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

DETROIT, MICH., SATURDAY, OCT. 25, 1913.

### HEN we hear that there is a ten thousand acre farm in Michigan that has been reclaimed by the dike system it arouses our interest. On visiting this farm, the writer was amazed at the methods that are used to change working shops are capable of making all farming business. He mixes his own swampy land into a farm that is highly productive and very profitable. Mr. Jacob DeGeuss, manager of the Prairie Farm, Saginaw county, is the type of a farmer who understands big business and is capable of managing a gigantic proposition. The work on this farm requires the assistance of 260 men; a small town has sprung up and this little village is inhabited only by the employes of the Prairie Farm. Ten thousand acres of land have been reclaimed by a system of and the rest of the 4,500 acres under cultivation has been planted to general crops.

The reclaimed lands were marshy, and outside the dikes the farmers are having considerable trouble with the water. Two years ago it was up in the buildings on the outside of the dikes and while other farmers were having their crops ruined, the Prairie Farm employes were plowing on the reclaimed land. The dikes have been constructed with two large steam plows and the water from the land is pumped into a series of ditches and canals, the total length of which is seventyfive miles.

We were driven across this farm and the miles of streams seemed to carry us a foreign country where all was strange and unfamiliar. The methods used on this Prairie Farm in Michigan are very similar to the dike system that is used in Holland. Men are given the privilege of hunting muskrats in these streams and serve the double purpose of catching the rats that might undermine the dikes and act as inspectors to guard against any breaks in the earth that would allow the water to rush in on the cultivated land.

The broad expanse of smooth land seems foreign to the farmer in Michgan and the little rivers flowing around the fields mark them off like islands that have been made read of the dike farms of Holland and the wonderful canal and ditch systems built visitor of pictures of the peasants on the impression that most of the farmers

many fine dike farms in Holland that have thousands of acres of well cultivated and productive land.

Mr. DeGeuss has had trouble in hiring good men for the farm work but told a story of a foreigner who came from Chicago to work and it illustrates why some men will congregate in the city but refuse to work on the farm. The poor workman stood up to his ankles in the mud and as he gazed blankly into the distance remarked. "Chicago is all right, America no good." The farm employs a varied class of labor and the blacksmith and wood-

# Michigan Dike Farm.

features of this farming business and without depleting the fertility. every department of the farm work is needed to run the seventy-five horsepow- features of the business. 000 gallons per minute.

dikes and this year they are growing well expended in the proper preparation last of the growing period so that it may 1,000 acres of mint, 650 acres of beets, of the soil and it is easy to show the re- be cut when the greatest amount of oil

ordinary repairs without the expense of fertilizers and studies the soil to find out calling in other assistance. The hospital, the best combination to produce a maxgeneral store and fire department are imum yield on every acre of the land

All of the hay raised on this farm is organized to perform its work with the sold for packing purposes and the disgreatest efficiency. Engineering skill is tilling of peppermint oil is one of the big farm. The question of controlling weeds er engines in the pump house and the and forty pounds of the mint oil have centrifugal pumps have a capacity of 40,- been distilled in ten hours when it was worth \$2.40 per pound. A careful watch Mr. DeGeuss believes that money is is kept over the mint fields during the

in its machinery and well built in every particular. There are ten miles of fine roads on the reclaimed land and 1,660 implements are needed to farm the extensive acreage under cultivation, and this is increasing at the rate of 500 to 600 acres every year.

Mr. DeGeuss hires Slavs and Bohemians to care for the sugar beets and they contract to weed four inches on each side of the row and the other twelve inches is cared for by the regular employes of the Nine hundred in the beet fields has been a serious proposition on this Prairie Farm but it was solved by planting barley along with the heets. The barley would start first and the beets could be cultivated before they were up and the weed crop was thus delayed in its start and was much easier to control. Mr. DeGeuss believes in alfalfa and buys the finest seed on the market regardless of the price. He does not inoculate and believes that inoculation decreases the germinating power of

Seventeen hundred acres of land have been limed with the refuse from sugar factories and the stock furnished sufficient manure for one hundred and sixty acres. Sugar beets have been running thirteen to sixteen tons per acre with a net profit of \$5.00 per ton. There are one-hundred and fifty Herefords on the place; the cows raise their own calves and Mr. DeGeuss is selling the steers and retaining the heifers. A fine herd of registered Holsteins is supplying milk for the farm village and the employes receive their milk for six cents per quart.

The company owning this farm made no mistake when they selected Jacob De-Geuss to be their farm manager. He is a type of the business farmer who knows scientific agriculture and has the capacity of handling a great mass of detail. He responsible for the organizing and equipping of the employes' baseball team and he encourages the men to be upright in their work and saving in their habits. He is always in close touch with his men and has hobbies just like the rest of He loves horse racing first and them. baseball second, and is a worthy example of the big business farmer who can mix work and pleasure without allowing the work to suffer.

Mr. DeGeuss made the following statement regarding the outlook for agriculture in this country: "If we cannot raise twice as much on our land as we have the big estates in Europe. Mr. DeGeuss in perfect condition for the hand la-structed a spur track to this farm and in the past, some day people will starve said that the people in this country had borers."

the farm is to pay one dollar over the in this country." He is managing the Mr. DeGeuss is a student of men and regular charges for every load that goes Prairie Farm with due consideration for

these big enterprises where they are studying the problems of the soil and striving to place agriculture on a business basis the same as the corporati any other industry. It will be an inspiration to the man who neglects many opportunities on his own farm and it shows the possibilities of doing big things with the soil when capital, brains, and energy are directed toward its cultivation. Such an object lesson is also of peculiar interest on account of Michigan's large area of undeveloped swamp



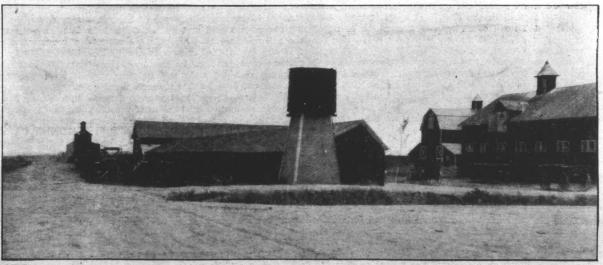
General Store and Post Office Patronized Only by Employes of Prairie Farm.

across the broad fields remind the \$1,300, which is well worth the extra bring the maximum of profit. work that was required to place the soil

in Holland were market gardeners and methods. He tried using nitrate of soda out until the cost is cancelled. The ele- the conservation of fertility and the incultivated but a few acres of land, but on oats that had been frosted, the oats vator on this farm was largely construct- crease of production. It is well worth

to order. The scene recalls what we have sults in the sugar beet business. He is in the cells. A cold rain will cause the "The workmen will weed our sugar quantity to diminish and ragweed, smartbeets and do hand labor for \$2 less per weed, or fireweed will color and flavor the centuries ago in China. The soil is acre than they will on a farm where the oil. The crop is studied and every drop and black and the large num- soil has not been previously well worked. of mint oil is produced with the minimum ber of men plodding back and forth On 650 acres of beets that is a saving of of expense which also means that it will

The Grand Trunk Railroad has conthis is not entirely true and there are colored up and it saved money for his ed by the regular men and it is modern the time of every farmer to visit one of



The Railroad Run a Spur Track to the Elevator to Handle the Products of this 10,000 Acre Farm.

R. G. KIRBY.

## RECENT ROAD CONGRESS.

So voluminous was the material presented at the six-day session of the annual meeting of the American Road Congress that it is impossible to present it here without excluding other matters of importance and since much of it concerned only the professional road builder, we have for the benefit of the Michigan Farmer readers, gathered such items as would be helpful and interesting to the average citizen and taxpayer.

Encouragement should be given to the nure and they are not bettering it. development of a school of road engineers who are not only able to build the more expensive types of roads but also a school of men who can use funds economically in the construction of common roads.

The sequence to be followed in road improvement, as voiced by prominent disappears. road builders at the convention is, first, the improvement of ordinary roads, next the roads of second class, then the trunk lines, and finally the national and international roads. It is by following this programme that the masses will be educated to the significance of improved roads, which will make it easier to secure support for the more costly highways when the time for their construction has arrived.

The maintenance of the road should be provided for before the road is built. If it is impossible to have available funds for keeping the road in repair, then the road should not be constructed.

Roads should not be permitted to get out of order. As soon as a defect of any kind shows it should be immediately at-

done and found to be very unsatisfactory. It wastes money and is certain to disappoint taxpayers and patrons of the

to carry their maximum load during the potash, is the hardest kind to save. It or something of that sort, you have lost most trying weather conditions. 'If not is the liquid excrement. There are a some of the soluble plant food in the so constructed, heavy loads will break good many stockmen now who have cis- process of composting, which you would the surface and make the expense of maintenance higher.

present use, but the probable future as

In issuing bonds to raise money for construction, the greatest paid up before the road is worn out.

