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Wbole Nuber
Not
DETROIT, MICH., SATURDAY, JUNE 14, 1913


Why and How to Thin Fruits.
Thinning is one the orchard opera- stunted in growth. Thinning is the main tions which is often recommended but remedy for such eases.
seldom practiced. Many think it one of Increases Percentage of Good Fruit. seldom practiced. Many think it one of Increases Percentage of Good Fruit. the non-essentials, one of the frills of Commercial growers of plums and
orcharding. They consider it a good peaches who have tried thinning consider thing for the man who wants to putter it very important in getting good fruit. around and get rid of some time and Peach growers especially find it very money he has to spare. Others think it profitable to thin. The difference in size one of the most important operations of in the peach makes great difference in
the orchard and one which will do much the market value. Fruit from unthinned the orchard and one which will do much the market value. Fruit from unthinned to bring out the good qualities of the trees when heavily loaded is small and fruit. They believe that for the time runty and is often a drug on the market
and money invested it brings as much when large sized fruit sells readily. Aside profit as most anything that' can be done from increasing the size of the plums


Well-cared for Six-year-old Keiffer Pear Orchard. (See Article on Next Page).
in the orchard, excepting spraying. The thinning plays an important part in the latter are generally those who have in- control of the fungus troubles of the plum.
vestigated the matter most thoroughly. Thinning so that no two fruits touch vestigated the matter most thoroughly. Thinning so that no two fruits touch The theory of thinning sounds good and the practical. The prime purpose of fruit There is no doubt in the minds of those reproduce their kind. Their main object thinning of peaches and practical value of is to produce seed, not fruit. The fleshy profitable beyond a doubt. But as to part of the fruit, carrying the seed, is the value of thinning apples there is som dentally, a little flavor tasting good to over it and others who have tried it find man and animals is given to the fleshy that it does not pay. It depends upon part so that they will eat it and thus aid circumstances whether it pays or not, or unpleasant taste is usually given the determining factor. If apples are sold seed so that it will not be chewed but through the usual channels of trade, the The production of seed is a drain on any distinctive pack or mark which be-
the vitality of the tree. The seed con- comes a mark of reputation, it is very
tains concentrated essential plant ele- doubtful if it will pay tains concentrated essential plant ele- doubtful if it will pay to thin. There
ments. The fleshy part contains little not enough di 'inction made between th besides water.
The tree generally tries to brades of fruit in the way of seed, and therefore the fruit is gener- ning is one of the operations which beally smaller than man would like it. Man long to the fancy fruit business, and constantly trying to do away with it. The which belong to the same line of work fleshy part is what he is after. The tree The apple grower who thins should work cares little for the fleshy part but puts up a reputation for his fruit in the parcomplish his aim man must thin out the have his grades well established and fruit so that the remaining fruits will get stick to them. Then thinning will be of part of its task of producing seed it sidered essential and most profitable out puts its energies into developing larger west where they are careful about their fleshy parts to the remaining fruits. grades and pack. are careful about their Nature uses no judgment in the pro- The cost of Thinning.
duction of fruit. A tree will bring to ma- The cost seems to be the greatest bugturity so large a crop of fruit in one a-boo to the intending thinner. Thinning year that it will have to rest up a year is epenxsive, the cost of running all the before it bears again. By limiting the way from 20 to 80 cents a tree. Some
production in the productive years man figure that it takes just about as long to can often bring the tree to annual bear- thin a tree as it does to pick it. The
ing. Some varieties will overbear each cost of thinning is somewhat year Some varieties will overbear each cost of thinning is somewhat offset by hey will die prematurely vitality that the greatering time. lengthen the lives of such varieties. Some. Tests show us that for every cent put arieties will bear crops too young, and into thinning we generally get three back
cking and marketing. So with the av- fruits erage cost of 50 cents a tree we would other. The largest and most perfect fruit ning. This would amount to $\$ 50$ per acre growths had better be taken off so as to profit, which is nothing to be sneezed at. lighten the load of the tree. These ter Thinned peach and plum often have as minal fruits are generally bruised so as many bushels of fruit as they would have to make a second grade fruit anyway had they not been thinned, the size of Often one side or part of a tree is heav the fruit making up for the lack in num- ily loaded while the rest of the tree has On apples, however, there is gen- a light crop. Such heavy bearing parts the larger per cent should be thinned as the different limbs inningtter grade of fruit is what makes of the tree are independent of each other eriments have shown, have about 20 per Thinning needs courage. It seem more culls than those thinned. There wastefin to most a crop. The ackable frum on the unthinned trees as axiom, look up, not down," is one which about half as many number ones from attention to the fruit on the ground, it the unthimed as from the thinned. The may weaken your courage. In the wes
others will be of the lower grades. Culls the Japs are considered the best thinand number twos are not producers one Japs are considered the best thin large profits. regardless of what they think the conse Thinning needs judgment. It is hard quences will be. The white men, they about six to eight inches is the proper his conscience begins to hurt him distance to thin apples. Peaches should The proper time for thinning is just inches, five or six inches would be better, for apples and before the pit hardens in and for plums about four inches. If the case of the stone fruits
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## Apple Scab and It's Control.

miliar to nearly everyone. It is probably ald more numerous around the blossom the most serious fungus disease of the distorted while it is young by severe at apple. It attacks both the foliage and the tacks of the fungus. Where the scab ruit, appearing first in the spring on the spots are numerous they often run tooung leaves, where it produces velvety gether and then cause deep cracks in the utline. Later these spots become circular apple. This allows the fruit to dry out. outline. Later these spots become darker A good instance of this is shown in one in shape. The leaves are frequently more of the apples in the photograph.
The Nature of Apple Scab. or less wrinkled, and in bad cases fall Apple scab is caused by a fungus known prematurely. This exposes the tree to scientifically as Venturia pomi. The dissun scald and often prevents the fruit ease is spread by means of minute spores The more characteristic effect of the and are blown by the wind from tree to


Apples Affected with Scab. Proper Spraying is Best Means of Control.
gus also attacks the stems of the fun- as a seed would in the ground and start fruit at blossoming time, especially if the fungus grows into the tissues of the leaf causes the young apples to shrivel This or fruits and derives its nourishment drop, and often reduces the crop very of the disease is very much influencead materially. On the fruit the spots pro- weather conditions. Moisture color, ape circular and greenish black in surface of the leaf or fruit is essential to lase on the foliage Later the outer account the disease is spread mostly in working the skin peels off, caused by the the spring and early summer or in the spots on mature fungus under it. These fall. There are usually two bad infe $r$ blackish color with a narrow margin June shortly after the young apples have of light gray color. They present a set, and another in August or September.
ough russeted appearance and are usu- The disease spreads very little during the


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hot dry weather of summer. It is not
ples in storage. If the fruit is affected with the spores before going into storage, the fungus will continue to grow. The
spots render the apples very unsightly The disease thrives best during moist prevails during the early part of the sumject to attack when crowded so as to shine. Therefore the first preventative is age is possible, space the trees at a prop-
er distance apart, and then thin out by proper pruning. Another method of at-
tack is by destroying the dead leaves. It has been found that the disease winters over on the dried fallen leaves. These
are then the starting place for the growth on the next season. Therefore if they the spread of the disease the following either by raking up the leaves and burnThe most important operation in its control, however, is spraying. This must not be neglected if the disease would be
kept from doing harm. For this purpose either Bordeaux mixture or lime sulphur solution can be used, and at least three
applications should be made. The first hould be put on just after the buds have swollen and begin to show color. How-
ever, if the trees have been thoroughly sprayed with lime and sulphur. for scale
before the buds open this first application before the buds open this first application
for scab can be omitted. Another should be made with dilute lime-sulphur or self-
boiled lime-sulphur shortly after the petals have fallen, and a third application the disease is very bad or the weather
favorable for its made. This can be judged by the grow-
r. If these methods are followed out the Ingham

## THE KEIFFER PEAR.

The Keiffer pear is the standby of the
masses and one prominent grower has said that this variety can be raised at a
much cheaper than that and on the av-
crop. It is a large golden yellow pear
that becomes tinted with red on the sunny side, and though the quality is only ket variety. The Keiffer must be prop-
erly ripened in order to bring out its good qualities as an eating pear. They should
be left on the trees until reaching full maturity and picked just before they be-

## that the leaves begin to fall. After pick-

storage room where an even temperature
is maintained. Stored in the proper man
ner develops their quality and makes the Keiffer a far more desirable variety. commercial pears and its resistance to
blight is well known. It is not wise to

## pears in the same block but for cross

 pollination, the Garber is recommendedas a very efficient variety. In a large orchard about eight or 10 per cent of the The big money in Keiffer pear raising is due to its value as a baking and canning pear. The canning factories demand
a pear of good size and shipping qualities a pear of good size and shipping qualities ties of this variety. The large size and the fruit stands where attractive specimens having good keeping qualities are
The Keiffer pear tree is productive and the fruit will hang on well in a high
wind. It makes a good-looking, ornamental tree for the front yard and serves he dual purpose of furnishing landscape
beauty and good fruit for the table. The merits of this variety have not been ap-
preciated because so many farmers have rushed them to market when immature and they have been purchased by the un-
informed public and used for immediate consumption. When carefully handled and properly ripened, the average pear mar-
ket will find little fault with the Keiffer. The combination of juiciness with the subacid flavor and the aroma of the Bart-
let make it a variety that will receive more consideration from a select market every year, as its good points and limi-
tations are understood. $\quad$ R. G. Kirby.

FARM NOTES
Seeding Alfalfa in Wheat.
I have 17 acres of land in one field near
my barn which I would like to get seeded my barn
to alfalfa.
intend to
will manur

$\qquad$ Any advice you or any of the readers
give me will be greatly appreciated.
Saginaw Co. Where lime is to be applied as a prepgested by this inquiry, it will be best to wheat, and work the lime into the soil wheat crop. The best method of applying lime is with a lime or fertilizer distributor, although if hydrated lime or ground
lime is used, a sufficient amount can be own with a fertilizer drill to give good The best authorities advise sowing from two to four or more tons of ground lime-
stone per acre. It is the writer's experience that a lesser quantity will give equally satisfactory results, although the beneficial effects will doubtless not be as is made. We have just finished sowing a carload of ground limestone at the rate of one and a half tons per acre, and have had very good results where hydrated
lime was used in quantities as small as 400 to 500 pounds per acre. Where applications of ground limestone are made,
it can be distributed with a manure it can be distributed with a manure
spreader or even sown by hand. The method of application will depend altoWhether local conditions. seeded with wheat on land where it has never grown is a point not thoroughly demonstrated. We have known of some
very good stands of alfalfa secured in very good stands of alfalfa secured in
this way, but unless one is certain that the bacteria peculiar to the plant, is
present in the soil, or unless the soil is liberally inoculated with this bacteria this method of seeding might not be as
successful as it doubtless will become when our soils become thoroughly inoculated with this bacteria, as they now are
with that peculiar to red clover. The libal manuring of the land and the applisure the success of any method of seeding alfalfa.

Crops for Green Manure.
What crop should I sow in June for green manure crop to be plowed down for
corn next spring? Soil is sandy loam
with clay sub-soil. I had thought of Hunwith clay sub-soil. I had thought of Hun-
garian millet or buckwheat, or possibly rape. Would like to sow what I can ge
most plant food from.
Cass Co. In the writer's opinion legumes, such profitable to use as a green manure crop buckwheat or rye because it adds some plant food to the soil, provided the soil peculiar to the legume sown. One these crops, if sown in rows and cultivat these crops, if sown in rows and cultivat-
ed, a large growth of vegetable matter would be secured which would be in the
best possible condition to plow down the or the corn, or both, should be fertilized with a phosphoric acid and potash fer-
tilizer, provided the ground is in need added fertility in order to get maximum results with the corn. Rape or rye or
buckwheat, or in fact, any cover crop will add vegetable matter to the soil and
thus tend toward inereasing its humus content, but will add nothing in the way actual plant food which the soil did already contain, simply leaving it in available form for the succeeding crop,
while a leguminous crop will accomplish this same result and at the same time add a needed store of nitrogen in the soil
for the use of succeeding crops.

