& \text { gle grub will often destroy several } \\
& \text { plants, making a clean sweep as he }
\end{aligned}
\]
\[
\begin{aligned}
& \text { plants, making a clean sweep as he } \\
& \text { works from plant to plant. }
\end{aligned}
\] and give birth
\[
\begin{aligned}
& \text { works from plant to plant. } \\
& \text { The presence of these grubs may be } \\
& \text { more easily detected during the heat }
\end{aligned}
\]
\(\qquad\)
\[
\begin{aligned}
& \text { more easily detected during the heat of } \\
& \text { the day, when the foliage of the plants } \\
& \text { being worked upon will show wilt. Then, }
\end{aligned}
\] males once more lay their eggs upon the

THE WHITE GRUB IN THE STRAW
BERRY BED.
A correspondent writes me that th A correspondent writes me that the
grubs are working great havoc in his
new strawberry bed and wants to know
\[
\begin{aligned}
& \text { being worked upon will show wilt. Then, } \\
& \text { too, this is the feeding hour of these } \\
& \text { larvae, hence they will usually be found }
\end{aligned}
\]

Our young orchards are closer at hand,
and if a man and team are out of a job for a while, cultivating can be done. The
spring-tooth harrow is a fine cultivator and easy to use, so these orchards have In cultivating, there is one thing we bear in mind and that is to get our orto do great injury to the trees by having I mentioned sometime ago, in an arti-
cle, that I believed in removing all dead sible after they were known to be such. it but on the morning of the 13th we had farming operations for several days so I got a team into the orchards immediately after the rain and commenced puling
trees. Of course, it was quite muddy but the trees were up-rooted the more
easily for it. I made it a complete job and removed all unhealthy looking trees be dry enough to harrow and unless we
get some more beating rains in the next two weeks this harrowing will be the
last for this season. I will try to have
the weeds pretty thoroughly killed out sowing a catch crop. R. G. Thomas.
SCALE-INFESTED, BUT NOT FRUIT TREES.
It is not the fruit trees alone that are
subject to the San Jose scale. There are
\(\qquad\)
\(\qquad\)
is liable to become a rare tree unless for not many will care to plant it if it
must be sprayed. The scale finds it a
\(\qquad\)
\(\qquad\) subject to attack. If it is near fruit
trees it may become a bad breeding nest before the evil is suspected. This is not
saying that the scale chooses a mountain
ash in preference to other trees. Ordia tree by some means of distribution ovof food it has does make a great differ-
ence with its multiplication. If susrenance is good and is in plenty the scale
thrives and increases, otherwise it tends The Japan quince is another plant be-
loved of the scale, in which it shares about equal honors with the mountain spray or dig up this pretty shrub, other-
wise the scale will be present till the
\(\qquad\)
\(\qquad\)
\(\qquad\)
equently the wild thorn is allow near orchards, affording a distributing
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
Osage orange hedges are not as com- mon as they once were, but there are
still some of them left, together with stray shrubs that have escaped from cul-
tivation. If the scale were to do no other damage than destroying the osage orange it might remain in peace, but it does not. The best way to dispose of osage is to dig it out, thus putting the
scale out of the job.
\[
\begin{aligned}
& \text { near the surface, that is, near the base } \\
& \text { of the plant. At other times one has to } \\
& \text { dig down several inches before the grub } \\
& \text { is found. } \\
& \text { These larvae are doing considerable }
\end{aligned}
\]
\[
\begin{aligned}
& \text { These larvae are doing considerabl } \\
& \text { damage in our new spring-set bed. Thi } \\
& \text { was to be expected for this piece }
\end{aligned}
\]
\[
\begin{aligned}
& \text { ceding seasons. We knowingly took ex } \\
& \text { treme chances because of the fact the } \\
& \text { this particular piece of ground is es } \\
& \text { necially adanted to the growing of straw }
\end{aligned}
\]
\(\qquad\)
\(\qquad\)
\[
\begin{aligned}
& \text { in by directing runners across from the } \\
& \text { row opposite. This is another advantage } \\
& \text { possessed by the double hedge-row plan }
\end{aligned}
\]
\[
\begin{aligned}
& \text { dealing with this problem, preven- } \\
& \text { culare }
\end{aligned}
\]
\[
\begin{aligned}
& \text { In dealing with this problem, preven- } \\
& \text { tion is better than cure and a grub in } \\
& \text { fested soil had better not be set to }
\end{aligned}
\]strawberry plants. Short rotations will
aid in solving the problem, as the beet-Emmett Co. M. N. Edgerton.
The hill system is on the decline as a
land is marked both ways, as for corn
greater number of plants than for the
other systems. After the runners star
it is difficult to keep the plants confine
to a sufficiently limited space, requirin
The matted-row system is less expen-
sive. 1t is started by marking the field
vated both ways and as the runners d
velop they are allowed to form a matt
wide. Cultivation is then done in only
one direction. The saving comes in thThe hedge row is formed by
plants set in a straight line

grow side by side as in the matted row
There are two kinds of hedge rows-
hedge row consists of a single row o
ble hedge row has two rows set 24 inches
tween rows is 24 inches
ing spaces are 32 inches.
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\section*{THE DAIRY}