It is observed by road officials that too large an amount of money is being expended for temporary covering of wooden The general impression is that bridges. bridges and culverts should be built of stone or concrete, or other permanent materials, thus avoiding further expense for their maintenance.

experience has taught us that proper grading and drainage and the use of a road drag at the right season of the year, will make a very serviceable kind of road of this class. Some states have adopted a compulsory drag law which provides funds and men to look after this Ilinois and Iowa were mentioned as states having such statutory measures.

The unsurfaced roads should be worked when wet, this puddles the surface, enabling the road to shed water; it also keeps the soil in place.

The use of the wide tire wagon was recommended. Narrow tired wagons are known to be as hard, or even harder on many types of roads than are automo-Wagons constructed so that hind biles. wheels run outside of front wheels are be desired by the road specially builders

The New York Assembly has enacted a law which gives the state supervision of the construction of all roads within the The counties pay all the way from nine to 35 per cent of the construction hear the expression, population. The money raised by a coundition the soil, and the more plant food it of stable manure is to haul it, if possible, mark on every feature, we like to be restate engineers.

A new system of road maintenance is one grain. being taken up in some states. In New the system used by the railroads, section gangs are employed and provided soil good are sowing less than this. One time we haven't any place to put the Farmer has always been a farm paper with proper equipment, such as steam year ago our wheat made some over 32 stable manure. The land is all in crops. of quality. rollers, oil trucks, etc., so that the repairs may be made at the least possible pounds. This year we threshed 20 bushels expense. Our common roads are being per acre from 141/2 pounds and our preput to greater use at the present time cipitation from sowing to harvest was. The cows and sheep won't feed where Almost invariably the cheapest article is than they have in years gone by. Thirty only 4.38 inches. One 14-acre field sloped this fresh manure is spread, and we gen- the most expensive, because of its short

### MANURE LOSSES

A heap of barnyard manure has an odd way of refusing to stay put. The farmer who has barn manure in a big pile against the barn is more likely throwing it away than saving it. A hundred revolutions are going on in that pile of ma-

Some of the nitrogen is becoming ammonia and evaporating. Some becomes nitrates which dissolve when the rain comes and sink into the ground. after a more complex and scientific fight about it, some becomes nitrogen gas and

Now nitrogen, we are told, is worth about eight cents a pound. A horse, the learned statistician informs us, produces at that rate, \$10.40 worth per year. It's worth saving

together they "leak" and lose value much ing the summer time, until it is well rotmore rapidly than when stored separate- ted, you will have a much smaller quan-The more compact it is, the less loss. It is far better, when possible, to apply the pile of fresh stable manure was origithe manure direct to the fields instead of nally. In the decomposition of the compiling it up for some future time with the resultant deterioration.

Ohio Experiment Station, using barnyard manure, eight tons to the acre, on a ro- been destroyed by the fermentation of tation of corn, oats, wheat, clover and Much temporary road work has been return to the value of \$4.69 per ton. An composted. On the other hand, in the average for the whole time in the tests decomposition of this manure fermentawhere rotation was practiced was \$2.97 tion has driven off or allowed to pass per ton of manure.

The most valuable manure, the ma-Main roads should be constructed so as nure that contains the most nitrogen and leach, if it is an excessive rainy season terns in their barns. It is a good method not lose if you had applied the manure A careful study should be made of a but in applying the liquid, there is the a larger per cent of available plant food. road before laying it out. Not only its same danger of making the ground hard If you want to raise market garden crops, should be considered, since it is future not the fault of the manure, or the fer- you can get better results with comdemands that the road is being prepared tilizers. It is because humus has not posted manure. On the other hand, the been plowed under.

should be exercised to have these bonds annually throw away in the form of ma- as it does plant food, and confequently nure is appalling. And what makes that it would be more profitable to apply the preventable. Compared to European meth- ly for ordinary crops. In applying the ods of manure conservation, it seems that manure fresh you save every bit of the we are still in the infant class.

19,500,000 horses and mules, 51,600,000 pense of composting it. If the manure is hold on him. The time is soon coming sheep, 47,000,000 hogs, and 61,000,000 cat-There are about 2.100,000 miles of un-phosphoric acid and potash, these anisurfaced roads in the United States. Wide mals produce in one year, \$2,225,700,000 worth of fertilizer.

lost by careless handling. about \$750,000,000.

waste. Therefore, the first thing the Am- have found out that they don't get as always would be. I considered that the erican farmer should do, it seems, is to good results with a given amount of ma- remark was very ungenerous as the boy make an effort to stop the waste of this nure after it has been composted as they was short and the horse was tall. valuable fertilizing element,

L. L. DEBRA. California.

### LIGHT SEEDING AND ITS RESULTS IN THE WEST.

Thought perhaps some of our farm methods would be of interest to Michigan farmer readers.

One thing that seems strange to a perall grain. All crops stool here much more sive rainy season and have this pile of from the lips of a neighbor woman on his I have often wondered whether or not a ble phosphoric acid and potash down into battled with the world for a quarter of light seeding would not be better for the the soil underneath. Again, we can't af- a century. She greeted him with, "God eastern states. When I was farming in ford the labor. Labor now is a very im- bless ye-ye were a gude boy." This un-Michigan it was not at all uncommon to portant consideration in the business of studied expression coming from this uncost of state roads. The amount of a is rich, it will stand more seed." Now the necessary to handle this manure three or pression upon him. When old age is bearcounty's appropriation depends upon its very reverse is true here, the better con- four times. The very best way to dispose ing down upon us, and time has left its ty is used under the supervision of the contains, the less seed we sow, for this direct from the stable and spread it on membered as good boys.

bushels per acre from a seeding of 191/2

feed this increased number of non-agri- half what the upper half of the field did. cultural classes, requires the transporta- We think that, could we have sown eight tion of exceedingly large amounts of farm or 10 pounds on the low ground our yield would have been 28 or 30 bushels per acre on the whole field. We sowed 15 pounds extremely dry summer we would have had good crop; however, we only had 19 bushels per acre.

> One grain of corn will often make two to four stalks, this depending some on the season and cultivation.

> I know these light seedings will seem incredible to a person who has not studied our western conditions.

Colorado. FRED. L. PALMER.

### And, SOIL AND FERTILIZER QUESTIONS.

Composted vs. Fresh Stable Manure.

What is the difference between fresh barn manure or well rotted manure, and which will produce the most weeds when applied as a fertilizer?

Shiawassee Co. T. N. V.

If you take an even quantity of fresh stable manure and pile it in a yard and When liquid and solid manures are kept then fork it over two or three times durtity, so far as bulk is concerned, than post heap much of the volume is lost. The coarse organic matter, the straw Soil, method of cultivation, and kind of used for bedding and that sort of thing, crops, all regulate the net return one gets rots and decays and its volume is quite from a ton of barnyard manure. The perceptibly lessened. Many of the weed perceptibly lessened. Many of the weed seed which were in the bedding have the manure so that you will have manure timothy, succeeded in getting an increase that contains less foul stuff if it was away some of the ammonia or nitrogen. Again, if the pile has been allowed to of saving manure where correctly done fresh. The composted manure contains with commercial fertilizers. This is if you want to get immediate effects, fresh manure contains more bulk and Despite warnings from our colleges and consequently more organic matter, most our experiment stations, the money we of our soil needs organic matter as much plant food, you save all of the organic In this country there are approximately matter and you save the labor and ex-Figuring usual values on nitrogen, the summer time so that it will rot, it may as well get ready for that time. costs considerable money in the way of That is have lost some available plant food.

crease the humus or vegetable matter in the contrary. to allow any plant food to go to waste. longer than he was compelled to. We can't afford to let this manure fergo off voltatilized into the air. Again, we ed to me that one of the sweetest senson from the east is our light seeding of can't afford to run the risk of an exces- tences that ever fell on his ears came than in the east, and since farming here manure leach and take some of the solu- return to his native place, after having "that piece of ground farming, and we can't afford the labor lettered Scotchwoman made a lasting imricher soil will force more stools from the ground. Then there is no loss either in plant food or labor. It is done at a Thirty pounds of wheat per acre and minimum expense. I realize that some-If you put it on the pastures early in the for that season.

years ago, two out of every three per- down on a flat and the wheat on this flat erally need all the pasture grass that we life or because it so often proves unsatsons were farmers, whereas, now only stooled so much that there was not mois- can get at that time of the year. The isfactory.

SUGGESTIONS GATHERED AT THE one out of every three is a farmer. To ture to mature it and only yielded one- other fields, of course, are covered with growing crops and you can't spread the manure, so the only way for us to do is to pile it up in a big pile and then haul it out later on when some of the crops have been removed, but we don't fork it of oats per acre this year and but for the over, we don't go to this expense. Just as soon as we can get the fields clean of crops and get the time we haul it out and from that time on until the next summer we calculate to draw it directly to the fields and spread it. Again, sometimes it happens that we can't do this if the snow is very deep or if the fields are very soft. Then we have to put it in a pile again in some convenient place, preferably out upon the field where the manure is going to be spread later on, pile it up in a big pile and leave it until the condition of the field is such that one can go on with a manure spreader and spread the stable manure. This, of course, necessitates handling the manure over once more, which is expensive, but which cannot be avoided. Colon C. Lillie.