## LILLIE FARMSTEAD NOTES.

The Wheat Crop.
We have a good stand of wheat in this
country but it is heading very short. The
country but it is heading very short. The
spring has been cool and dry and wheat
has not made any great growth. The
question is, what effeet will this have
upon the wheat? People who have been this is going to be a splendid wheat that this is going to be a splendid wheat year,
that when wheat heads short, when it doesn't go all to straw it will go to head, plump wheat
$\qquad$ At this writing, June 3, we have our
field of lima beans. A field on which we to be planted, and the ground is all ready for the rest of the spring crops, with the exception of the potato crop, and that has been plowed and harrowed for some
time. We hardly ever get our ensilage corn in before the middle of June and
sometimes not until the last of June. We hardly ever plant our late potatoes until very much farther ahead with our work this year than we have been in the last several years, and it is quite encouraging. harrow the corn ground before the corn Some years it is comes up get onto our heavy land and the weeds get a good start and it is almost impos hoeing. It looks this year as if we cond manage it without any hand if we could Applying Fertilizer to
In planting lima beans and also in planting common field beans this year. we
planted them with a wheat drill, sowing three rows at a time. We used, sommer cial fertilizer, stopping up the feed runs irectly over the hoes that sow the seed as not to have any fertilizer in the susceptible to injury from fertilizer when touches them. They are very much ore tender in this respect than corn or the fertilizer in the drill hoes on either de of the row, and I believe the bes way is to go on and sow the fertilizer he beans, and harrow the ground and mix it thoroughly with the soil, but, of lourse, it we have a drill with the fertilizer ttachment we are putting on the fer lizer at the same time we plant the Probably, taking going over the field once robably, taking everything into considuse fertilizer. Rape Ready for Hog Pasture. markable growth the last few warm a reand we are able to turn the hogs into on field.

THE ALLEGAN COUNTY ALFALFA

The alfalfa campaign in Allegan county turned out better than we dared to hope. county during the week and in 5,925 people attended. Wayland and Allegan ed with an attendance of over 300 each while Plainwell, Burnips Corners, Martin and Hamilton cut between the 200 and were held within the number of meetings relays that kept meetings going in ree places at once-each speaker taking turn at every meeting place. This ut reached the people in every remote

The following speakers addressed these meetings, four of them remaining throughout the week: Prof. P. G. Hol-
den, Chas. W. Farr, W. R. Baughman, nternational Harvester Company. Dr Eben Mumford, of M. A. C., John C.
Ketcham, Master of State Grange, and C. B. Cook, of the Allegan Farm Bureau one and a half hours. The subject was was covered twice. A lively discussion mony to the amount of interest taken by he farmers generally. A large motor
ruck carried a quantity of alfalfa literture for everyone interested and samples going to grow alfalfa this year gives the names and addresses of over 300 farmer county who will plant all the way The alfalfa campaign has done much to arouse people on the farms of Allegan and splendid possibilities of a avor in all sections where it is given an ductive soils, better crops, an more pro-
dundance of the best hay that can an abundance arming communities more alive to the Allegan is in farm life.
$\qquad$
Michigan is fast coming to the front among all the states of the ranks first production of beans and rye, and is the ond in the production rye, and is sec tatoes, and third in the production of pears, grapes and buckwheat.


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## Live Stock.

KEEP NURSING EWES THRIFTY.
With the heavy draft from nursing their lambs and the gradual decline in growth of pasture there is every danger that the ewes will become reduced in flesh and unthrifty. No time of the year is
more vexing to both sheep and flock we vexing to both sheep and flock first year $\$ 2.56$, second year $\$ 5.41$ thind owner than the summer season when year $\$ 6.21$; other costs, $\$ 5.01$; total, $\$ 104.06$. drought and excessive hot weather re- The total cost for all feed is $\$ 56.30$,
tards pasture growth. Meadow lands par- being $\$ 21.68$ for grain, $\$ 19.23$ for hay, tards pasture growth. Meadow lands par- being $\$ 21.68$ for grain, $\$ 19.23$ for hay,
ticularly are very apt to evidence the ef- $\$ 14.18$ for pasture, and $\$ 1.21$ for other ticularly are very apt to evidence the ef- $\$ 14.18$ for pasture, and $\$ 1.21$ for other
feet of hot dry weather and especially if feeds. The total cost of care and shelter having been well pastured during the is $\$ 16.69$. Of the total cost, 54 per cent early part of the season. It is unsafe to is charged to feeds, 16 per cent to care rely altogether during the summer months and shelter, and 30 per cent to other on meadow pasture as very few farmers items, as enumerated above.
seed their land to grasses that have the As more than half the cost of raising forage. Strong milking ewes must have an ad- how important is the influence of variaequate supply of nutritious and palatable tion in prices of feedstuffs upon such feed in order to maintain good physical cos fow of nourishment for their rapid growing lambs. When pasture becomes short and sun-parched and the area upon which the ewes are confined limited, a decrease
in milk flow soon becomes apparent while in milk flow soon becomes apparent while
later the ewes themselves fall off in flesh. It is a serious matter and not easy to remedy to recruit ewes that become low in flesh while nursing their lambs. It has been the general experience of most flock owners that it is much better to safeguard against the development of such them after they have once go correct them after they have once got foothold of pasture land properly fenced so that the flock can be frequently alternated from one field to another, pasture growth can be greatly stimulated. On the average arm, however, where sheep are kept in ply of pasture is invariably limited and other sources of supply must be relied upon. As soon as the grain producing very profitably turned over to the flock and will supply a large amount of excellent pasture. I always like to turn my
sheep into stubble fields as soon as possheep into stubble fields as soon as pos
sible after the crops are removed as th sible after the crops are removed as the
sheep immediately destroy millions of eeds that otherwise would go to seed.
To allow the ewes to become unthrifty
while nursing their lambs invites diseas while nursing their lambs invites disease
and impairs their future breeding useful and impairs their future breeding useful-
ness. A large number of good ewes are ruined every season because of imprope eare during the nursing period. Disease the system is low in vitality and unable to ward off attacks. There are numerous mitted to the lambs from the unless every care is exercised to keep the ewes strong and healthy, the nursing lambs are very likely to become infested. To keep the ewes thrifty and in good flesh condition is largely a matter of afwith a plenty of nutritrain. The amount of grain advisable to feed largely depends upon the kind of pasture the flock is it is not necessary to feed grain as when insufficient to meet the needs of the flock The grain ration can be materially re-
duced by giving attention to the growing of supplemental forage crops that can
either be fed by soiling or pastured. It is by all means more satisfactory and economical to pasture forage crops, bu
the soiling method affords a larger quan Shiawassee Co. Leo C. Reynolds.

COST OF RAISING HORSES.
Reports have been received from abou ten thousand correspondents of the Bu Agriculture upon the cost of raising
colts on farms to the age of three years colts on farms to the age of three years.
The average for the United States is found to be $\$ 104.06$; or, if we deduct the
value of work done by the horse before he value of work done by the horse before he
has passed his.third year, namely $\$ 7.52$, the net eost is $\$ 96.54$; this is 70.9 per cent
of the selling value of such horses, $\$ 136.17$. The cost varies widely by states, from an average of $\$ 69.50$ for New Mexico, $\$ 71.59$ for Wyoming, and $\$ 82.47$ for Texas,
to $\$ 156.60$ for Rhode Island, $\$ 149.98$ for to $\$ 156.60$ for Rhode Island, $\$ 149.98$ for
Connecticut, and $\$ 141.80$ for Massachusetts. Itemized, the cost is made up as fol-
lows: Service fee, $\$ 12.95$; value of time

ALFALFA HOG PASTURE.
Last year we sowed out first alfalfa,
0 acres in four small fields, using differ ent amounts of seed and sowing at difplant and the way best suited for our
farm. We used nitro-culture obtained rom M. A. C. on all but a small strip
for comparison. We obtained excellent results and we have been pasturing one field with hogs. We turned them into
another in which the alfalfa is nearly waist high this morning. In the one is beginning to start from, the crow again but none of it is in blossom and should we clip it, and will it do harm to it be removed? We want to use that
field for pasture again when it gets sufficient growth.
Shiawassee Co
Alfalfa can be cut as soon as the new growth is well started from the crown of the plant. It should be cut before this new growth gets tall enough so that it
is clipped off with the mower. If the new growth is cut off it seems to injure the growth. On the other hand, they tell us that if alfalfa is not cut when the new growth starts it doesn't seem to do well urn the hogs out of for you to do is to the balans out of this pasture and cu the new growth starts up nicely and a he new grownes ap nicely and is hogs back in. Without any question the way to pasture alfalfa is to not have to many hogs for the alfalfa field, and then when it comes time to cut, save what the hogs have not eaten for hay. In this way if you will cultivate the alfalfa with spring tooth harrow every year, either early in the spring or before the alfalfa tarts to amount to anything or directly fter it has been cut for hay, go over thloroughly both ways, you will not injure he alfalfa and you will root out the June rass and other weeds. Then by properly ertilizing it you can keep it down to hog pasture for almost an indefinite period of lip this field of alfalfa and leave the lippings on the ground, but if you have got any growth it is well worth saving got any
for hay.
There is a beef famine on the Pacific coast, causing San Francisco and Los Australian beef, as well as frozen mut-
ton, despite the high duty that has in
vears past been prohibitory years past been prohibitory. The beef
importled from the antipodes has been retailing for around five cents per pound below prices paid for choice domestic
beef, it grading much under American
corn-fed beef and more resembling American grass-fed beef of the western range
country. A drouth extending over a long period on the Paeific coast has made such
an unprecedentedly great shortage of beef
that it became necessary to look to other that it became necessary to look to other
sources for a beef supply, and it has
been brought in from states as been brought in from states as far east
as Colorado. Montana and Texas, while an enterprising Los Angeles packing. firm its own beef trade. The hor supplying railroad
freight rates are very high, and this causes Catifornia dealers high, and this
to Australia for supplies, wook ing comparatively low. The federal au-
thorities in thorities in New York are enforcing the
law prohibiting men engaged in interstate commerce from selling beff or mutton or
veal that lacks an ante-mortem and postmortem examination inspection by the government official inspectors, and this
prevents bringing in any of these prevents bringing in any of these Aus-
tralian frozen meats. The Australian porterhouse steaks retail in San Francisco for 20 cents per pound, or five cents under California production of beef cattle has never amounted to much, and their grade

## Dairy.

CONDUCTED BY COLON C. LILLIE. PLANTING SOY BEANS IN CORN FOR SILAGE.
Seeing an article in the Michigan Farm-
er some time ago on planting soy beans er some time ago on planting soy beans
in corn for ensilage, would like to have
you tell mee how and when to plant the
beans. Would beans. Would it be practical to plant
enough to fill a $12 \times 30-\mathrm{ft}$. silo?
Monroe Co Personally I don't think very much of the idea of mixing soy beans with seed
corn and planting it for silage, because I like to grow the ensilage corn pretty thick.
Corn is a very vigorous grower and when you have a good crop of corn on the land you will get a very small growth of soy
beans. In other words, you can't grow same season and have both ground in the same season and have both of them good
crops. I have tried this and most every with the same results. I think it is much better if you want to grow soy beans to a separate piece of ground. Put them in rows 28 inches apart and plant about bushel of seed to the acre and then cut silage corn and mix them in with the en-
silage corn. Put in three or four loads them through the ensilage cutter and mix them as thoroughly as you can with
the corn silage. The cows relish them and they furnish a cheap source of pro-
tein, and I think the plan a good one tein, and I think the plan a good one cheaper than you can to grow the soy beans as a forage in this way. Corn is
about as cheap a crop as we can grow drates. It is necessary for best results that we feed some grain in connection
with the clover or alfalfa hay and corn silage, and we can have this grain contain a good per cent of protein to balance if we.grow the soy beans and allow them a. little soymind the soy beans and feed the corn silage that we will get better results than we will if we put them int
the silo, as long as we have Indian corn silage as the great silage crop.