\section*{CONDUCTED BY COLON C. LILLIE.} THE PRESENT STATUS OF OLEO. oure is really too bad for the cause of pure food and honesty that the manusatisfied with the present that prodnct, known as the Grout bil Nothing can be farer to their manulac ture oleomargarine and only have to pay one-quarter ef a cent a pound the government will keep track of the manufacturer, bu if they persist in coloring it yellow in imitation of butter so that it is lor butter and deceive the consumer then they have to pay on this colored oleomargarine 10 cents a pound great ery about the 10 have made have interested many laboring men's or ganizations throughout the country and a great many of the city consumers be cause they hold up to them that oleo while the farmer's butter is not. But a a matter of fact, it is only the colored oleomargarine that is taxed 10 cents a pound wilile oleomargarine in its natura a pound, and siatisties shicw that very little of the colored oleomargarine is sold. Most of it that is manufacturen its natural color and they only have to pay one quently the tax upon oleomargarine does not make a burden to the consumer. ertheles ufacturers have got many consumers to which is sold the manufacturer has to pay 10 cento a pound tax. change this law and remove the 10 cen tax. They have brought forward the ways, as it requires that the origina packages of oleo must be small and the revenue stamp must be placed upon each have the right to sion oleomargarine no right to color oleomargarine unles they color it some other color than but ared in imitation of butter it is colored for the purpose of selling for butter and affected in this-the consumer is als
hit. If the consumer pays for butter oleomargarine he ought to get oleomar-
garine, and get it at a proper price per
pound. It is a pure-food proposition in
this respect, purely and simply. There is a law which prevents people from seilhough they color it and flavor it in imilaw to sell it as maple syrup, and that
is right. Maple syrup is a special product, and it cost more money to produce
\(\square\)
facturer to take common corn syrup or
ghucose and cotor it and flavor it so that it imitates maple syrup and sell it as
maple svrup. It is a fraud on the con-
sumer, and it is an injury to the pro-


THE MICHIGAN PARMER. there is not enough butter being pro- top of the \(2 \times 8\) 's and then make a cap to
duced at the present time to supply the go over them by using two other \(2 \times 4\) 's duced at the present time to supply the go over them by using two other ex4/s
demand if oleomargarine or the substi- and nailing boards across so that it will tute for butter was taken off the market. just fit down over the pieces fastened to
Peop'e would not have enough to spread the \(2 \times 8\) 's. You can have this cap in secupon their bread. But when this manu- tions so that it can be easily taken off
facturer of oleomargarine attempts to When you fill the silo remove the caps facturer of oleomargarine attempts to when you fill the silo remove the caps. their product looks like butter and sells mer window or anything of that sort.
it for butter, then it is a fraud. It is a Oiher kinds of silo would serve your purcheaper product than butter, it is not as
These is no use in denying it and there
is no use arguing about it, and the only
reason that the manufacturer insists that
\[
\begin{aligned}
& \text { reason that the manufacturer insists that } \\
& \text { it be colered yellow is so that it can be DAIRYING A LARGER BUSINESS } \\
& \text { THAN FARMING. }
\end{aligned}
\]
\[
\begin{aligned}
& \text { Sold for butter and get a better price, } \\
& \text { or butter price for it, and when they ad }
\end{aligned}
\]



buter, but the manufacturer of oleo-
margarine can take creamery butter and
mix it with animal fat, in some brands
as high as 40 per cent being creamery Fifteen or twenty years ago I thought
butter, and then sell it for oleomargarine. there was but one side to the question
look like, taste like, and smell like but-
and get a butter price for it. Now the Since then dairy markets have change
ought to prevail. There ought to be the
The government cannot prevent the price for storage purposes. The com-
andacture of colored oleomargarine mission men did not think they could
                            use its taxing power. Hence
this product so that it will practically
prohibit its manufacture.
I intend building in the barn a silo 10
square and digging 3 ft. beneath the
of stowe and cement, and the main part
boarded with two fold of inch boards
with rubber roefing between them.
My advice would be first, don't buila
dred times that you had buitt it outside,
warp vour barn out of shape, the pres-
nside.
pasture there isn't any question today
but what it is more profitable to have
er hand, if a man is so situated that he
have it round than you ean to build it has an abundance of cheap pasture
waste, cutover, or rough tand that can

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When dairy production is larg est waste is greatest and qual iy poorest without a separator The De Laval Separator Co.
 for the grass that grows on the hillsidos
and in the cut-over lands that cannot and in the cut-over lands that cannot pasturing, and the indications are that
the summer price of dairy products wil continue to be higher than formerly butter industry, no matter how much the oleomargarine proposition is pushed fo ple who will prefer good butter and wh might be much concerned about this j the only market for dairy products was
butter and cheese, but the growing debutter and cheese, but the growing de inue just as long as our population mount of ice cream used which is no ent market of is chance for alling off of demand for summer dair o falling off in prices, the prospects
Figured in any way, dairying in the future are more flatter ing than they have heen in the past. To but dairy products are higher in propor milk and butter-fat cheaper than ever
 business basis. We can easily eliminate method in feeding and caring for the
animals there is no question but what a
\(\qquad\)
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\(\qquad\)
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chai chain drive. No belts to lose power of
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gine can be removed for other work. Can gine can be removed for other work. Can
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nish engine
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