### WHY BOYS LEAVE THE FARM.

Boys who are playmates will reveal to each other their plans for the future without reserve. One boy farmer, another a mechanic, another a doctor, and so on. These plans are liable to be changed often before they get to real work for themselves. Boys readily learn that they will soon be men, and this knowledge sometimes causes them to make their parents much trouble. It gives If home them an independent feeling. conditions are not agreeable they look forward to the time when change them or get away from them.

I saw this independent feeling illustrated not long ago in a manner that pleased me. I was working beside a threshing machine, and a little boy was standing near revealing to me his plans for the future in a confidential sort of way. He said that in so many years (he had the years counted up) he would be thirteen years old, then he was going with a threshing machine to learn to be a thresher. "Well," said I, "by that time you will be just about large enough to carry water for the boys to drink."

"Huh," said he, with a contemptuous expression on his face, "I'll never carry water for them fellows.

This independent spirit frequently gets hold of a boy when he is quite young and gets hold of him in a way that is hard for his parents to control. Study them. It is not undignified for a father to knuckle fact still more distressing is that it is manure fresh on most lands, and certain- down to a son when he thinks he has been too hasty or too exacting. Such action is likely to give a boy the impression that you mean to be fair with him, and when he gets that impression you have a strong forked over two or three times during when you cannot force obedience, and you

I remember a circumstance which came labor and you have lost all this, the under my observation when I was a boy. handling of the manure, and besides you One of my playmates was trying to mount And we are told that one-third of this have lost some organic matter, and you a horse, and his father was looking at He was having much It used to be quite popular to compost mounting and the father finally remark-The first law of economy is to stop manure before it was used, but farmers ed that the boy was always behind and do if they applied it fresh, taking every- remark was made before the boys' plaything into consideration. The fresh ma- mates. The boy lived to show the world nure, containing more or less bedding is that he was neither slow nor dull, notjust what is wanted in the soil to in- withstanding his father's judgment to the soil. Then, nowdays we don't want that boy stayed on his father's farm no

Boys like to be known by their neighment in the pile and have the ammonia bors as good boys. An acquaintance stat-

Branch Co. O. A. VANDERBILT.

It is scarcely necessary to refer to the York, the plan followed is something like one bushel of oats is the extreme max!- times it is impossible to do this, in other importance of quality in addressing the mum limit, and the farmers who fit the words, it is not practical. In the summer readers of this paper, for the Michigan

> Still, it is well to remember, in buying season you destroy some of the pasture merchandise for the home or farm, price is not the only thing to be considered.

### LILLIE FARMSTEAD NOTES.

We finished sowing the wheat, 75 acres, on the very last day of September. We were delayed a day or two, owing to the fact that the traction engine broke down and we had to give the last harrowing with horses before drilling. This is a few days later than I like to sow wheat, yet I have had good wheat that was not sown until in October. It all depends upon the season. The warm weather and plenty of moisture since sowing is bringing the wheat on rapidly and it looks In some of the fields that were sown before any rain came, that is, before the drought was broken, the wheat came on nicely after the rain and now presents a magnificent growth. Years ago, with a growth as large as these two fields have at this time of the year, if the weather continued warm the farmers would be afraid that it would get two that this wheat is all the better for the growth that is already made, and I wish my wheat was as far advanced as that. However, the prospects are that it will get a good growth. We have had no frosts as yet. Tomato vines haven't been touched with the frost and it doesn't seem possible that we can have such a sudden change of weather that it will stop the growth of wheat immediately. The prospect for a good growth of wheat is more encouraging than it has been for the last two years. Both last fall and the previous fall wheat did not do well. It was too wet and cold. This year things led down, with about a half an inch of are more normal. The ground is not wet Seemingly we have had splendid rains and plenty of them since the 15th of September, yet the ground is not soak-

September have started the new seeding a barrel and a half to cover the two silos. which lay dormant all summer. This ap- You have got to feed the cows salt anyplies both to the red clover seeding in way, and when you are opening up these looks nicely. The only question is wheth- er on. er it will get growth enough so that it will stand the winter should we happen to have a severe winter. It is not as large as I would like to see it, but it is not dead, and there is hope left yet that good portion of the land which we calcuwe will not lose our seeding. On the late to put into crops next spring. wheat stubble we mixed a considerable quantity of alfalfa seed with the red clover seed. There seems to be almost as much alfalfa as there is red clover. It is a much better stand of alfalfa than ever before, although I have been mixing the alfalfa seed with the red clover, and I am of the opinion that this comes from more harm is done by fall plowing than the fact that the clover made a poor there is good accomplished. start. Always before the clover came up True, much good is always done in readily in the spring and made a growth aerating the soil and in the killing off of and might have done so. This year the many instances the bad effects due to the clover did not make this growth and the alfalfa had a good fair chance. It is a leaching of plant foods from light soils little slower to start than red clover and are much greater than are consequently red clover gets the advan- effects. tage of it. However, I did mix in more alfalfa seed this spring than ever before.

Filling Silos. One of the annual big jobs on Lillie Farmstead is completed, and that is fill-Two of these silos ing the three silos. will hold, when full, 200 tons each and hold about 100 tons. This makes in the neighborhood of 500 tons of silage and it is quite a job to fill them all. It costs a lot of money, at any rate. This year I purchased a new ensilage cutter of my own, having power to run it, so that the real expense of filling the silos is much less this year than formerly, because I ter and power. We had splendid weather A few days the weather was very been left unplowed. hot and it made the men sweat and the was in fine condition, quite a contrast to foods which are already there. last year. and two years ago. Then we were in the mud, and the latter portion of the corn had to be cut by hand as we couldn't get the corn binder to work. This year nothing of this sort occurred. The for soliciting. No experience necessary. binders worked perfectly and the ground The work is dignified, healthful and was in splendid condition. We had a instructive. In writing give references heavy shower on Friday night but we and also state whether you have a horse had the corn all cut and finished up Sat- and buggy of your own. Address Box J. urday noon. The ground was a little wet F., care Michigan Farmer, Detroit, Mich. and sloppy Saturday to finish but we were so near through that we did not notice the little mud.

have stated before, a ten-acre field of lima beans made a tremendous growth of vines but did not fill well, neither did they pod very well, and even where they did they did not fill, and there was not enough beans in them to pay for hauling them to the canning factory and getting them threshed, consequently I put them all into the silo. I had two teams all the time and three teams a portion of the time hauling beans, and four or five teams hauling corn. We would back a load of beans up next to the ensilage cutter and fork them in on top of the corn. The ensilage cutter had capacity enough so it could take a good stream of corn, one bundle right after another without cutting the bands and also a good layer of beans on top of the corn. In this way we got a splendid mixture. The beans were distributed evenly through the corn. And with this ten acres of lima beans and about four acres of soy beans, I had a sufficient quantity of beans to mix in with large a growth, but I am of the opinion the silage in all three silos. I am of the opinion that I have got a splendid lot of silage this year. The corn wasn't as heavy as it ought to have been; it was thick enough but it didn't grow tall enough, owing to the drought. If I hadn't had the beans this year to mix in with the corn I wouldn't have had anywhere near enough to fill the silos. As it is, we only lacked a little in one of the silos of getting all three of them full.

A new idea for the final covering of the silo has just made its appearance in the agricultural press, and that is to cover the silo after it is settled and well trampcommon salt. As soon as I saw this I took to the idea at once. Joe Wing says that practically none of the corn was spoiled. It appealed to me so strongly ed at all, just in nice condition to work. that we have covered our two silos, which These splendid rains since the 15th of we are laying by, with salt, It took about the wheat last spring and also to the silos you need not feed them any extra alfalfa which was sown alone and with salt. If there is too much salt on top it nurse crops. It is all coming on now and can be laid back a little bit and fed lat-

Today, October 13, we have started the engine to do some fall plowing. weather permitting, I propose to plow a

### SOME DISADVANTAGES OF FALL PLOWING.

The time for fall plowing is at hand but the farmer should not be in too great haste to plow up his fields. Often much

which seemed to crowd out the alfalfa many of the injurious insect pests, but in washing of the plowed lands and the

Hillsides where the soil is light or washy should never be fall plowed, nor should other fields where the soil is of such a nature as to allow the plant foods to leach. On the flat lands where the soil is of a heavy clay or loam type and where there is no danger of washing, fall the smaller one for summer feeding will plowing will make the ground much lighter and much easier to till in the spring when the "rush" season of getting in the early crops is at hand. Here it is advisable.

On slopes and hillsides, however, the soil may wash and much of the plant food in the surface soil will be lost. Not only this, but if the soil is of a sandy did not have to pay for the ensilage cut- nature the effect will be just the reverse of lightening it and it will be in much for this work, and are very thankful for poorer physical condition than if it had

On lands of the lighter or washy types horses, too, especially those that were it is well to put in cover crops to hold drawing the corn harvester. But the land

Indiana. J. R. CAVANAGH.