BEST SILO CORN FOR MONROE After reading much of your writings,
I would like your advise on the best corn I would like your advise on the best corn
to grow in Monroe county for a silo and
general feed. We expect to feed all the As I have often stated in the Michigan Farmer. I think the best silo corn is the
largest variety of dent corn that will mature sufficiently to make good silage in any given section. There is no best va-
riety. Ensilage corn is nothing more or less than common field corn grown for
the silo. Some people have a specific means dent corn that is grown a good ways south and has the habit of taking
a long time to mature because it has
been grown in a climate where the sea-
$\qquad$
$\qquad$
$\qquad$
acre as you can with a corn that matures


just as important as that which we get
out of the ear. One is just as digestible as the other, and we don't care whether we get these nutrients in the stalk and
leaves or in the ear itself. The purpose is entirely different than it is when w aise corn to husk and simply sell
eed the grain and consider the stalks ittle account. Now when the corn plan properly matures, not dead ripe, but glazed and dented and not yet ready to
cut up because it would shrink some, then cut up because it would shrink some, the tains the largest per cent of digestibl nutrients. Now the largest variety mature will yield for us the will properly ber of tons of digestible nutrients per cre and that is what we want; we don't say, when we take corn farther sout where the season is longer and bring ually will not properly mature. It hasn't he maturing habit for such a short seahome some Cuban corn. This corn down was good vigorous corn. I planted an ea treme height, some of them reaching 1 eet high, and became great large stalk And when killing frosts came it was jus icely tasseled and silked out. You se in Cuba it grew in a climate where it and when it got up into Michigan it ha to hustle up and grow in about 90 or 100 Now that corn was not properly matur and would not make good silage, althoug acre. And so I repeat, that I believe that the best seed for ensilage corn is a good grown about 100 miles south of that grown about 100 miles south of us. That
corn will undoubtedly mature sufficiently to make good silage and will produce th
largest growth of dry matter per acre. HOW TO CURE A KICKING cow. Can you give me a cure for a kickin
ow? She is both ugly and nervous. Kalkaska Co. SUBSCRIBER.
There is one thing There is one thing certain, you can'
cure a kicking cow by beating her wit the milking stool or abusing her in any
way. Cows resent this lind of treatment This will not subdue a cow any mor
than threshing subdues a balky the more you whip them the balkier they get. The only way I know of to cure a
kicking cow is through kindness. Try to get on the right side of the cow. Make And I think after a time the right man with the right knack can get the cow is a cause for kicking. It is usually the risult of pain or injury. Perhaps the ma milks the cow has long fingernails hands. Perhaps he does not know how giving the the teat of the cow without resent this pain by kicking. It is he only way of defense, and consequently i thing to do is to remove the cause. Very as a man has chapped hands. The teats sometimes a teat is injured by scratching sort. If this is the case, when you go
to milk the cow it is going to hurt, and ame her for it. In such cases as this ne, to soften the teat and make the in
$r y$ as light as possible. Sometimes the gets a teat injured so that you can uch cases it may be necessary to tie th A VALUABLE REFERENCE In connection with the veterinary a Vice given in the Michigan Farmer, eve
reader can use to excellent advantage on
of the Michigan Farmer Anatomic Charts. This chart illustrates the hors
cow, sheep, hog and fowl, the perfe
animal, the bones. the muscles, the bloo system and the internal organs, also giv-
ng the name and location of each bone, 3ng the name and location of each bone,
muscle, vein and organ. Dr. Fair, our
veterinarian veterinarian, recommends the use of this y to make your questions better under
stood and also enable you to better un derstand the answers.
This chart is only
or six-page the feature also contain maps of Michigan, will be sent postpaid, for only collectio
Michigan Farmer, Detroit

## DE LAVAL The Best Constructed Cream Separator

LVERY year the superiority of the De Laval over all other offers separator buyers a better machine than the year before.

Note the improved features of the latest De Laval machines as shown in the illustration below, representing the very latest and best in cream separator design and construction


The new De Laval catalog just out explains in detail the advantages of De Laval design and construction and why the De Laval is superior to all other cream separators. It will be mailed free upon request to nearest office.
THE DE LAVAL SEPARATOR CO. NEW YORK CHICAGO SAN FRANCISCO SEATTLE





COCKERELS FOR SALE- - Purio brod fratm mitioe
 S. C. B. Minoreca Cockerols and P. C. Fall Pigs
 Prize Winning Bartod Rokk. R R Redo. Mam





 LILLIE FARMSTEAD POULTRY


 WHITE LEGHORNS - WWychorgitan" Hone
White Wrandotites Snow White Eggs ${ }^{-15} 10$ nis R. C. R. I. RED EGGS, \$1.50 PER 15, POSTPAID. White Wyaritha- Aan Arbor, miehikan.


FOX AND WOLF HOUNDS



## DICKELMAN Extra

 "Cluster" Metal Tile Cheaper Than Wood or Slate

 DICKELMAN EXTRA "CLUSTER" SHINGLES




## Poultry and Bees.

## PREPARE TO CAPONIZE THIS SEA <br> SON'S SURPLUS COCKIERELS.

Everyone desires to realize the greatest mount of profit possible from the sur is the best method of disposing of them Selling them as broilers will, of course, bring in a profit, but unless one has a actory. In order to secure highest price hey must be in prime market condition, and this entails quite a bit of labor unles one is properly prepared for the work.
The best method of disposing of them or the farmer and poultryman alike, is selling them as capons. Cockerels that have been caponized bring a price pe pound that compares favorably with that of broilers. Some markets quote them at @s ach a they welgn from 8 to once be seen that caponizing is profitable. A large capon will bring about as much s a good-sized turkey, and from a small er amount of feed consumed. No special
feed or feeding is necessary in growing capons. In fact, they will eat anything. will not touch. Hence, the small feed A capon is an unsexed male bird. A fight. He is quiet and docile. The comb and wattles of the capon cease to develop. Capons are also easily fattened. One of their characteristics is a fondness for
little chicks. They can be taught to care or a brood of chicks and make the best fall will be right to brood chicks early in the season when broody hens are unathe breeder of a non-sitting variety of incubator and given to the capons to be cared for.
Caponizing can be learned by anyone, and a little experience will enable one to
become quite expert in manipulating the become quite expert in manipulating the
instruments. Procure a good set of in-
struments-they can be purchased very easily done with a full set-follow the directions that accompany them and you your first operation may not be a sucrou are acquiring experience, and that is what is needed. It is a good plan for the eginner to watch an experienced person
perform the operation if this is possible. Lacking this, the next best thing to do is to experiment on a dead cockerel, one that
has been killed for table or market. has been killed for table or market.
The heavy or meat breeds of chicken are better than the light or egg breeds
for making capons. They should weigh from $11 / 2$ to 3 lbs. and be in good healt at time of operating. It is best to per
form the operation early, if possible, be core hot weather sets in. While the wor
can be done successfully in hot weather the results are usually not so good as arlier or later. Do the work in a room day that is bright and clear. For the operating table a barrel or box
may be used, as preferred. It should be of the right height for the operator to wers the purpose nicely and is usually the right height. The fowl should b
laid on its side, a cord tied around th feet and a weight attached to the end,
which is allowed to hang down the side which is allowed to hang down the side
of the barrel. This is to keep the feet of the barrel. This is to keep the
still and hold the fowl in position.
ther string is fastened around the wing Cockerels intended for caponizing
Cockerels intended for caponizing should to the operation. Now, follow the direc
tions that accompany the instruments. After the cut is made and held open by the spreaders, the male organs will be in
ull view. In size and shape they resem ble navy beans, and are of a yellowish color. Some remove the upper one first, but it is better to remove it last. If the blood occurs, the view of the lower organ would be obstructed and its removal made more difficult. Do not sew up the cu When the capon is released the ribs will close up the wound and it usually heal in ten days. organs entirely or "slips" will occur. O

## not be a capon and cannot-be sold for such. It often happens that the organs develop again and the cockerel becomes

for breeding purposes.
the fowls are ready to be fed as soon sould operation is over with. First they They should not be put on fattening intil The object is to keep them growing ew weeks before marketing, place them small yards and feed three or four ill a them in prime market condition Indiana.
O. E. Hachman.

HOW TO MAKE AND USE A SWARM CATCHER.
I will describe how to make a swarm atcher, with which a swarm clustered 30 and easily as when near the ground. It The material, which is worth make one. cents, consists of a large bag made out a sack as binding twine comes in is ex open To hold the mouth of this sack a little larger than telegraph wire, is overlapping some inches wo the ends can be tied together with small wire or stout cord. The mouth of the sack is
then securely sewed around this wire hoop. A crotched stick, the prongs of Which naturally stay as far or a little wire hoop, is used, and with stout cord the end of each prong is tied to the wire the open mouth of the sack will always point upward, no matter at what angle
the pronged stick may be held. The stick below the prongs should be at least two light pole can be attached to it by alfeet. and bindig them hort straps. Different length poles be used, as they can be attached or d Wed in an instant
When a swarm is clustered on a small limb, the cateher can be pushed up ring the limb so that the whole swarm falls right into the sack. If they are he sack can be raised up under them and, by moving it one side, the bees are can be picked right off the body of a ree, for, by letting the mouth of the he bees, will be brushed in. Carry to the hive and invert the bag, or rather turn it inside out, and the bees will drop in front of the hive and run into it, and the hiving is done. Until tried, no one would believe from what apparently inaccessible of these, when rightly made. I have of these, when rightly made. I have
tested quite a few swarm catchers, bus have found none to give such thorough satisfaction as this simple deviee, which New Jersey.
W. F. Herman.

Bee-keepers who do not keep queens more than two years clip the right ing of queen in even years and the left
n the odd years. The age of queen can thus be told.

Don't bother with starters of comb ng frames, but put breeding or extract dation and prevent bees from building the orst nuisance of the apiary building the

Don't use second-hand packages for only bear down the price of honey on the market, but you indirectly raise the reight rate.
Don't try to winter weak colonies. If them syrup made save all you can, feed s somp made from granulated sugar so that breeding will be kept up until they are strong in bees. These often make your best colonies in the spring. If you cannot do this you had better
unite two or more in the fall, for a weak colony in the fall is usually for a weak colony in the fall is usually a dead one
in the spring.

## Practical Science.

TUBERCULOSIS.-(Continued)

by floyd w. robison.
Symptoms by which Tuberculosis is Recognized.
Before describing the symptoms or signs by which tuberculosis is recognized
or suspected in a living animal, it is well or suspected in a living animal, it is well
to say that there is no symptom which can be relied on with certainty which can be relied on with certainty. Any of the symptoms may sometimes be caused them is characteristic of tuberculosis them is characteristic of tuberculosis
alone. Many of the symptoms that are relied
on by the human physician in reaching his opinion are not available in examin. ing cattle. The thickness of the skin and the chest wall, for instance, makes it difficult to detect a diseased condition of their lungs by listening to the sounds made in breathing, whereas this is comparatively easy in human beings.
It must also be clearly remembered that cattle may be very badly diseased and yet show no symptoms of ill health. They may be fat and sleek, looking the picture of health, while their lungs and other organs are full of tubercles. Such cases can only be detected by the tubrculin test.
As tuberculosis may attack almost any organ of the body, we may have in each
case the symptoms connected with the case the symptoms connected with the
part affected as well as those affecting part affected as well as those affecting
the general state of the body as a whole. the general state of the body as a whole.
We will take up in detail each of the more important symptoms suggestive of the disease.

## Unthriftiness

The animal is not doing as well as it should for the care and feed it is getting. Its coat is rough and its skin has lost it suppleness and feels harsh and thick. Along with the unthriftiness is noticed
a gradual loss of flesh as the animal gets a gradual loss of flesh as the animal gets to be pining away, and such cows have to be pining away, and such cows
been known to dairymen for a long time under the name of "piners," or "wasters." After a time they are reduced alclearly the symptoms of unthriftiness and loss of flesh, being very weak and thin, but are heavy milkers and even in their weak condition continue to give an abundant quantity of milk. Cows of this kind are, unfortunately, too numerous in dairy herds. The temptation to keep such cows and to use their milk is greater
than some persons can resist. Such cows are a great danger to other animals that may come in contact with them, and the use of their milk in a raw state is very
apt to cause tuberculosis alike in young persons and lower animals.
This symptom is only present when the disease is attacking the lungs or some part of the breathing organs. It is not a loud, sonorous cough, but rather a subdued and infrequent one, and may be stable is first opened in the morning or when the animal is driven. At a late stage of the disease it may be heard at
any time of the day. Cows do not usually appear to cough up anything. This is because they do not spit. Most of the
material coughed up from the lungs is swallowed, but many tuberculosis germs escape from the mouth in the form of
spray or are discharged from the nose. Enlarged Glands.
Enlargements in the region of the
throat, especially when they cause difficulty in breathing, are very likely to' be due to tuberculosis.
Loss of Appetite.
This symptom is not seen until the later stages of the disease, when the animal is evidently wasting.
Diseased glands in the chest some times prevent the usual passage of gas from the paunch to the mouth by pressing on the gullet. In this case the cow suffers from bloating, and the paunch is is not a very frequent symptom.
is not a very frequent symptom.
is seen in cattle affected with the in the bowels. This kind of diarrhea can in the bowels. This kind of diarrhea ca When tuberculosis known treatment. no change can be detected at first but after a time hard lumps can be felt in some parts of the organ after it is milked be used, as it is almost certain to not teeming with germs of the disease.

## Coming Features

By R. E. Olds, Designer

From this time on, when you buy a car, these are things to watch for.

Left-side drive-
Center controlOversize tires-Set-in dash lights-
Free entrance in front-
Right-side drive has been abandoned by the leading cars. Hereafter drivers will sit close to the cars they pass.
Skimpy tires are out-of-date. So are projecting side lamps. So is a blocked front door. These features are absent in the best cars now. They'll be absent in all cars soon.

## Reo Rod Control

Note that Reo 'the Fifth has all these new features. And our center control is a one-rod control-an exclusive Reo feature.
All the gear-shifting is done by moving this rod three inches in each of four directions. It's as simple as moving the spark lever.

There are no levers, side or center Both brakes are operated by foot pedals. So the driver's entrance on either side is clear. He need never dismount in the street.
When you see these features you'll not want a car without them.

## Other Advances

Then the Reo marks the latest practice in some other great respects: Analyzed steel -
Vast overcapacity -
15 roller bearings-
190 drop forgings-
A $\$ 75$ magneto-
Doubly-heated carburetor-
Rc:̈̈er bearings cost five times what common bearings cost, but they do not break. Drop forgings cost twice as much as steel castings, but they don't have flaws.
In Reo the Fifth, steel is all made to formula. The gears are tested in a. 50 -ton crushing machine. The springs are tested for 100,000 vibrations.
Each driving part, for big margin of safety, is tested for 45 horsepower requirements. Each engine is given five long tests- 48 hours altogether.

Parts are ground over and over Important parts are hand-fitted. Nothing is left untested.

## What They Cost

These things are costly. Oversize tires cost us $\$ 60$ extra. Our unusual features, all combined, add $\$ 200$ per car to our cost.
But we save this for you by building only one model. That saves about 20 per cent.
And these things are essential in a car that endures. A car without them may run well for a while, but the second season repairs and troubles come.

Reo the Fifth marks the best 1 know after 26 years of car building. I would not buy a lesser car myself, so I shall never build one.

In the years to come you'll save hundreds of dollars by having a car built like this.

Sold by 1,000 dealers. Show rooms almost everywhere. Catalog on request.
R. M. Owen \& Co., General Sales Agents for Reo Motor Car Co., Lansing, Mich. Canadian Factory, St. Catharines, Ont.


## Here's Walter Johnson

Washington "Nationals" (Ameri-


Please mention the Michigan Farmer when you are writing to advertisers and you will do us a favor.


[^0]The Michigan Farmer The Lawrence Publishing Co. Editors and Proprietors.

 е. $\mathbf{H}$. HOVGHTON...................Buaines





Size of Farm vs. $\begin{gathered}\text { There has ever been an ance of opinion } \\ \text { difterentit. } \\ \text { among good }\end{gathered}$

Department of Agriculture has attemptan investigation of many farms in Michigan and other states to determine the
relation between the size of the farm and the profit derived from it. This re port states that a minute study of some
600 farms in Newaygo county revealed small farms were not making expenses, and the general conclusion was reached the smallest unit of land upon which The supplementary statement is made, arms in Newaygo county are of fair size and their operators are earning a fair
This report was published in the form f the Farm Management Bureau of the United States Department of Agriculture, written by a leading Washington news-
paper correspondent and published in a Detroit paper. The interview was refarm management and field studies and ion as to its accuracy. He replied with edge there has been no such investigamade, last summer, by the Office of Farm Management, a study of about 630 farm received a tabulation of these results so
that it is difficult for us to comment upon them at this time.
them at this time. * * I do not know
were, other than what is reported in the
article which you sent me but I am in-
clined to think that he would qualify those statements in such a way that they would be made to apply to particular
types of farming rather than to farming in general.
It thus seems probable that this report
which has been circulated in the Michiwhich has been circulated in the Michi-
gan press in a semi-official form may be erroneous as to facts which will appear in the official report of these investigagretted as tending to discredit the farm management work taken in this state and which undertaken in this state and which already promises much in the
Michigan agriculture.
It appears that similar investigations that the results are soon to be published that the results are soon to be published
as a warning to city people who formerly
which they never have seen in the belief kinds of expedients to rid the premises
that farmers are making money so rap- of them, most of which, however, resulted idly that they cannot go wrong on such in failure. In fact, there is but one ceran investment. If the publication of sta-
tistics resulting from this investigation accomplishes the result of disabusing the public mind of the impression that the farmers of the country are coining monaccomplished. It would appear, however, that the conclusion above referred to,
that farming on less than 160 acres of land is an unprofitable venture is ill ad vised, else it is a sad commentary on
Michigan agriculture. The last census figures show the average size of all Michigan farms to be 92 acres, including un-
improved land, and a fraction over, 62 acres each of improved land. If the assertion accredited to Dr. Spillman in this
press report were true, it must logically ollow that agriculture in Michigan has,
on the whole, been an unprofitable venture for the farmers of the state.
The trouble with investigations of this sort, and the reason why they cannot be definitely, is that the personal equation of account. Probably a majority of the more
capable farmers who began with small farms have added to their holdings until the side of the larger farm, yet there
 this settement of the question of the re-
lation or the of or of the farm to the
profit from it as final and authoritative. The Money Market. comment was made interest rates on good farm loans which was revealed by an investigation of this counties in central Michigan. Another cial institutions and capitalists to hoard
money is found in a recent report from ment is made that an installment the construction of good roads remained bids were received on the date set no the receiving of bids. As a result it i county will be delayed for the want of
available funds, although a similar amount of the same authorized issue of offered. When bonds of this character do not find a ready sale at this season of of a restricted money market the legitimate cause of which is difficult to analyze.
While
egree of but reasonable to expeot both banks and capitalists as a precaution against any business disturbance f pending tariff legislations is is possible that the decline in average prices to the present apparent scarcity of conted tate A recent computation by the United tates Department of Agriculture indi cates that average prices for farm pro-
ducts were about 28 per cent lower on June 1, 1913, than on the same date in per cent lower than in 1910 and 17.3 per cent lower than in 1909. If this is a con-
tributing cause to the present situation, however, there is hope in the fact that
prices for agricultural staples appear to have reached the low mark and are now
in the process of reaction, since the same eport states that the average prices re ceived by producers for staple crops in
creased about 4.3 per cent from May o June 1 of the present year, as comdured with an increase of 1.2 per cent an average increase of a.4 per cent during the same period of the last five years.

## Eliminating the Rat The annual loss from

 Nuisance. mice would seem large if it could be shown in the aggregate, but the waste caused by rats is much larger. It is asufficient argument for the elimination of sufficient argument for the elimination of
the rat nuisance in itself, to say nothing of the sanitary reasons for such a course. In sections of the country where ther has been an epidemic of rats, organized rat hunts have been conducted with a
view to reducing their numbers and the Fonsequent annoyance to the inhabitants. who are now buying small tracts of land experience that they have resorted to all
tain method of eliminating the rat nui-
sance, and that is to starve out the rats. New buildings should be constructed so that they will be rat proof, and old buildings, especially where grain or other pro-
ducts which the rats can utilize as food are stored, should be made rat proof. Then, and only then, will the rat nui-
sance be eliminated, And the elimination sance be eliminated, And the elimination
of the rat nuisance by this means and by removing piles of old material or rubbish which harbor rats will be found a profitable and satisfying investment on any farm.

## Prize Farming.

 It appears that the sysboys' and girls' to stimulate interest in country over has outgrown its original scope in some sections of the south wherethis movement originated. this movement originated. According to
a recent estimate made by the Farme ducational and Co-operative Union, of Texas, over $\$ 250,000$ has been spent in past five years. This has been done largemen have taken in the proposition, and this fact has caused the executive comtioned to make an investigation of the proposition with a view to pointing out more practical lines of co-operation for
those who desire to render effective aid agriculture of the state

organization, on the ground that its edu-
cational value is too limited to be of any the child from practical to fancy mind of nd that its effect is immoral where the t of growing a prize crop exceeds the the product. The assertion is farming a childtike appearance and ac-
knowledges the farmers as delinquent, feeble and incompetent. The conclusion
is reached that the assembling of the best products of the farm in a community value and in competition for small prizes

large prizes before the crop is grown is
declared to be damaging to agriculture as

The Gettysburg As previously noted in islature made an appropurpose of paying the transportation of Michigan's Civil war veterans who par ticipated in the Battle of Gettysburg on
July $1-2-3,1863$, to the reunion which will be held on the battle ground on the fifthe. It later developed that the antous bat tion would not cover the cost of the transportation of all the applicants, and possible this appeared an almost insurmountable obstacle to the participation of Michigan's veterans in the event. But a Representative Weidenfeller, of Van Bu ren county, who interested himseif in the railroads to transport the veterans the hold over their claim for the shortage until the Legislature could make
another appropriation. This he succeeded in doing by personally guaranteeing the
payment of same in case the Legislature payment of same in case the Legislature
fails to make the appropriation. Thus Michigan's veterans who participated in the Battle of Gettysburg are assured the opportunity to review this stirring period
of their lives on the scene of action. While the state pays the transport ishes sleeping vans, the government fur nishes sleeping tents and camp equip-
ment, and the state of Pennsylvani ment, and the state of Pennsylvania feeds
them while there. For them it will be a celebration of the National Holiday whic will offer greater attractions, though ac companied by sadder memories, than any in which they have participated since the in which they have
days of their youth.

## Flag Day. Following a precedent first es-

 Ferris has issued a proclamation urging all eitizens of Michigan to display on that day "the most beautiful and the most significant of all the flags of all the nations of the earth," to the love and reverence the Flag and what should be responded to by country which Blue for decorative purposes on June and

## JUNE 14, 1913

## Farm Commerce.

WANT TO BUY Registered Holstein $\stackrel{\text { breeding. w. H. H. WERTZ, wooste }}{\text { BREEDERS' DIRECTORY. }}$ CATTLE.
Aberdeen-Angus.

 GUERNSEY BULL CALVES, YORKSHIRE PIGS. Good Stock. Hicks guernsey farm, Saginaw. W. S., Mich.

 HEREFORD BULLS FOR SALE Also Poland Coiron Bull Calves from A. R. O, dams. Sired by A FEW CHOICE Holstoin Friesian. Bnll Calvee
 layers egss 15 for S1. W. B. Jones, Oak Grove, Mich


## "Top-Notch" Holsteins.

 MOPHERSON FARMS CO., Howoll, mlohlgan.
FOR SALE-HOLSTEIN BULL CALF
$\qquad$
ED. S.LEWiS. Marshall, MIch:

H OLSTE IN CATTLE The Greatest Dairy Breed Holstein-Friesion, Asso., Box 164 , Brattloboro,Vt.

Service Bulls and Bull Calves Sired by Johanna Corcordia Champion,
$\qquad$ and heifers bred to him. I can offer you bulls at Feyette. E. CONNELL
Bigelow's Holstein Farms Breedsville, Mich.
Have for sale several fine young bulls out of cows with high official butter and milk records.
Send for circular.
THIS HOLSTEIN BULL


HATCH HERD HOLSTEINS
HOLSTEIN BULLS.