### WANTED.

At once, a few men who are hustlers,

The ranges are not carrying many wethers or yearlings, and many ewes are Succotash Ensilage.

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



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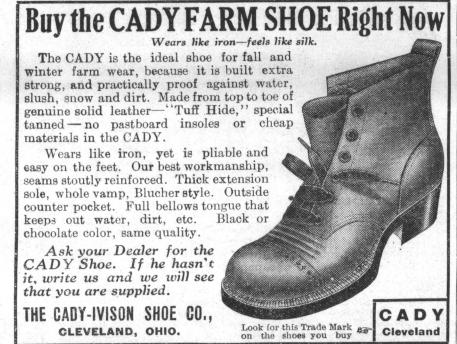
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# Practical Science.

THE CONSERVATION OF PHOSPHOR- form. Therefore, to keep his soil up to IC ACID AND POTASH.

BY FLOYD W. ROBISON.

ment and consists largely of the undigested residues of food, together with certain Phosphoric Acid and Nitrogen Exist Together in Plants.

essentially vital portions of the feedcontent. The cellular structure consists When you grasp it in your in an essential quantity of phosphorus hand, it is as easily possible and while the protein or albumin is distinguished or characterized by the nitroto talk a hundred or a thou- gen which it contains, the nucleo-prosand miles away as to the telds, or the proteids intimately associated with the life reproducti an essential constituent phosphorus as well. In food products, therefore, nitro-gen, phosphorus and sometimes sulphur are very closely related in the same compound. We might therefore expect that approximately the following amounts per the liquid excrement of animals, which 1,000 pounds: contains the highest content of nitrogen, care of the telephone needs would also contain the largest content of phosphorus. This, however, is not so. For we find the solid excrement of animals containing larger percentages of As these needs grow, and as the number of telephone phosphorus. Hence it must readily be seen that to carefully conserve the ingested nitrogen and phosphorus, it is esusers increases, the system sential that both the liquid excrement and the solid excrement be carefully conservthe Bell System must always the administrative agents of the soil provide a service adequate to which are most available, are taken up the demands of the people. by that crop, consequently an analysis of the demands of the people. by that crop, consequently an analysis of the demands of the people. by that crop, consequently an analysis of represent those soil constituents which were most available in that soil. Consequently, we see that each crop removes from the soil not only so much nitrogen, phosphoric acid and potash, but the most available and expensive plant food constituents in that soil because they are so eadily available.

The Effect of Passing Through the

Animal.

When the food is consumed by the animal, it passes through a certain set of to the field. changes which in part restore it to nearly its original condition of availability. That portion of the food which is digested is returned to the soil in almost as satisfactory a condition as it was in when removed from the soil by the plant, but the undigested portions, however, are not nearly so available as they were at the time they were extracted from the soil by the plant. The medifications which they have undergone in passing through the alimentary canal of the animal have considerable effect in promoting the decomposition which they must undergo before they can again be taken up by the plants. If to this valuable treatment within the animal system is appended the right kind of subsequent treatment in the manure pile, then the most is made of this undigested portion without waste.

Phosphoric Acid. Removed by Crops. According to some of our best authorities the various farm crops remove from the soil on the average something like the following amount of phosphoric acid

 Corn stover
 3.8 lbs.

 I'mothy hay
 3.3 lbs.

 lover
 5.5 lbs.

 Alfalfa
 6.1 lbs.

If now these various crops are sold off of rolled oats. before, was in a very readily available per cent protein.

its optimum efficiency he should restore to that soil at least 7.1 pounds of phosphoric acid for every 1,000 pounds of corn The liquid excrement of animals con- removed. Now there are various ways tains about two-thirds of the total nitro- of accomplishing this. In the first place gen in the food consumed. As a matter the farmer may in selling his corn turn of fact, in the mature animal neither about and buy wheat bran. In so doing, gaining nor losing weight the nitrogen for every 1,000 pounds of wheat bran found in the urine is an exact or almost that he buys he is purchasing, as we see exact, complement of the nitrogen con- from the table given above, 26.9 pounds of sumed in the feed. The one-third nitro- phosphoric acid. In order therefore, to gen not found in the liquid excrement supply the amount of phosphoric acid remay be recovered from the solid excre- moved in the 1,000 pounds of corn it would be necessary to feed upon the farm something like 200 pounds of wheat products which are the results of the di- bran. And similarly in the case of cotgestion in the body of the food consumed. tonseed meal which likewise is high in its content of phosphoric acid. If feeding is not practiced then the only other alter-Most of the phosphorus which is found native is for the farmer to either purin foodstuffs exists in a more or less chase natural manure, which is rarely or table, and yet extends over fixed combination with the nitrogen. The possible or else to secure commercial fertilizers containing at least as much phosstuffs is characterized by its phosphorus phoric acid as he has removed from his soil by the crops sold.

Potash Removed by Crops.

In a similar way regarding potash. While the urine contains most of the nitrogen and the feces, or solid excrement, most of the phosphoric acid, we ted with the life reproduction, contain as find again that the liquid excrement contains the greatest quantity of potash. This, of course, is because of the exceedingly ready solubility of the potash salts. Growing crops remove potash in

orn 5.7	lbs.
Vneat 8.7	lbs.
Dats 4.8	lbs.
Barley 4.8	lbs.
vneat bran	lbs.
Inseed meal	lbs.
ottonseed meal	lbs.
orn stover10.9	lbs.
imothy hay14.2	lbs.
lover	lbs.
lfalfa 17.9	lbs.
Dat straw17.7	lbs.
orn silage 3.7	lbs.
Tangels 3.8	lbs.
. [1] 20 [1] 1 [1	

To Build up the Soil.

Now a return to the field in barnyard manure of the equivalent of the feed removed adds nothing essentially to the soil but does encourage the production within the soil of more available plant food material. If the soil is deficient in productive power it can only be built up by the use of either commercial fertilizers in addition to natural manures, or by the purchase of barnyard manure, unless as is done on many farms, a great deal of feed is brought onto the farm and fed to stock upon the farm, thereby of course actually increasing the nutrients returned

### LABORATORY REPORT.

Feed Definitions.

The Association of Feed Control officials of the United States have formulated definitions for some of the more common feed stuffs that come as byproducts in the manufacture of other articles. Some of these are:

Corn germ meal is a product in the manufacture of starch, glucose and oth-er corn products and is the germ layer from which a part of the corn oil has been extracted. Linseed meal is the ground residue after extraction of part of the oil from ground flaxseed.

Meat scrap and meat meal are the ground residue from animal tissue exclusive of hoof and bone. If they contain any considerable amount of bone they must be designated meat and bone scrap, or bone meal. If they bear a name descriptive of their kind, composition or correspond thereto.

Oat groats are the kernels of the oat berry with the hulls removed.

Oat hulls are the outer shaffy coverings of the oat grain.

Red dog is a low grade of wheat flour containing the finer particles of bran.

Oat shorts are the covering of the oat grain lying immediately inside the hull, being a fuzzy material carrying with it cansiderable portion of the fine floury part of the groat obtained in the milling

of the farm the farmer must remember. Prime cottonseed meal must be finely that for every 1,000 pounds of corn which ground, not necessarily bolted, of sweet he disposes of he is selling 7.1 pounds of odor, reasonably bright in color, yellow, phosphoric acid and phosphoric acid at not brown or reddish, free from excess the same time which, as we have stated of lime, and must contain at least 38.6

## Live Stock.

NANT ANIMALS.

Successful breeding operations depend ering is likely to do harm.

work, especially as pregnancy advances, as the most difficult cases of parturition occur under this circumstance. It is essentially necessary that they should be improper feeding and management. exercised regularly; slow work may be New York. W. MILTON KE given up to the seventh, eighth or ninth month, when more care must be observed, but even the exercise should be given moderately up to the time of par-

ed, but even the exercise should be given moderately up to the time of parturition. Under no circumstances should a mare carrying a foal be compelled to pull heavy loads or allowed to run, jump or travel rapidly over yough, broken ground. It is always better to exercise mares in harness rather than in saddle, as they can be held in better control. It is found inconvenient to exercise the mare by drying, allow her liberty in a good yard or paddock, where she may go out and in as she pleases. In general as seriously nearly everywhere, and the lamb fatening young should have plenty of outdoor exercise.