## Lillie Farmstead Jerseys


For Sale
FOR

Jersey Cows and Heifers
They Keep It Up

The Jersey




 Dairy Shorthorns - Large Cattle Heavy Milkera:
No otoock for
 SHEEP.


Reg. Ramobuillet Sheep, Pure Bred Poland China H. Mos and PERCHERON HORSES. ${ }^{2 \%}$ miled SHROPSHIRES \& DUROCS HOGS.

 EERKSHIRES ${ }^{-\mathrm{Male}}$ and female from


 O. I. C. - Big growthy typo. hast fall gilts and this O. II. C'S ${ }^{-1}$ EEEW RRER SOWS FOR O. I. C. SWINE





 DUROC-JERSEYS - Fail and Spring boars frow
 MALES ALL SOID BUT ONE Fan ory fall sita for sale DUROC JERSEYS-BRED GILIS FOR SALE.
 POLAND CHINAS

Butler's Big Bone Poland Ghinas We have a few nice fall boars, also some big sows
bred for fall farrow, Our hogs are all cholera proof.




BOARS AND SOWS - large type. ifired
 Lillie Farmstead YORKSHIIRES
 SALE OF HOLSTEINS
HOMPLETE DISPERSION SALE TIOLS - INO
On Thursday, June 19 , will offer at Public Sale my
Entire Herd of 53 purebred Holstein-Friesian Cattle.

## Markets.

## GRAINS AND SEEDS.

Wheat.-The deaine
June 11, 1913. hat started over two weeks ago has con ime, the amount eek totalling 3 c for cash and only a
raction for futures. While two months ago prices were largely dependent upon pects in this country seem to be the big tem in making values, and the present
lecline is ascribed to the crop now grow-
ng which promises to be large. The government crop report places the condition for all wheat at 87.2 as compared
with a ten-year average of 86.1. The av-
erage yield for the country is estimatat 15 bushels per acre. Of course, there
 day adas to the ese urity eoph thavorabien
now made It seems to be the opinion of
not








 week's quotations are:

## $\substack{\text { Thurssay } \\ \text { Fridiay } \\ \text { Sanduran }}$ <br> Saturay Monday

Wednessay



 for August. The supply seems to be
ample
chicaso-The condition of this trace
remains the same as as ast week with prices


## FLOUR AND FEEDS.






 ${ }^{\text {sita }} 13$ per ton.

## DAIRY AND POULTRY PRODUCTS.

Butter- There has been little change
in butter since this time last week. El-
gin declined $1 / 2 \mathrm{c}$ on Monday but the local bulls, $\$ 6.50 @ 7$; bologna bulls, $\$ 6 @ 6.50$;
market is steady at a fractional gain over stock bulls, $\$ 5.50 @ 6 ;$ best milkers and
last week's figures on creamery stock. springers, $\$ 65 @ 85$; common kind do., $\$ 40$ market is steady at a fractional gain over stock bulls, $\$ 5.50 @ 6$; best milkers and
last weeks figures on creamery stock. springers, $\$ 65 @ 85$; common kind do., $\$ 40$
Detroit jobbing prices rule as follows: @55.
Fancy creamery, 271/2c; firsts, 26c; dairy, We had a liberal supply of hogs today,
22c: packing stock, 20c per 1b.
 about 110 double decks. Demand was
fairly good, althougn prices were 5 . 10 c
lower; general sales of mixed grades and
yorkers 9 c , with a few at $\$ 9.05$; one fancy
load of hogs selling up to $\$ 9.15$. Pigs and
ights, $\$ 9 \mathrm{G} .10$. showed a great gain for the week, and
prices were more or less lower except prices were more or less lower except
for fat stock, while spring Iambs dexlined
fully 50 , selling at $\$ 6 @ 8.50$ per 100 lbs.

 $\$ 5 @ 7.40$;
ers, $\$ 4.2$
$\$ 3.25 @ 4.2$ focks
0 ; yearlin
4.25 .
 d, current offerings, candled, being quot-Chicago.-This market is steady with
some improvement in the demand report-
ed. Miscellaneous receipts, cases included, are quoted at $161 / 2 @ 171 / \mathrm{c}$; do., cases
returned, $16 @ 17 \mathrm{c}$ ordinary
firsts, $173 / \mathrm{c}$;
firsts, $181 / 2 \mathrm{c}$; storage packed, firsts, 22 c New York.-Steady and unchanged.
Fresh gathered extras, $22 @ 23 \mathrm{c}$; western
gathered, whites, 20 @23c per dozen.
Poultry, poultry.-Business in the local market

| $\overline{\text { Chicago }}$ |  |
| :---: | :---: |
|  | Cattle. Hogs, Sheep. |
| Received today | . 21,000 55,000 15,000 |
| Same day last yea | $\begin{array}{llll}\text { ear. } \\ \text { ek } \\ .45,544,277 & 44,606 & 16,474 \\ 155,276 & 96,710\end{array}$ |
| Received last week | $\begin{array}{llll}\text { ek. } . .45,277 & 155,276 & 96,710 \\ \text { year. } 33.926 & 128,243 & 86,064\end{array}$ |
| This week opens | ns with a lively demand |
| for cattle, with steers largely a dime |  |
|  |  |
| prices. Hogs are active, but the liberal |  |
| run makes prices 5 c lower, the best going |  |
|  |  |

## The crop reporting board of the bu- eau of statistics of the Department of Agriculture, from the reports of the cor- respondents and agents of the bureau espondents and agents of the bureau eport on the condition and area of the leading crops of the country as follows: Spring Wheat.-Acreage, $18,663,000$; conSition. 93.5 per cent of a normal; indicaent; indicated yield, 15.9; production, $92,000,000$. All Wheat. <br> $\qquad$ t; yield, 15 ; production, 744 .- as compared with $730,000,000$ Oats.-Area, $38,341,000$ condition, 87 ; ield, 28.8; production, $1,104,000,000$ bu., as compared with $1,418,000,000$ bu. in 1912 . Barley. Area, $7,255,000 ;$ condition, 87.1 ; eld, 24.4 ; production, $177,000,000$. Rye.-Condition, $90.9 ;$ yield, 16.5 . <br> Ray.-Condition, 87.9 ; Pastures.

## MICHIGAN CROP REPORT

Wheat.-The average condition of wheat
83 in the state and southern counties, is 83 in the state and southern counties,
81 in the central counties, 85 in the
northern counties and 92 in northern counties and 92 in the upper pe-
ninsula. The present condition of wheat
is practically is practically the same as reported on
May 1. The condition one year ago was 58 in the state, 48 in the southern coun-
ties, 60 in the central counties, 73 in the
northern counties and 94 in the upper peninsula. The per cent of wheat sown
that will be plowed up because winter killed or otherwise destroyed is 5 in the
state and southern counties, 6 in the central counties, 4 in the northern coun-
ties and 2 in the upper peninsula. The
damage by Hessian fly is 5 per cent in he state, 8 in the southern counties and in the central and northern counties.
Rye.-The condition of rye in the state and southern counties is 88, in the central and in the upper penisisula 94. Onnties 90
ago year
the condition was 78 in the siate, 76 in the southern counties, 74 in the cen-

$$
\begin{aligned}
& \text { ind } 94 \text { in the upper peninsula. } \\
& \text { Corn.-The acreage of corn planted or }
\end{aligned}
$$ or be planted as compared with last year,

100 in the state, 99 in the st 103 in the northern counties and counties and peninsula. The condition of corn as as
compared with an average is 84 in the state, 82 in the southern counties, 87 in Oats.- The condition of oats as com-
ared with an average, is 90 in the state, pared with an average, is 90 in the state,
central and northern counties, 89 in the
southern counties and 97 in the upper The condition one year ago was 87 in
he state, 90 in the southern counties, 79 in the central counties, 86 in the northern
counties and 97 in the upper peninsula. that will be sown as compared with last
year is 89 in the state and northern coun-
ties, 92 in the ties, 92 in the southern counties, 83 in
the central counties and 97 in the upper Meadows.-The condition of meadows as state, 85 in the southern counties, 78 in counties and 91 in the upper peninsula.
The condition one yar ago was 89 in The condition one year ago was 89 in
the state, 85 in the southern counties, 90
in the central counties, 94 in the north-
ern counties and 101 in the upper peninsula.
Potatoes. - The acreage planted or to be
planted as planted as compared with last year is
93 in the state and southern counties, 92 in the central counties, 96 in the northThe condition as compared with an av-
erage is 89 in the state and southern counties, 87 in the central counties, 92 in
the northern counties and 94 in the up-
per peninsula. Sugar Beets.-The acreage of sugar
beets planted or to be planted as compared with last year is 84 in the state,
79 in the southern counties, 87 in the ties, and 97 in the upper peninsula.
Colts and Calves. -The number of colts as compared with last year is 93 per cent
in the state, southern and northern coun-
ties, 92 in the central counties and 95 in the upper peninsula. The number of
calves as compared with last year is 96 per cent in the state, 95 in the southern
counties, 94 in the central counties, 97 in
the northern counties and 101 in the upper peninsula.
Fruit.- Fruit correspondents in 26 of
the 28 counties in the southern four tiers of counties, 11 of the 13 in the central
counties, 16 of the 27 in the northern counties, 16 of the 27 in the northern
counties and 4 of the 15 in the upper
peninsula report serious damage to fruit. by the heavy frosts on May 8 to 11 , which
has reduced the prospect of the warious has reduced the prospect of the various
kinds of fruit considerably below the figures given in the May report.
The following table will show the prospect at the present time for a crop of the
various kinds of fruit in the state and


THIS IS THE FIRST EDITION
In the first edition the Detroit Liv
all other markets are right up to date,
Thursday's Detroit Live Stock markets
are given in the last edition. The first
edition is mailed Thursay, the last edi-
tion Friday morning. The first edition is
paper early than they do for thursday'
may have any edition desired.
ers may change from one edition to an-
other by dropping us a card to that effect.
DETROIT LIVE STOCK MARKETS. Cattle. June 5, 1913.
Receipts, 857. Market steady with Wed nesday or last week on all grades.
We quote: Best steers and heifer, $\$ 8$
$@ 8.50$; steers and heifers, 1000 to 1200
$\$ 7.75 @ 8 ;$ do. 800 to $1000, \$ 7 @ 7.50$, do. that
are fat, 500 to 700 . $85.50 @ 6.50$, choice coms, $\$ 6.50 @ 6.75$; good do., $\$ 5.75 @ 6.25$;
$\qquad$ $\$ 7 @ 7.35$ fair do., 800 to 1000 . $\$ 6 @ 6.50$
choice stockers, 500 to $700, \$ 6.25 @ 6.50$
fair do., 500 to $700, \$ 5.50 @ 6$, stock heif
$\qquad$

to Kamman B. Co. 12 steers av 1010 a
$\$ 7.95,1$ cow wetghing 850 at $\$ 5.75 ;$ to
Bray 2 cows av 895 at $\$ 5.25,8$ do av 931
at $\$ 5.25,2$ canners av 85, at $\$ 4.25 ;$ to to
Newwon B. Co. 2 steers av 810 at $\$ 7 ;$ t
Hammond, S. \& Co. 2 heifers av 460 .
$\$ 5 ;$ to Wyness 4 do av 955 at $\$ 6$ av 880 a
Newton B. Co. 2 do av 780 at $\$ 6$.
Bishop, B. \& H. sold Bresnahan 3 cow
$\qquad$
$\qquad$
av 955 at $\$ 7.60,9$ cows av 972 at $\$ 5.90,1$ $\$ 7.75,3$ cows av 1030 at $\$ 6$; to Mich.
$\qquad$

$\qquad$
$\qquad$
to Thompson Bros. 2 cows av 950 at $\$ 4.25$;
to Sullivan P. Co. 3 butchers av 800 at
$\$ 6,5$ do
$\qquad$
av 893 at $\$ 7.75,3$ do av 940 at $\$ 7.65,1$ do
weighing 680 at $\$ 7$.
av 1080 at $\$ 6 ;$ to Kewton 3 , do av 810 at
$\$ 7.25,2$ do av 790 at $\$ 6,1$ do weighing
1100 at $\$ 5.75,{ }^{1}$ do weighing 930 at $\$ 5$; to
Breitenbeck ${ }^{5}$ butehers av 808 at $\$ 7.25$,
2 bulls av 1000 at $\$ 6.40,2$ cows av 1035
$\qquad$
5 bulls av 778 at $\$ 6.25,2$ do av 1400 at
$\$ 6.75$.
Haley \& M, sold Mich, B, Co, 2 bulls av
$\qquad$

Bresnahan 9 bulls av 650 at $\$ 6.35$; to
Mich. B. Co. 12 steers av 1104 at $\$ 8.15$,
1 do weighing 730 竍
Lowenstein sold Goose 7 cows av 963
at $\$ 6$.
746 at $\$ 6.75$.
Robb sold Kull 2 steers av 910 at $\$ 8$,
Veal Calves.
Receipts, 1165 Market steady at Wed-
nesday or last week's prices. Best, $\$ 9.50$
@10; others, $\$ 5 @ 8,75$; milch cows and

at $\$ 10,2$ av 180 at $\$ 7.50,1$ weighing 12
at $\$ 9.50$, 4 av 150 at $\$ 9.75,5$ av 125 a
$\$ 9.50,2$ av 170 at $\$ 10,1$ weighing 130 a
$\$ 10,{ }_{2}^{2}$ av 225 at $\$ 10,9$ av 150 at $\$ 9.50$,
sumivan P.Co. 4 av 140 at $\$ 9.75,6$ av 13
$\$ 9.59,1$ weighing 120 at $\$ 10,8$ av 1400 a
$\$ 9.50,2$ av 145 at $\$ 10,15 \mathrm{av} 140$ at $\$ 9.75$

MeGuire 14 av 140 at $\$ 9.75,17 \mathrm{av} 150$ at

Loss of Vision.- I recently bought a fine
ten-year-old mare that was sold to me
ten-year-old mare that was sold to me
as blind. I am inclined to believe that
she can see some out of one eye and as
the eye has retained its natural color, I
$\qquad$
$\qquad$
$\qquad$
$\qquad$
using her.
Founder-My three-year-old filly has
$\qquad$
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$\qquad$
$\qquad$ at $\$ 9.75,25$ av 135 at $\$ 8.50$. $\$ 9.35,2$ av 140 Haley \& M. sold Newton B. Co. 10 av
151 at $\$ 10,2$ av 105 at $\$ 8,16$ av 150 at $\qquad$
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CROP AND MARKET NOTES.
$\qquad$
$\qquad$
$\square$
$\square$
$\qquad$
$\square$
along. Cows are generally looking well,
hogs and small. pigs are bringing good
money. Light frosts June 7 and 8 .
Indiana.
Laporte Co., June 9.-Heavy frost on
the morning of the 8th and 9th; mercury
34 degs, before sunrise on the 8th; 36
$\square$
$\square$
$\square$
$\qquad$
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$\qquad$
We Want HAY\&STRAW
We get the top price on consignments, make
liberal advancem 9 -ts and prompt remittances. Daniel McCaffrey's Sons Co. PITTSBURG, PA.

$\square$

$\square$

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Roe Com. Co. sold Hammond. S. \&
Co. 6 av 145 at $\$ 9.50$. 9 av 120 at $\$ 8.10$
av 167 at $\$ 10,1$ weighing 230 at $\$ 10.50$, $\qquad$
$\square$
$\square$
teaspoonful of salt at a doze in feed three
times a day.
Sprained Fetlock Joint.-One year ago
$\square$
$\square$ E. N, Mancelona, Mich.-Apply one part
red iodide mereury and fix parts fresh
lard to hard bunches on fetlock joint ev-
$\qquad$
$\qquad$
$\qquad$


KRISO DIP NoI INEXPENSIVE KILLS LICE

ON ALL LIVE STOCK DISINFECTS. CLEANSES. PURIFIES. It has so many uses that It is
a necessity on every farm. CURES MANGE, SCAB, RINGWORM, SCRATCHES Destroys All Disease Germs DRIVES AWAY FLIES Write for Free Booklets PARKE, DAVIS \& CO. DETROIT. - - MICHIGAN

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BiggestThing in the Clock Business
Big Ben is the biggest thing today
n the alarm clock business. He is, only two years and a half old.
but he's already getting more work but he's already getting more work
from the States than any clock alive. In two years and a half time, 18,000 jewelers- $70 \%$ of the total number of
United already adopted him. Two million
and a half families leave it to him to and a half families leave it to him to
call them up in the morning. Two mallion and a half families use him
all day long to tell the right time by. He is really two good clocks in onecrackerjack of an alarm. Big Ben stands seven inches tall.
He is triple nickel-plated and wears an inner vest of steel that insures him
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morning light. His large, comfortable
keys almost wind themselves. He rings five minutes steadily or ten
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price is $\$ 2.50$ anywhere in the states,
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## BIG BEN



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Save Work, Time, Money

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Road Machinery



 long at $\$ 1,00$ each, complete. Send for samples.
HOLLAND CITY ROD CO., Holland, Michigan.

Home and Youth

A BOY'S SOLILOQUY
by charles h. Chesley wonder why I like to do the things Pop
says are wrong; I seem to be a-hunting for trouble right
along.
'Tis easy to remember the things I should not say,
And then I, get a scolding-but there,
I'm built that way. I wonder why the apples in Johnnie Cres-
Are nice and sweet and juicy, while ours Are nice and sweet and juicy, while ours
are sour and hard.
Pop says they are alike, but I can't see
it just that way, And so I get a scolding 'bout twenty
times a day.
I wonder why I like to pull our tabby


I wonder why I like to go a swimming
with the rest;
Ma says 'tis awfull naughty, and I s'pose
she knows the best, But all the kids are there, you know,
'most ev'ry summer day.
I guess they all are naughty-boys must
be built that way. AN UNSPEAKABLE AFFLICTION.
BY RUBY BAUGHMAN.
"I just wonder where they ever came
from," complained Margaret rattling the
old paint brush vindictively against the
sides of an old tin can that smelled sick-
eningly of gasoline.
"I'm almost sure that I brought them
home with me from the Lakes. The cot-
tage was-I saw some in the cottage, I'm
sure. Of course they could easily get
into my things."
"I guess one is enough for a start,"
sighed Margaret looking anxiously along
a mattress seam.
"I don't know how many I brought but
I'm sure we got the start. If one could
only ask somebody what to do! I've read
the cook book and the fles of the Medi-
cal Companion clear through, and from
the unsympathetic silence they maintain 1 judge that the only pemmos such
a calamity ever befell. They're worse
than a suicide in the family."
"I'm glad Mother's gone. She'd very "Everything seems so useless. Day un-
to day uttereth speech about some new
scheme of assassinr n; night unto night
showeth knowledge that mut scheme of assassin $n$; night unto night
showeth knowledge that murder has not
been committed," poking sadly into the recesses of the ereaking springs.
"The gasoline cure is decisive if it once
touches them. But how can one be sure
we've reached them-every one?"' "Things are pretty well drenched now
in these rooms. They smell like Standard
oil tanks. Now let's get the sulphur go-
ing next. It's a good thing we can sleep ing next. It's a good thing we can sleep
on the porch-roof. No human can sleep Carefully planting an old iron kettle in
the middle of the floor she put into it
first some crumpled bits of paper; over
these she poured a liberal measure of the delicated-tinted "cwers of sulphur.
"They're off,". she laughed, setting a
match to the death-dealing powder "May they die in peace."
"They seem to die only in pieces and In each of the upstairs sleeping rooms
the girls set the destructive fumes. Out of the cracks of doors and windows pour-
ed the pale blue smoke; even the keyhole puffed out jets of cerulean vapor.
A pungent odor bit into the eyes and ungs and drove them down stairs
felt like an inferno; now it smells the
part," lamented Beth with a degree of satisfaction as she opened the windows of
the sitting $\eta$ and looked down the
avenue of elms to the distant squares of vari-tinted oats, corn, and meadow fields. ry again. I dislike the city more every In that case, why remain there?" in quired the stay-at-home sister mildly,
"Because my work is there. I like to feel that I'm doing something worth doing nothing worth while staying here vith father and mother. But there will e time enough for me to come home to ve when you have gone to keep house
Robert," and she watched the pink

## et's gentle face. "But do you never-"

"Oh, I know very well that you think this idea of being staked fast. I'm willing to admit that the tethered cow has the richest grass-usually,-but I'd rather have thinner picking over a wider range. When I run across a situation that can't handle better alone than with a Look at Jennie Jenkins. I don't see that she improved her condition much. She was making good money teaching-advancing in years though, I'll admit, and alone. But now sh's got a sick husband,
two babies, no money-compelled to live with her mother-in-law-hemmed in like Caesar's army oy the enemy and the na-

$\qquad$ knowing that Mrs. will be engraved
her tombstone. Was her tombstone. Was any odor ever
utterly unbearable as that combination gasoline and sulphur!"
"I could stand John Reed, maybe," more warmly than Margaiet's laughing
comment would seem to warrant "but his step-mother! I don't care if she is my own father's only sister. Why on earth Aunt Martha for his second choice, I can't see. And then to die and leave her on
John's luckless hands-". "That might be an argument for alle-
 something. You can always judge a wom-
an by the motives she imputes to others. And when she can't confirm her suspi-
cions she just insinuates things. It takes cions she just insinuates things. It takes
me a week to figure out what she means me a week to figure out what she meańs
to imply and by that time I've forgotten

PUT AWAY PICKLES Mathematiclan Risurres out the Food

If anyone requires a clear head it is teacher of mathematics full cone abstract as it were, and rrention of mind is necessary if An Ohits are to be forthcoming. "I am a teacher of mathematics a for 15 years prior to four years ago, sandwiches a lunch composed of cold hurried home and aui., to school or dinner.
The result was that I went to my brain and generally out of sorts, dull of I learned about Grape-Nuts. Finally began to use it for my noon-day lunch. experienced a great pleasant feeling and sour stomach caused drowsy languor diet disappeared. The drowsy languor and disinclination to work
soon gave way to a brightness and vim in my afternoon work, a feeling entirely "My brain responds promptly to the requirements put upon it, and what is of lasting and more satisfactory, the longer used Grape-Nuts as a food. "My wife had been suffering from weak tomach accompanied by sick headaches heved of these when she sticks to GrapeNuts, either eaten dry or with milk. Her tomach has gradually grown stronger she began to eat Grape-Nuts." "Thero's Reason." Name given by Postum Co., "The Road to Wellville," in pkgs.
Ever read the above letter? A new one appears from time to and full of human interest. true


IST vera 646,48 poone $\int$ bought this famous shoe, because it is better than any other medium-priced shoe in existence.
It is the "Our Family" shoe, and for men, boys, women and children It is honestly made of good leather,
with sole leather heels, counters and with sole leather heels, counters and
soles. No substitutes for leather are ever used.
The "Our Family" is a "Star Brand" shoe. This means that it is better than
other shoes of the same kind at the same-price. The "Star Brand" merchant has an "Our "Family" Shao cut up so you can see
bow it is made. Ask to see it. ROBERTS. JOHNSON: RAND IThe Berlin Quart Our Specialty A White package which msures
lighest prices for your fruit
Write
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 The BERLIN FFRUIT BOX
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Write Geo. E. Schairer, of Saline, Mich., for oironla
of the best combination hay and stock rack price
made
Please mention the Mich. Farmer when writing to advertisers.
shook their knees the two girls went down
the steps past the glowing. geranium borthe steps past the glowing, geranium bor
der to greet their guests, Margaret cor dial, Beth absent-minded.

As they reached the first veranda step the delicate nostrils of Aunt Martha's
high-bridged nose quivered to the attack high-bridged nose quivered to the
of the gasoline-weighted sulphur. tice," to Beth who was nearest to her. "Oh, yes," watching John's broad shoul-
ders with a pre-occupied, perfunctory ders
smile.
$\qquad$
"Oh, you just daub it on thick into evcan and used an old paint brush
$\qquad$ use soap with the gasoline." Beth's dreamy
the vista of elms.