The feeding of pregnant animals is a subject for careful consideration, especially in such cases where a certain amount of labor has to be performed, or where an animal is producing a heavy flow of milk. There is an increase of appetite and a tendency to fatten during the second half of pregnancy. This should be exounded against, as it is liable to expect the guarded against, as it is liable to expect the guarded against, as it is liable to more there result, such as parturient fewer, etc. The food should be of the best quality, and should be castly digestible, may be plosphates and lime salts should be guarded against, as it is liable to make the provider of a kind that will cause constipation. All fermentable, damp, musty or mould have plenty of these phosphates and single should be the supplied if the food is deficient in the majorish the second half of pregnancy. This should have plenty of these phosphates and lime salts should be assisted the provider of contains the necessary salts for the event of a kind that will cause constipation. Salt assists in the passage of the blood through the membranes. Year for the provider of the blood through the membranes will be approached as a serious providers and single states of the supplied if the food is deficient in the decision of a kind that will exceed the provider of the

For cows the standing platform should have a very slight incline, just enough for the drainage of urine, as standing on a very inclined platform might throw the weight of the foetus backward so as to cause abortion. Cleanliness here should always be attended to, and under no consideration must cows in this condition be

CARE AND MANAGEMENT OF PREG- in the mother, but in the foetus. Men in charge of cows at this time must treat them kindly and handle them with judgment, as rough treatment is likely to in a large measure upon the care and produce evil results. In giving medicine management of the females during that and stimulating remedies care must be period in which they are carrying their taken, as the life of the foetus may be-young. In addition to the general rules come imperiled. This applies especially of sanitation and housing of pregnant in the cases where the animals are alanimals there are particular precautions lowed to become constipated, and it is that should be observed so that safety necessary to give them a strong purgaand success may be assured, and as the tive; careful feeding will be all that is time of birth approaches they should be necessary to keep the bowels regulated, more rigidly adhered to. The nearer the and this is best accomplished by feeding breeding females can be kept to their plenty of succulent and laxative food and natural condition the more favorable it providing means for the animal to exerwill be, as too much attention and pamp- cise in the open air. Outdoor air and ering is likely to do harm. exercise exert a stimulating and invigor-Mares should be worked moderately, ating effect upon pregnant animals and but not subjected to severe, fatiguing is far better than allowing them to become off-feed and constipated and depending on epsom salts, raw linseed oil and the like to correct the mistakes of

W. MILTON KELLY.

### LIVE STOCK NEWS.

This is the time for all farmers who want to feed range lambs the coming winter season to secure their quotas, and

um laboratory, where he is making an exhaustive study of cholera and other diseases which have caused such enormous losses for several years to Iowa owners of swine. In a recent interview he said: "We have much hog cholera in Germany, and when there is an outbreak the veterinary authorities quickly establish a strict quarantine. All traffic in the infected farm is watched; not a hog is sold, and in this way the German authorities check the spread of the disease from one farming community to another. In sideration must cows in this condition be crowded, but instead should be given one farming community to another. In comfortable open stalls. As soon as they show signs of approaching parturition they should be removed from the rest of the herd and not allowed with them as long as any vaginal discharge remains. At the same time proper disinfection and cleanliness should be observed. The animal should also be properly groomed, as it will have a beneficial effect, not only



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Prices

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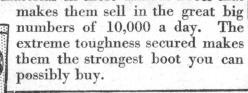


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### Michigan White Cedar FENCE POSTS



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## Good Prices Received by Breeders.

The sixth annual sale of pure-bred registered Holstein-Friesian cattle at the state fair grounds at Detroit by the Michigan Consignment Association, was a decided success. This sale enjoyed the largest attendance of Holstein breeders of any of the six preceding gatherings and the prices received exceeded by all odds those paid at the former sales. One hundred and twenty-six animals sold for

Male—Elzevere King of Butter Kings (71595) 3 yrs. 7 mos., to F. W. Savage, Savage. Howell, Mich.

Females—Becky Netherland Queen (153934) 2 yrs. 11 mos., to Dudley E. Waters, Grand Rapids, Mich., \$350; De Kol Bleske Beryl Wayne (17230) 2 yrs. 7 mos., to J. R. Hicks, St. Johns, Mich., \$285; Dalsy Pontiac De Kol (130394) 2 yrs. 10 mos., to Dudley E. Savage. \$175; Hengerveld Gene P. C. Carbb, \$275; Lady Hengerveld Roberts (121315) 5 yrs. 1 mo., to Beach & Wirt, \$400; Jumbo Queen Second (134037) 3 yrs. 10 mos., to W. I. Osborne, Rockyfeller, II. \$220; Mapleside Counters Calamity (87656) 7 yrs. 11 mos., to Dudley E. Waters, \$390.

Male—Calf, 10 mos., to R. Baker, \$85.

Consigned by W. E. Fellows, Flint, Mich.

Females—Burtondale Buckeye Segis (117045) 1 yr. 1 mo., to Dudley E. Waters, \$280; Burtondale Edna Pietertje (211-631) 6 mos., to Lakewood Farms, \$230; Vale Pontiac Camilla (16849) 2 yrs. 4 mos., to Proper Calamity (87656) 7 yrs. 11 mos., to Dudley E. Waters, \$280; Burtondale Edna Pietertje (211-631) 6 mos., to Lakewood Farms, \$250; Burtondale Grindetta (211622) 9 mos., to Dudley E. Waters, \$250; Burtondale Margaret Nocheller Annual Calification of the Calification of

ess Lillest (166093) 1 yr. 9 mos., to W. I. Osborne \$325; Colantha Countess Viola, (166094) 2 yrs. 1 mo., to Albert L. Smith, Chilson, Mich., \$345; Countess Trildiamond (14568) 3 yrs. 6 mos., to Beach & Wirt, \$245; Hangerveld Johanna Perfection (175571) 1 yr. 8 mos., to Lloyd Lake, North Branch, Mich., \$155; Mermaid Poppzar (163002) 2 yrs. 2 mos., to Robin Carr, Fowlerville, Mich., \$340; Segis Pontiac Boon, 2 mos., to Jones & Lutz, \$140.

## Consigned by J. E. Burroughs, Flint, Mich.

dred and twenty-six animals sold for \$234.90, making an average of \$234 per head. The lowest figure paid was \$55 for a week-old calf and the highest was \$760 for Burtondale Jane Segis, a splendid heifer calf of nearly eight months, raised by W. E. Fellows and bought by D. H. Hoover. The high quality of the offerings contributed in no small degree to the success of the day.

Michigan is to be congratulated upon the fact that a very large per cent of the cattle will remain within her borders to start new herds and strengthen old ones. And because of the anxiety of our dairymen to change from common to purebred stock there is certain to be a larger future for these annual sales.

No small part of the sale's success was due to Cols. Haeger's and Kelly's work with the hammer, and to the efficient management under the direction of H. W. Norton, Jr.

The following list gives the names of all the consignors, animals sold, the approximate ages, the names of buyers and the prices received.

Consigned by J. E. Burroughs, Filnt, Mich.

Females—Atlas Bessie Pauline (194721) 1yr. 1 mo., to Floyd Jones, \$140; Corinne Pauline De Koi (61332) 12 yrs, to W. K. Goror, Centerville, \$85; Plint Atlas Nusile (186347) 1yr. 1 mos., to Mich.; \$230; Flint Atlas Nusile (186347) 1 yr. 2 mos., to Jas. Couzens, \$350; Flint Atlas Lassie (184063) 1 yr. 6 mos., to Jas. Couzens, \$350; Johan Hongs, to Johan Hangerveld Pauline De Koi (19533) 1 yr. 7 mos., to Jas. Couzens, \$350; Johan Hangerveld Pauline De Koi (197633) 1 yr. 7 mos., to Jas. Couzens, \$350; Johan Hangerveld Pauline De Koi (197633) 1 yr. 7 mos., to Jas. Couzens, \$350; Johan Hangerveld Pauline De Koi (197633) 1 yr. 7 mos., to Jas. Couzens, \$350; Johan May Durkje 2d. (192813) 10 mos., to Jas. Couzens, \$350; Johan May Durkje 2d. (192813) 10 mos., to Jas. Couzens, \$350; Johan Nellie Wayne (187825) 1 yr. 1 mos., to Jas. Couzens, \$365; Johan Oosterbaan De Koi (197349) 1 yr. 11 mos., to John A. Rinke, \$150. Males—Johan Judge Hengerveld (194721) 1 yr. 10 mos., to John A. Rinke, \$150. Males—Joh

Consigned by J. W. Worthington, Howell, Mich.

Females—Becky Metta De Kol (198134) to A. R. Eastman, Howell, \$125; Counters Lizzie (205348) to A. R. Eastman, \$140; calf, 9 mos., to Jones & Lutz, Oak Grove, Mich., \$200; calf, 1 yr. to Jas. Couzens. Pontiac, Mich., \$210; calf, 9 mos., to J. H. Austin, Oak Grove, Mich., \$160; calf, 9 mos., to J. H. Austin, Oak Grove, Mich., \$160; calf, 9 mos., to J. H. Austin, Oak Grove, Mich., \$160; calf, 3 mos., to A. R. Eastman, \$180; calf, 4 mos., to A. R. Eastman, \$180; calf, 4 mos., to M. W. Willard, Gd. (116128) calf, 3 mos., to A. R. Eastman, \$180; calf, 4 mos., to M. R. Eastman, \$180; calf, 4 mos., to M. R. Eastman, \$180; calf, 4 mos., to M. R. Eastman, \$180; calf, 4 mos., to L. F. Auten, Little Rock, Ark., \$2205; Idlewild Fearless Mercedes (212194) to F. W. Savage, Belleville, Mich., \$1221) alay City, Mich., \$145; Shadyside Canary yrs., to Lakewood Farms, Battle Creek, Mich., \$240; Rossoline Colantha 2nd (181-673) 8 yrs. and 2 mos., to J. E. Mitchell, Pontiac, Mich., \$205; calf, to A. R. Eastman, \$120; Windymere Juno (174206) 2 yrs. 1 mo., to J. H. Austin, \$265. Consigned by J. Fred Smith, Byron, Mich.