## the vista of elm

, we diant, we burned sulphur in
"Sulphur? What for?" and Beth's dream faded before the shrill surprise in
Aunt Martha's voice. "Why, to kill-
Whatever woman fancies had been soft ening the edge of Beth's antagonism to the fright of her near disaster. sure."
"You're so self-absorbed; I suspect you're working out one of your stories
under our very eyes," accused Aunt Martha. "Not a love story, of course, with the girls about a matter-about a very delicate-very troublesome matter. Would
you mind waiting for us on the north Beth was not deaf.
Meekly, as befits a man in the minority, John started across the sitting room
to comply with the request, then turned coughing.
"This house is full of smoke. Are you sure-I surely smell burning wool."
reached the top step, a tiny flame licked out ait her from the keyhole of the first she pushed it open,
"John! John! John!" she called in a voice that shook as she had never known
her voice to shake, "get the hose below the bay window, quick, from the outside -on the roof of the window! You can't
get in up here," and she ran wildly down past the frightened, fluttering woman and pushed John before her to the porch.
Quickly he grabbed the serpentine coil in his grasp.
"Turn on the water, Beth, when I get up there. Don't try to go up stairs. Stay
where you are."
Before Beth could quiet her asping breath he had reached the roof, broken the pane, and sent the hissing stream in-
to the blazing room. Ages long Beth waited, trembling, stripped of her fem-
inine self-assurance, till this masculine person should announce that the danger was ove
"It's m "It's more smoke than fire," came the
judgment of the sterner sex, as he clam-
bered down. "T'll go up on the inside to
be sure," and he took the stairs three at them on the train-at any rate-" but
Aunt Martha's tongue refused to formu-
late the disgraceful fact. "I didn't know
what to do for them-I never had any-
I couldn't ask-and in my trouble I came
to you girls. I wouldn't even want your
mother to know. I thought you girls, es-
pecially Beth who has seen more of the
world, would be more generous in your
judgment. Even when you've held your-
self fartherest from me," turning to Beth,
"T've thought -" but Beth's arms, closely
clasping her, tilted the gray bonnet to
the last fraction of inconsequence over
the soft, gray waves of hair.
"T'm sorry I've been so hateful, Aunt
Martha. I'm sorry and ashamed. If I
can make up in any way-"
"You can keep. your agreement," inter-
rupted Margaret's soft suggestion. rupted Margaret's soft suggestion. dace with a blue moping a tear-wash"You said you'd give up your solitar independence just as soon as you found ourself in a situation where you really eeded a man to help you.

```
hadn't been a man about, I could have
```

hadn't been a man about, I could have-
but Margaret broke in on this perilous

## but Marga

"But you didn't; you called John. Fur hermore you said if you ever heard Aunt et, as Aunt Martha's gray silk arms folded over the last throb of rebellion against things as they were to be.
"Beth, Beth." interrupted John's voice rom the back porch. "I wish you'd come and tie up my hand. I cut it on the "Tindll him honey, tell him tient "Tell him, honey, tell him right now,
whispered Aunt Martha. "He's waite whispered Aunt Martha. "He's waited
long enough for two belligerent females to come to terms of peace, so
both live with him in one house.'

## ITTLE FARM FABLES

> BY AUNT QUILLIA. A Hapiess Venture.

A witless calf, having become dissatis fied with the pasture in a fine meadow
conceived the idea of bettering his condition by scaling a fence into an adjoining Friends, relatives, acquaintances, al joined in a protest to dissuade him from
his foolish plan, warning him of the danger of the attempt and assuring him that the lot in question was the poorest on the farmstead.
Especially did his mother labor with him, citing instances of disaster that had "Bossie," said she, "it is a wild, im practical scheme. Strong, half-grown cat-
tle, Bull Hereford, Bull Holstein, Bull Guernsey, for exampe, have been caught on those deadly barbs. Young Galloway
so lacterated his hide, intended for beautiful robe, that he was shot the next and all. Lady Jane Jersey tore her
lovely udder completely from her body desist."
But of no avail: So wretched did he his unhappy bawls. Indeed they so got rested all lactic secretion and, one even ly banished from thiling she was ignominousOne night when the rest of the herd
the side of the pasture which bordered on
the promised land. "Nothing venture,
nothing win," said he, whereupon givin
a desperate leap he landed sqarely upon
the summit of the fence. The more he
struggled to release himself the more did
the eruel barbs tear his hide and pierce
Setting up an unearthly
setting up an unearthly bawl he soo
spot. An old ox, taking in the situation,
nd exciting to become popular. I must
go find Mike to help me get that mess
ack," and he disappeared, laughing, to
With an impulsive, almost un-Aunt-
the two girls. Beth felt the old bar
iers melt in some mysterious way before
great flame of common understanding
sing the gasoline
"To assuage an unmentionable family
lf-laughed the
ent Beth.


How Goods- Tear Carriage Tires -Have Swept Into Popularity


No more carriages were sold in 1911-12 than in the previous season. Yet the sales of
Goodyear Wing" Carriage Tires increased
3 per cent in that same perio 33 per cent in that same period. That means
our sales of the preceding two vears were practically doubled. And for two years were
estimated a still further rinc we have estimated a still further increase.
Of the 200 carriage makers in the
now equip cheir carriagers in the U. S., 148
"Wing" Tires-almost 75 per cent
Goodyear Goodyear "Wing" Tires have become the
most popular carriage tires in existence. All because thousands of carriage owners
have used and tested them for 14 years and have used and tested them for 14 years and
learned their superiority.
TheGoodyear "Wing" Tire brings the same year No-Rim-Cut Tire brings owners of year No-kiles. Stop and consider owners of
authose facts
before you buy rubber tires for your carriage.

## The Goodyear "Wing" Tire Note this patented "Wing." How it presses against the channel, thus preventing mud, grit or wavter from gettig in or water from getting in a and quickly rusting the rim and destroying the tire base. Thit stire utmost wear and will protect your carriage and greatly lengthen its life. Being of tough, and Our "Eccentric" Cushion Tire is especially de- singed for lighter vehioles-run. <br> 

## Sandwich (chiniv) Hay Press Supplies Its Own Power



## 98 cents

his wide sharp horns he succeeded a
last, and, tossing him without ceremony

## 5

Year
Guarentee
 Quality Brand Twinne Only $\$ 9.10$ Per Cwt. heard a stock-buyer say the other day Wise men profit by the mistakes o thers, but fools by their own.'
"I am to meet the Duke at the dock." "But he has never seen you, gir him from town-he may have got

## Cook With Oil

## Means Economy,Cleanliness, Ease <br> The modern wife of the modern farmer is a convert to the Scientific Management idea. She has displaced gasoline stoves and coal ranges in the kitchen with the NEW PERFECTION Oil Cook-Stove. Nearly a half million are now in use on farms in the middle west. Highlyeconomical, the NEW PERFECTION is no less efficient. It does better baking, broiling boiling, roasting and toasting than a coal range. But without the dirt, the dust, the excessive heat and the delay of starting fires. <br> Lights instantly. : Burns evenly. Gives forth no odor.

## New Perfection Oil Cook-stove



STANDARD OIL COMPANY, Chicago, Ill.


[^1]When Writing to Advertisers please mention the Michigan Farmer.
?

## Woman and Her Needs. <br> At Home and Elsewhere.

You Can't Move Away From Yourself.

D





bad shape yourself and need a thorough should be fairly hot and they should soak
overhaulingoverhauling. Better stop and take ac- a couple of hours in a good hot soapy
count of yourself and see honestly if you water to loosen up the dirt. The ends orwould be any better off in other surround- any parts may be rubbed on a wash-
ings than you are at present. Wouldn't board or washed in the washing machine.ings, than you are at present. Wouldnt After the comforters are dry, roll and
you act under given circumstances, just
the same in Portland, Me., as you would beat with a smooth round stick. Thishe Poreland, Ore? And have you any will loosen ap the cotton and make theferent for you in the west from what they Quilts.-Wash same as the comforters,are in the east? Human nature is the except that where the colors will not run
same the world over. You wouldn't they should be scalded to make them
change if you cuanged your location, and more clear and fresh.
as folks are folks whether east or west, THE EASTERN WAR AND OUR NEW
if it is outside influences that are dis- THE
If it is outside influences that are dis-
turbing you, you would probably be dis-
turbed fust as much by others in one
CLOTHES.
place as in another.
I remember the first time this was
The high waist lines and tight skirts
which have been with us so
doomed. In fact with us so long seem
particularly annoyed by a neighbor's child seems to be the rule in most of the new
who came to play with mine. Every morn- coats and suits, and blouses and lingeries
the before we left the table he was gowns are rapidly following. Just why
there and every forenoon there was a a war over in a cluster
squabble for me to settle. I thought him states which none of us could bound and
particularly quarrelsome and frmly be- most of us had forgotten existed, should
lieved that if I could move out of the change the style of American women's
neighborhood my troubles would end. I I Inches below the of American women's
remarked one morning to an older neigh. clothes, is one pulled
bor that I would like to move a thousand of Fashion. But changed it is, ansteries
Siles from Johnnie Smith. all you can hear is "Balkan," "Bulgar-
"Well, you'd find another Johnnie Smith ian," or "Roumanian." Stranger
there to help you settle,", she remarked may seem, nothing is "Montenegrin,", even
placidly, "and he might be enough sight $\begin{aligned} & \text { since the capture of Scutari. } \\ & \text { worse than this one. You'll find Johnnie The sum total of the three new styles } \\ & \text { Smith }\end{aligned}$
Smiths any place you go, so why not seems to be vivid colors and dresses and
stay right here and try to adapt yourself suits that look like a meal bag with a
stay right here and try to adapt yourself suits that look like a meal bag with a
to this one you're acquainted with? Of string run around the bottom about six
course I I don't want to
course, I don't want to say anything up just enough to make a few gathers.
about your boys, but I've noticed them "Sloppy," is the way one bold young
quarreling between themselves once or man expressed his opinion of his sister's
quarreling between themselves once or man expressed his opinion of his sister's
twice when Johnie wast't around," and new white dresss. And though the young
with this Parthian shot for Johnnie she woman was highly indignant, most of us
took her departure.
agree with him. After the trim, scant,
of course I snifed at the time. We al- tight-fitting attire of the past two or
ways do when someone tells us something three seasons, the new things the the
we need to know. But the more I thought "queer," to se
we need to know. But the more I thought "queer," to say the least. However,
of it the more I saw she mos rige the
are extreme conditions when changing and are likely to stay with draped skirits,
one's location will affect a great change well accept them and pretend we like
in
in living generally. As when a boy has them, as we did the hobble when it ap-
entirely different neighborhood and giving There will be many a sigh, though, over
in him. But for ordinary everyday liv- for the new clothes. For, where a suit
ing, just getting in with new people will with a hobble skirt could be gotten out
俍
quarrelsome, inclined to sulk in one will require more.
SHORT cUTS TO HOUSEKEEPING.
you are not a success in business at home
you are not likely to be. hroad, unless substitute one teaspoonful of baking
you change your line of business and try
something to which you are better fitted, powder for one egg in griddle cake Sing
In short, if anything is wrong with you must also be used itter griddle cakes. Soda
the thing to do is to stay where you are usual.-Harrietermilk as
and fight it out. Don't blame Joues or To Clean Feathers and white Plumes,
Smith or the town, blame yourself. And -Make a suds of har
Smith or the town, blame yourself. And -Make a suds of half a bar of naptha
then work to remedy your defects.
WASHING BLANKETS, QUILTS AND with warm rain is like a jelly, dilute it
BLANKETS, QUILTS AND with warm rain water. Soak the plume
COMFORTERS.
or feathers in this for ten or fite
To wash blankets, quilts and comfort- ly through the hands to strip out the
they will dry as quickly as possible, Use same temperature. IInse in water of the
soft water if it can be obtained.
soft water if it can be obtained. $\begin{aligned} & \text { streaks left, lay it on a smooth surface } \\ & \text { Blankets.-Woolen blankets should be and with a soft toothbrush rub gently } \\ & \text { washed in luke warm water, never in hot with soap and water working }\end{aligned}$ gity
or cold water, as it shrinks them. Use from the stem. Rinse in clear, warm
ordy
a good white soap or some reliable woolen water, and after wards, if a white plume
soap. Put the blankets to
soap. Put the blankets to soak for 15 , or feather, in bluing water. Draw through
minutes in warm water, soaping the the palm of the hand to squeeze out the
minutes in warm water, soaping the the paim of the hand to squeeze out the
blanket as it is put in the tub, putting water, but without twisting. Pin or
on a little etxra soap where the blanket stitch the stem to a cloth and hand
is most soiled. After allowing to soak, to dry with the thick end of the stem
work the blanket around in the tub, rub- up and the plumage hanging down bing between the hands and applying there is the plumage hanging down. If more soap where needed. Souse the stove until dry. It can be dried out
It blanket several times and wring into an- doors in a gentle breeze, but care' must other warm water, going over blanket to be taken not to allow the wind to break
see if any soiled places have been missed. it or tear the plumage.-Z. I. D.