Females—Elzevere Canary Brook De Kol (11 mos., to M. N. Bornber, Howell, Mich., \$125; Elzevere Pearlina (185853) 2 yrs. 1 mo., to Beach & Wirt, Battle Creek, Mich., \$220; calf, to R. Baker, Pittsford, Mich., \$220; calf, or week, to Stay, Vashti Lady (18919) 2 yrs., to Lakewood Farms, \$220; Winnie Jewel of Evergreen Lawn 201013) 1 yr. 6 mos., to W. K. Gore, Centerville, Mich., \$250; Edgeriver Lize Mercedes Colantha (1827) 1 yrs. 2 mos., to C. G. Laura

## Consigned by D. H. Hoover, Temperance, Mich.

### BEST GRAIN TO FEED WITH SILAGE, SOME HAY, CORN STOVER AND STRAW.

What is the most economical grain to buy for milch cows this year, to feed in connection with silage, hay and cornstalks? We will probably feed them the hay and stalks on alternate days, one feed a day. The hay is mostly clover feed a day. and alfalia. Wayne Co.

With plenty of alfalfa hay and good corn silage made from the whole corn, so tar as food nutrients are concerned, one can compound practically a balanced ration, but while the food nutrients are practically balanced it is not a desirable ration in another way. It contains too much bulk for the concentrates. A ration ought to be balanced in two ways, first as to the food nutrients, that is, the carbohydrates and protein, and second, as regards the proportion of bulk and concentrates. A cow won't do her best on an entirely bulky ration, neither will she do her best on an entirely concentrated food. They should both be fed. A good rule is that two-thirds of the food nutrients should be found in the rougnage and one-third of the food nutrients in the concentrates. Now as H. . L. has only a limited amount of hay, and not all of it is alfalfa, his ration would not only be too bulky but it would not balance so far as the food nutrients are concerned. In other words, it will be deficient in protein, and this must guide him in the purchase of a grain to properly balance this ration. What he wants is a concentrate that is richer in protein than clover hay is, because it must balance up the lack of protein in the corn silage. You can't balance this ration with corn meal or ground oats or ground barley because they are not rich enough in protein, but you can balance it with cottonseed meal, gluten feed, dried brewers' grains, etc. Now these are the kind of foods that you want to buy, because they are rich n protein, the very element your ration is deficient in. Of the three kinds of feeding stuffs named, cottonseed meal, gluten feed, and brewers' grains, I would simply take the analysis of these three different kinds of feeding stuffs, get the price that I would have to pay for them, and then I would figure on the cost of a pound of digestible protein, and I would purchase that feeding stuff which would give me a pound of digestible protein for the least money. There is another food that is coming into a little prominence in feeding dairy cows, and that is cull beans. You can probably make a third of your grain ration cull beans, which you can get at a reasonable price. They can be bought at the present time for \$14 or \$15 per ton and they contain over 20 per cent of digestible protein. If you will grind the cull beans and mix 100 lbs. of these with 200 lbs. of cottonseed meal, or 200 lbs. of gluten feed, or 200 lbs. of dried brewers' grains, it will cheapen your ration. The cows probably wouldn't eat it well at first but perhaps you may succeed in getting them to eat the bean meal so that you could mix it half-and-half which would chcapen the ration still farther. If you can it will pay to do it, because half of the grain ration being cull beans will work no detriment to the cows. Some people feed cull beans by cooking them or boiling them and then feeding them after they are boiled. In this way the cows soon learn to eat them and relish them very much.

### TEACHING THE HEIFER.

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



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Physicians say that a man would live to be a hundred years old, if he knew he would never be in want. It is worry about the future that hastens old age and shortens life.

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## DETROIT, OCT 25, 1913.

### CURRENT COMMENT.

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

that of profit, it would be a good thing for these prospective employers of the well man if we had a dry autumn. Investigations made in many places show that shallow wells are an unsafe source of farm water supply. Investigations made by the Bureau of Plant Industry in cooperation with the Minnesota Board of Health showed that of 79 typical farm wells in Minnesota, only 20 were good, while 59 were more or less polluted. In ity but were unable to obtain loans for a similar examination in Indiana, the short periods, while 40 per cent of owners water from only 159 of 411 shallow wells was good, while that from 209 was bad and from 43 of doubtful quality. In 116 out of 177 deep wells examined, the water was of excellent quality.

These comparisons speak for themselves and are the best kind of an argument for the giving of greater care and attention to the farm water supply.

A question now hold.

Michigan and throughout the country is whether or not the placing of cattle and beef upon the free list will have the effect of materially cheapening the price of fat cattle in this country. This, of course, is a question to which only time will reveal the answer, but the present trend of the cattle market is an excellent indication of what the cattle feeders of the country think about it. It will also be noted that whenever and wherever an opinion is expressed by anyone who is in the cattle trade, a prediction of higher rather than lower prices for cattle and cattle products is expressed. This, too, is contrary to the usual attitude of the dealer in any commodity, in whom natural caution is generally reflected by the expression of "bearviews on the future trend of the

In the last analysis the future trend of farmers are forenanded supply and demand. the are of interest. These figures show that for the eight months ending with August, 1913, the exports of beef cattle from this country aggregated only about \$1,000,000, as compared with \$44,000,000 for the same months in 1904. On the other hand, imports of cattle increased from 4,257 in the eight months ending with August, 1904, to 340,105 in the same period of 1913, and their aggregate value from \$181,145 during the eight months given for 1904 to \$5,031,842 for the same period ix 1913 In addition to this increase in the imports of beef cattle, there has get adequate accommodations at present, and not point a generally lack the inclination to join a generally lack the inclination to join a first and permanent lieu upon the combined assets of federal reserve banks.

"7. That the reserve requirements of of weeveral officials, apparently with the consideration of the Owen-Glass bill be modified and reduced for both country banks and banks in reserve cities."

Several of the constituent bodies falled to vote on the propositions submitted on the ground that the members were not sufficiently familiar with the proposition that the members were not the ground that the members were not sufficiently familiar with the proposition. These fine would be-to-down disastes of federal reserve banks.

"7. That the reserve requirements of several officials, apparently with the consideration, has caused as change of attitude on the part of the Owen-Glass bill be modified and re-duced for both country banks and banks in reserve cities."

Several of the Congress dividence of the Owen-Glass bill be modified and re-duced for both country banks and banks in reserve cities."

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"7. That the reserve requirements of several dispense of the Owen-Glass bill be modified and re-duced for both country banks and banks in reserve cities."

Several of the Constituent bodies falled to vote on the proposition that the members were not sufficiently familiar with the proposition. The lating to exports and imports of beef cat-

The Michigan Farmer beef, which for the full fiscal year of 1904 perience proves that by this means they business men. aggregated but \$14,922 as compared with are able to get better terms or chaper inthe value of imports of beef aggregating \$89,204 for the single month of August, 1913, and a total value of imports for

> Of course, the imports may be expected to increase greatly with the removal of the tariff on beef, but it is quite certain that prices will not fall below the world price level. Thus the whole question resolves itself into the simple proposition as to whether there is a world surplus of beef cattle or not. It is apparently the judgment of those who should be best informed on this point that there is not, and while it is likely that the removal of the tariff on cattle and beef may check a further advance in the price of the dothere will be any decrease in market values which will prove a menace to the cattle feeding industry of the United States those who have most carefully studied the kind, even at the present high price of feeders, will afford a safe and profitable market to Michigan and American farmers for their home-grown feeds.

The Extent of Rural made in a previous Indebtedness.

Reference has been comment to an investigation made

by the Department of Agriculture in the autumn of 1912, relative to rural credit conditions in the United States. In an article published in the Bulletin of Social and Economic Intelligence, published by the International Institute of Agriculture, further deductions were made from the statistics gathered in this investigation, heard to remark that unless there is an showing that the total indebtedness carried by the farmers of the United States is not less than \$5,000,000.000. Of this amount 55.9 per cent is in real estate mortgages, 14 per cent in chattel mortgages, 7.8 per cent in loans on cotton as collateral, and the remaining percentage represented by loans on other crops and by various forms of unsecured credit. In From the standpoint of health, if not the matter of unsecured credit, the correspondents furnishing the data from which these figures were compiled were of the opinion that 77 per cent of farm owners and 46 per cent of farm tenants are in a position to give good security or an endorsed note for loans. It was the opinion of the correspondents who reported on this condition, however, that 36 per cent of owners and 37 per cent of tenants were in a position to offer securshort periods, while 40 per cent of owners and 44 per cent of tenants were unable to obtain long term credit on what the correspondents considered ample security.

With regard to interest rates, there was great variation in different sections of the country. From Wisconsin there were reports that farmers were able to borrow money at four to five per cent, and it was found that the savings banks in Massachusetts loaned money to farmers at from Our Beef Industry. ing the interest of five to six per cent. In the mountain many farmers in states interest rates were much higher, running about 9.9 per cent, while in some of the southern states 10 per cent was a common rate, and in some localities as much as one per cent per month was paid. These figures are given to illustrate the point that co-operative credit is needed badly by a very considerable percentage of the farmers of the United States.

Had this investigation been conducted during the stringency of 1907, for which it is generally conceded there was no business cause, or even during the past few months when money has been closely held by banks, enabling private capitalists to advance the interest rates in many localities, this would have been made still more apparent. The great obstacle, however, to the establishing of rural credit organizations in the United States, is the fact that such a large percentage of our should be guaranteed by the United States prices must depend upon the old law of need to borrow money for the satisfactory eral reserve banks and not at the treas-In this connection conduct of their business or have such some recently published statistics com- excellent credit that they are able to piled by the Department of Commerce re- make reasonably satisfactory loans under ally guarantee the federal reserve notes present conditions. These men would very by providing that said notes shall become

who do not at present so badly need their this organization previously made aid would be attracted to and become affiliated with these organizations.

cultural credit in Europe is formulating toward its enactment into law. its report upon its findings, which report will undoubtedly be made to Congress af- A LITTLE PAINT IS A GOOD INVESTter it convenes in regular session this winter. There will yet remain much to be done, not only in the matter of enabling legislation, but also in the promotion of public sentiment before this undoubtedly desirable movement can become well makes! How fresh and new and cheerful established in this country. This time the farm looks. These are the places would, however, be materially hastened strangers stop to look at, and many times mestic product, it seems unlikely that if the farmers' organizations of this and \$20 worth of paint adds \$500 to the value other states, such as the Grange and Farmers' Clubs, would discuss the quessituation, that feeding cattle of the right needs of their own membership along this line. To be a maximum success a plan the establishment of better rural credit must be adapted to the needs and conditions of a majority of those who will Michigan Farmer. be benefited thereby, and an early discussion of the problem throughout the country would aid in the crystalization of sentiment to an extent which would be a

America, met in Detroit last week. This organization includes over 300 Chambers of Commerce, Boards of Trade, Commercial Clubs and Trade Organizations throughout the United States. For the second time since the Currency Bill has been under consideration by Congress, this organization at the recent meeting took official action with regard to that measure. In order that the sentiment of the constituent bodies having a membership in this organization might be secured, this question was submitted to the members for a referendum vote a few weeks ago. This vote was can the veck, and 25 others hurt.

Wreck is not reported.

Mrs. Emmeline Pankhurst, the English militant leader has been detained at Ellis Island, while enroute to this country by Island, while enroute to this vote a few weeks ago. This vote was canvassed at the recent Detroit meeting, showing the result to be 303 for the pending currency bill and 17 against it. Certain recommends were submitted to a referendum vote of the constituent organizations, several of which were endorsed, as follows:

"1. In favor of the increase of the federal reserve board to nine members, the two additional members to be chosen by the original seven members, subject to the approval of the president, the compensation of the governor and vice-governor to be fixed by the board itself.

"2. The creation of the federal reserve council to be elected by the regional reserve banks, the president and vice-president of the council to reside in Washington and to sit at meetings of the federal reserve board but without vote; their salaries to be fixed and paid by the banks.

"3. That in the creation of the new system of regional reserve banks, a beginning to be made with the present central reserve cities (three in number), the number to be increased gradually by the federal reserve, boards as in their judgment conditions warrant.

"4. Concerning note issues:

"(a) That restriction of the issue of federal reserve notes to \$500,000,000 to be eliminated.

"(b) That interest on federal reserve notes be eliminated.

"(c) That it be made unlawful for any federal reserve bank to pay out any notes but its own, the notes issued being given an identifying number.

"5. That federal reserve notes should not be obligations of the government but and that they shall be redeemable by fedury of the United States.

"6. That federal reserve banks mutu-

been a marked increase in the imports of would be benefited thereby. And if ex- a large and varied class of the country's

As noted in a previous comment on this terest rates in the making of loans, those subject, many of the recommendations of been incorporated in the bill, and without doubt the interest taken in the proposi-At the present time a committee of the tion and the support given to the bill by American commission to investigate agri- this body will prove a powerful influence

## MENT.

Here and there in the country one sees farms where all the buildings are kept freshly painted. What a difference of the farm.

In the United States there are thoution of rural credit in their monthly meet- sands of paint manufacturers, and yet At least it is the consensus of opinion of ings, particularly with a view of arriving not over six or eight are known to farm at some conclusion with regard to the folks. These are the ones who are proud of their paint, who know they make a good paint and who want the people, everywhere, to know about it.

You will find them advertised in the

### HAPPENINGS OF THE WEEK.

sentiment to an extent which would be a valuable guide to Congress and the patriotic citizens who devote their energy to the promotion of this movement.

The Chamber of U.S. C. of. C. Approves Commerce of the Currency Bill.

The Chamber of United States of America, met in Detroit last week. This organization in-

Ohio

Ohio.

No change has occurred in the strike situation in upper Michigan. It is alleged, however, that desertions on the part of strikers from the miners' union are occurring daily. Funds and stores are being nearly depleted.

Gen. Daniel E. Sickles, the only surviving corps commander of the battle of Gettysburg, celebrated his eighty-eighth birthday in New York on Monday.

A fire in the business district of Ottumwa, Iowa, resulted in a loss of property valued at \$415,000. Fully one-half of a city block was swept away by the flames.

A new record for markmanship was

A new record for markmanship was made by the U. S. flagship Wyoming of the Atlantic fleet in Lynnhaven Bay, on October 19.

The Illinois Central Commission, which is appraising for the coloration, which

is arranging for the celebration of the one-hundredth anniversary of the admission of Illinois into statehood in 1918, is also asking the U. S. Congress to designate November 19, 1913, as a holiday in commemoration of the fiftieth anniversary of Ab-aham Lincoln's delivery of his famous Gettysburg address. By this means the commission hopes to make the cele-

of Abraham Lincoln's delivery of his famous Gettysburg address. By this means the commission hopes to make the celebration nation wide.

For the first time in the history of Michigan athletics, the Michigan Agricultural College defeated the University of Michigan at football on Ferry Field at Ann Arbor last Saturday, the final score being 12-7.

being 12-7.
Reports indicate that Port Huron voters are well pleased with the commission form of government. The second election the new system will be held in under the new system will be held in November and primaries are now the ab-sorbing interest.

November and primaries are now the absorbing interest.

Foreign.

Affairs in Mexico have changed little during the past week. There is scarcely any interest on the part of the general public in the approaching election to be held October 26. There are three presidential candidates, and by common consent, they have agreed not to allow their adherenets to participate in parades, speech makings, and other practices that would be likely to stir up undue party strife. Even the press is giving little attention to the coming event. Since the Congress has been dissolved it is necessary that the election be held under the authority of General Huerta and General Blanquet, the War Minister. Gen. Felix Diaz, who recently went on a special mission to Japan is now returning to Mexico, accompanied by several Japanese envoys. The dissolution of the Congress

# Magazine Section

LITERATURE POETRY HISTORY and **INFORMATION** 



The FARM BOY and GIRL SCIENTIFIC and MECHANICAL

This Magazine Section forms a part of our paper every week.

Every article is written especially for it, and does not appear elsewhere.

# Mishaps of the Four Ms' October Nutting Party

tober. The day was very warm, and the leaves were falling in a lazy, dcn't-care sort of way. It seemed as if autumn had forgotten her mission and was taking summer's place. It was also fall housecleaning time, and one could hear the slap-slap, whip-whip of many carpet pounders.

School was dismissed for the day. The small boys raced off for a final dip in the old swimming hole. Their sisters decided to have one more tea party on the lawn, and were bringing out chairs, tables, dishes, and whole families of dolls.

Four young girls strolled homeward eagerly discussing a very successful ending of the first month of school. They were lively, merry girls, about fifteen

"I tell you, girls," exclaimed Madge Walters, "we ought to celebrate. Here are our first month reports and we certainly ought to be proud of them."

'This warm day makes me think of a picnic," said Molly Brooks.

"Why can't we have a picnic tomorrow?" asked Mildred Canfield.

"Yes, why not," said Margaret Wetherbee. "It will probably be our last, for it will soon be too cold."

"I have it," exclaimed Molly. "Let's

take our lunch and go to the woods. You know that nice little grove out near

"That's just the place. It will be a good walk to sharpen our appetites," chimed in Mildred.

"What kind of trees are in that grove?"

asked Margaret.

"Hickory and maple," answered Molly. "And I don't believe Mr. Brown would care if we gathered some of the nuts. I heard him tell father yesterday that he had taken all he wanted from the grove, and anybody who wanted them was welcome to them."

"I know somebody who isn't welcome to them," said Madge. "Robert and a lot of other boys went there last year. They clubbed the trees and broke off many small branches. They broke down the fence, too. Mr. Brown came out and gave them orders never to go there again, and don't think they will."