## Farmers' Clubs

 OFFICERS OF THE STATE ASSOCIA. President-Jas. N. McBride, Burton. Vice-President-C, B. Scully, Almont.Secretary-Treasurer-Mrs. C. P. John Con, Metamora.
Corresponding Secretary-Mrs. Wm. T,
McConnell, Owosso.
Directors-C Directors-C. P, Johnson, Metamora;
H. W. Chamberlain, White Lake; Wm.
T. Hill, Carson City; Jerry Spaulding,
Belding, R. J. Robb, Mason; J. F. Rei-
man, Flint. Adaress all communications relative Associational Motto
The skillful hand, with cultured mind,
is the farmer's most valuable asset Associational Sentiment:
The farmer, he garners from the soll
he primal wealth of nations. The Junior Farmers' Club, so-called,
has proven to be a method by which the young people could be interested in Club
work in many communities in Michigan. Such an organization has, av the same anity in th
here this w This is the age of boys' and girls' Clubs, been even more popular than in the horth nop
but they are becoming popular every generally these Clubs engage in some of corn or potatoes by the boys, the can-
ning of fruit or vegetables or in the prac-
tice of culinary art by the girls. The re-
sult is educational as well as inspiring sult is educational as well as inspirin.
to those who participate in the contest.
At least one County Association Farmers' Clubs has promoted corn con-
tests among the boys of the county thi might well be undertaken under the aus
mices of the organization itself, just as a
unior Farmers Club might be organize Junior Farmers Club might be organized
and given similar interesting work by
each local Club in the state. scheme of that kind this season, but there the junfor organization. For instance it
might be given charge of the work of
promoting a Club fair where cial feature has not been inaugurated by
the local Club. This would prove benefieial to bs be a matter of surprise to the
doubtless
older members that the young folks could
develop as good an event of this kind as they undoubtedly would if given the op-
portunity to try. This is but one of many
ways in which the young folks could be doubtedly great possibilities in the junior
organiza uion, and every local Club would
do well to develop them in an original
way.


## Grange.

ur Motto "The farmer is of more onsequence than the farm, and should be
rst improved." THE JUNE PROGRAMS.
Suggestions for Second Meeting Song.
Roll-call responded to by each givin
favorite verse of poetry. Reading, "The best will ever written. Soil cultivation: ${ }^{1}$. Why cultivat
 Results of leaching agriculture in ou
chools this year, by an eighth gre pil, a teacher, and school officer o
Mock school meeting TWO-DAY MEETING OF GRAND
TRAVERSE POMONA. Seven of Grand Traverse county's te
subordinate Granges were represented he Pomona meeting held at Old Missio The quarterly reports showed that ther since the first of March, the number no
on the rolls being 803 , showed that 43 meetings had been hel
during the preceding quarter, and that
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$\qquad$
$\qquad$
 Tite with a bement tand ground non $\pm=5=$

## $x^{2,5 m a x}$

 $2 \mathrm{mbzix}=2$ $=5=$ culural, Schoo," The Farmer's Worst
Enemy," and "Lower Taxes." Recita-
tions, readings and songs were contribut-
ed by Scott Woodward, Mrs. E. A. Evans,
Mrs, E. J. MeMullen, Mrs. Arvilla Gard.
ner and Chas. H. Drake. Mrs. J. D. Mills ner and Chas. H. Drake Mrs. J. D. Mills
contributed instrumental numbers.
The alfalfa discussion was a most prof-
itable one because it was by men who are crop. Calvin Spangler, of Monroe Center,
opened the discussion by relating his ex-
per nces since he made his first sowing some years since. He had for exhibition
an alfalfa root that proved convincingly
that the plant goes deep into the ground
for its food and moisture. Among the for its food anke upon this subject were
many who spoke
Peter Zimmerman, E. O. Ladd, Herry
Broadnagen, E. J. McMullen, M. J. Gil-
more, Chester Lewis, S. M. Kingsley, and Frank Grubb. From the many remarks
it was clear that only a few of our farm-
eis have yeu discovered the full secret of elfalfa growing.
ald
grou
and

 also mentioned the advantages of a more
complete separation of local and state
taxes, and he gave it as his opinion that one of the very best ways to reduce tax-
es is to reduce the dependent class by
the establishment of Iegal. social and
moral conditions that will make it easier mor people to do right than wrong. The
cost of maintaining the poor, operating
jails and hospitals is one of the chief reasons for high taxes. He felt sure that
much poverty and much wrong doing
could be prevented by the adoption could be prevented by the adoption of
higher moral standards.
A prominent feature of a most excellent evening program was an illustrated lec-
ture entitled "The Economic Geography
of the Grand Traverse Section of Western Michigan," by R. H. Elsworth, assistan
secretary of the Western Michigan Development Bureau. Over 100 lantern slid
views of farm and orchard scenes in this
section were shown. The Granges were section were shown. The Granges were
first in this region to begin a systematic
development of the resources of the region, and it was a pleasure to the mem-
bers to see what a big gain had been
made in the last five years

## COMING EVENTS.

Wayne Co., with West Road and Wil-
ow Granges, in Willow Grange hall, Fri low Granges, in Willow Grange hall, Fri-
day June 13 .
Montcalm Thursday, June 19. Charlevoix Co., with Barnard Grange, at Shiawassee Co., with Center Grange the farm home of Mrs. Julia H, Hender Genesee and Lapeer ing), at Thread Lakee park, Flint, Friday, Eaton Co., with Northwest Walton

## monserase CNADA

Come to Canada now and let us help you pick a choice farm before Che best are taken. The Canadian Government is now distributing 135,000
FREE, fertile farms along or near the Canadian Northern Railway - Wheat FREE, fertile farms along or near the Canadian Northern Railway- Wheat
Farms, Poultry Farms, Dairy Farms, and farms adapted to cattle, hog, sheep Farms, Poultry F
and horse raising.
Even if you have already located your farm you should travel to it over the Canadian Northern Railway and have the added advantage of trav-
eling from 1,550 to 2,500 miles through Canada's richest farming country. Just glance over these low rates-tickets are first-class, round-tri good or twenty-five days, with stop-over privilege. Excursions every first and third Tuesday, via Duluth and Ft. Frances, or via St. Paul and Winnipeg.

 | Prince Alb |
| :--- |
| No Batter |
| Kimonton |
| Kindersle |

Western Canada welcome you. American farmers are getting rich on Canadian farms Get these FREE BOOKS
 R. P. BELL, General Agent
C. DDDITB


## GANADIAN NORTHIERN NAN



## FARMS AND FARM LANDS FOR SALE OR EXCHANGE

FARM FOR SALE

MICHIGAN FARMING LANDS


A First Class Stock Farm For Sale - Coneists of 135

Fertile Farms and unimproved lando in Delaware:






Money-Making Farms ${ }^{-13}$ States ${ }^{\text {sin }}$ sin to ${ }^{\text {sin }}$

AWatch to be proud of for Every Boy that Wants One

 watch without it costing you a cent.
Read this over and then get busy, if you your pocket in watch as goos it's be cause you don't want it bad enough. The watch is the real thing, 16 -size,
nickle case, stem-wind and set, second hand, fine watch movement, and keeps absolutely correct time. It's fully guar--
anteed and if you don't hammer tacks with it or take it apart, in fact, if you will treat it as the frlend it will prove
to you, the manufacturer will keep it in repair for one year without charge.

HERE IS HOW YOU CET IT. Go to three of your neighbors who are
not subscribers to The Michigan Farmer, not subscribers to The Michigan Farmer, or whose time has run out, tell them that
you will have sent to them the Michigan Farmer (the best farm paper in America), every week for a year ( 52 coples) for the three of them and send us the $\$ 1.50$ you collect, together with the cents from neadaresses, and the watch will besent to you at once, post pald. Easiest thing you ever did. The Michigan Farmer used to be $\$ 1.00$ a year and neighbors that you are after a watch youwill cent a week), and by telling the Start right away, the sooner you starthe sooner you have the watch tloking in your pocket and telling you at a glancethe hour, the minute, and the second of
the day. Send your order to THE MICHIGAN FARMER, Detroit, Mich.


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## Save $50{ }^{5}{ }^{5} 300$

absolutely guarantee to save you $\$ 50$ to

 Get My Catalog and Low Direct Prices


It pays to bale your hay in DEDERICK'S STANDARD Baling Presses

P. K. DEDERICK'S SONS,<br>46 Tivoli St., Albany, N. Y.



## No-Rim-Cut Tires 10\% Oversize

## $11 \%$ Less This Year

Rubber has dropped a little. And our factory cost, because of multiplied output, has dropped a little more. Our new factories are completed, and we've equipped them with the latest labor-saving machinery.

Now we have a capacity pretty close to 8,000 motor tires daily.

As a result, No-Rim-Cut tires are costing about 11 per cent less than last year.

## What You Save

You save, by using these newtype tires, all the ruin of rim-cut ting. And that is what wreck 23 per cent of the old-type clinch er tires.
You get extra capacity. No-Rim-Cut tires are 10 per cent larger than the same rated size in clinchers. And that oversize, un-
der average conditions, adds 25 der average conditions, adds 25 per cent to the tire mileage.
And now you save on price- -11 per cent under what these tires cost last year.

## No Extra Price

No standard tire of any type costs less than No-Rim-Cut tires today
Hooked-base tires-tires which rim-cut-now cost the same as these newtype tires which don't
Tires just rated size now cost as much as these oversize tires.
Consider how it pays to insist on these savings when they

# GOOD MEAR 

No-Rim-Cut Tires
With or Without Non-Skid Treads
self. Test the tires which, on countless cars, have shown the lowest cost per mile.
One glance will show that these tires can't rim-cut, that they are over rated size. Find out how this lowers tire bills.

Hundreds of thousands of men who have done that now use Goodyear tires.

Also be fair to us. For 14 years our experts have worked to lessen tire upkeep. And we are still spending $\$ 100,000$ yearly on research and experiment.

Now comes this 11 per cent reduction. Doesn't this record, in your estimation, call for a test of these for a
tires?

Write for the Goodyear Tire Book-14thyear edition. It tells all known ways to economize on tires.

THE GOODYEAR TIRE \& RUBBER COMPANY, AKRON, OHIO
Branches and Agencies in 103 Principal Cities More Service Stations Than Any Other Tire We Make All Kinds of Rubber Tires, Tire Accessories and Repair Outfits Main Canadian Office, Toronto, Ont.-Canadian Factory, Bowmanville, Ont.



[^0]:    A Letter to Wm. Lambert, Custom Wooten Mills, Reed Cily, Mich.
    

[^1]:    BONDS SECURING POSTAL SAVINGS FUNDS
    BONDS YIELDING 4\%-5\% PAYABLE SENT-YEARLY B BACKED BY CERTIFICATES FRON UNITED SIATES TREASURY CERTIFYING THEY PROTECT POSTAL SAVINGS BANK FUNDS AVAIL YOURSELF OF THIS PROIECTION SEND FOR OUR BOOKLET BONDS OF OUR COUNTRY BONDS SENT TO ANY BANK OR EXPRESS COMPANY SUBJECT TO EXAMINATION THE NEW FIRST MATIONAL BANK columbus. ohio.