"We will ask him to let us in. I'm sure he won't refuse, for we will promise to take just the nuts lying on the ground," said Margaret.

By this time they had reached Molly's home and she asked them to come up on the porch to finish their plans.

' said Mildred, "for I promised "I can't, Mother I'd come home early and help

"Let's finish our planning right here. What time can you start, girls?" asked

"I can't go very early for I have to take my music lesson," said Madge.

"And it's my turn to do the baking. Dorothy and I take turns, you know. If self in time and concluded with, "my out down the dusty road. it were my sweeping day I might do hair. some of it this evening, but it's too warm now to heat up the kitchen."

"Why not start directly after dinner," to burn it right in front." suggested Madge. "All in favor of starting at half-past one hold up the right served Madge.

Four hands went up.

"Carried," said Margaret, laughing. "The next question is, what shall we take

"Let's have a pot luck affair," said Molly. "I'm longing for something unusual. Don't tell anybody what you intend to bring and we'll have a surprise."

"It will be a surprise," said Madge, "if It's wrong to tell falsehoods," said Milall of us happen to bring the same dred, while the others laughed at the

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

### By LILLIAN M. COLE.

Indian Summer Days—By CHARLES E. JENNEY.

Now Summer dreams, and in her dreaming sees

Her glorious prime again; through leafless trees,

The leaves give, incense-like, in their last blaze.

And through the glamour of the rising haze

Dreams of old days, recorded not in script,

When Nature from unsullied fountains sipped; When woods primeval flourished far and wide,

And winds o'er vast unbroken prairies sighed;

And, dreaming, sees the red man's ghost arise,

Dim spectres of some ancient wrongs and ires,

Sees in the gloaming wigwams pitched in row,

But daylight shows the horror-stricken gaze

The war-dance act around the smouldering fires.

And, gruesome sight, are those skulls there below?

Corn shocks and pumpkins where grew golden maize.

So Summer dreams, and dreams of Spring once more;

hungry now. Whatever is in them will a spring over in the northwest corner of

June's perfect days, and August's prime lives o'er.

And if she wakes, why Night will soon be by

And Spring will come again to you and I.

And, fitfully against the darkening skies,

"And don't forget a basket for nuts," husband isn't home but I guess I'll do. said Mildred.

"Why not take our lunch baskets?" asked Molly.

"Unless we want to eat as soon as we like pressed lunch," was the answer.

"But then, I never do think until it's to there yesterday and there were a good

"You wouldn't be Molly Brooks if you were thoughtful," said Margaret.

Then the girls went their several ways with goodbyes and promises to meet at Margaret's at exactly half-past one.

As they went down around the house.' the street it would have been difficult to look at the merry party with a basket on tainly be thirsty."

"I'd like to know what is in your bas- some if you are willing." kets," said Mildred, eying them curiously.

You see Mr. Brown thinks a great deal of those trees. They're all young ones he set out himself, and when those boys broke off so many of the branches he get there, we would have to put the nuts felt pretty bad. He wouldn't care about on top of the lunch and I, for one, don't you girls, for I'm sure you wouldn't do any harm to the trees. As for nuts, you "I never thought of that," said Molly. may have all you can carry. I was down many on the ground. This brisk wind will bring down more, too."

"But don't you want some for yourselves?" asked Margaret.

"No," replied Mrs. Brown. "We have Molly. all we want from the grove. You see Saturday was all that could be desired there are many hickory and walnut trees

The girls thanked her and were about find a group of girls in better spirits. to start off when she said, "What are More than one person turned for another you going to do for water? You will cer-

ets," said Mildred, eying them curiously. "You're very welcome to all the water "I wouldn't," said Madge. "I'm not you want," said Mrs. Brown, "but there's

kets under these bushes while we pick up nuts."
"That's just the place." cried Mar-

"We'll probably eat supper here. garet. We couldn't find a more beautiful place, and it's so near the spring. We will be entertained by spring music."

For the next hour little talking was done for they found plenty of nuts to keep them busy. They had removed their hats, for it was still quite shady under the trees. The wind was blowing and occasionally a nut dropped.

"I wish those nuts would stay where they are for a few hours. I don't care to have one come down on me," said

"The trees aren't tall so they don't have very far to fall. I don't believe they would hurt much if they should strike you, Molly," said Margaret, looking up among the branches.

Just as she finished speaking the wind dilly be thirsty."

"We thought we would come here for nuts fell. One of the largest struck her on the forehead, just above the left eye.

"Ouch," she cried, putting up her hands. "I didn't suppose they would fall

"Come down to the spring and put cold water on it," suggested sympathetic Madge. The cold water stopped the pain, but a

large lump rose, that showed signs of turning purple.

"You're a beauty," laughed Mildred. "Does it hurt much?"

"No, it doesn't hurt at all now, but I promised to sing a solo in church tomorrow morning. I'll be a pretty thing to get up before all those people."
"Better turn your head and sing out

of the corner of your mouth," remarked

"A valuable suggestion. Thank you Molly. I think I'll follow it,"

By the time the baskets were filled

each girl was ready for supper.
"I'm nearly starved," declared Madge. "I believe I dreamed about eating dinner and really didn't have a mouthful,"

groaned Mildred.
"How does my head look, girls?" inquired Margaret, anxiously

"It's a most beautiful purple color," answered Madge, "a right royal purple." "Seems to me I see a bit of yellow around the edge," said Madge, who was

examining it closely.
"That's Margaret's 'streak of yellow' showing up," laughed Mildred. "I bet she is thinking of breaking her promise to sing tomorrow."

"You're right for once," said Margaret, "and can you blame me?"

look much better in three or four hours." the grove, near the brook. The water is out the contents of those other baskets.
"I don't believe any of you had as fine and very cold. That will save you I'm 'Mildred, the Curious' this afternoon." "Girls, I can't wait any longer to find

"I think we're all curious about the supper question. I feel as hollow as a drum," said Madge.

washed my hair this morning. Then, of dropped wearily to the ground and said newspapers were used, with a sigh "That's a profit long two

From out the four baskets came four "It is two miles to the corner the other pies, four plates of sandwiches, a pan of heavy. Seems heavier than when we side of Brown's house, and three-quarters baked beans, two dishes of potato salad. one dish of fruit salad, two bottles of "I'm rather tired myself. Suppose we strong cold tea, two bottles of lemon rest and look about awhile before we be- juice and sugar, besides cheese, celery

delicious!"

"I'm glad my fruit salad isn't entirely a tour of inspection of the whole grove. melted, though it is rather soft. Several The bright sun shining on the bright- pieces of the frosting belonging to my colored leaves, the golden-rod and other lemon pie are sticking to the paper, but

"I know it," said Molly, "but I wanted

course, while I was curling it I managed with a sigh, "That's a pretty long two the corners to keep the miles, I'm thinking." "It's more than two miles," said Madge.

The girls again thanked her and set

As they entered the grove Mildred

of a mile from that corner to the grove." "I wish it wasn't quite so warm. I'm gin to gather nuts," suggested Margaret, and pickles."

and the tired girls gladly agreed to it, "What a conglomeration!" exclaimed for the grove looked very cool and in- Mildred. "But doesn't everything look After resting a few minutes they made

beautiful autumn flowers, made the whole I'm thankful it's no worse," said Molly. place seem like an enchanted wood. At "Lemon pie is a great thing to take to last they found the spring and had a re- a picnic," laughed Margaret. freshing drink.

"I should think that water is good," something good and it's the best stuff I

picnic and gather nuts in the grove.

with nuts," remarked Margaret. afraid my fr-, there it goes again," ex- and the tired girls gladly agreed to it, "I'm not going to say an-

"I know my basket is

ploded Molly. other single word before supper." "Now, Molly, don't say such things.

my lem-," began Molly, but caught her-

"Serves you right for being vain," ob-

"Just wait until the other one is filled

Really, girls, I told the truth for I

idea of Molly keeping still. But she managed to keep silent for five minutes. When the girls reached the Brown res-

"Well," said fat, jolly Mrs. Brown, "my

ing the frosting, too.

"I think we have plenty of pie and olives." remarked Madge.

"What kind is yours? Mine's cherry," said Mildred.

"Mine's peach and I see Margaret's is pie," was the answer.

"You will certainly get enough of it for once. I am glad they're not very large so we can have a piece of each becoming." They do look so good!" exclaimed

"I think we better begin with more substantial things, though," said Margaret, passing the beans.

"The idea of a picnic without cake. We nearly always have too much of that," said Mildred.

"I guess we all thought of that and didn't bring any," put in Madge.

The girls certainly were hungry if we judge by the way the good things disappeared. After the dishes and remains of the feast were packed away, Mildred suddenly exclaimed, "Let's go wading. I saw a fine place not far off. The creek spreads out and makes a regular little pins," said Mildred. It didn't look very deep, either."

"All right! The very thing! Let's readily joined in the laugh. go!" chorused the others.

"But where are our towels?" asked Margaret.

"Oh, we can hold our feet up in the sun until they dry," suggested Molly, having such mishaps. laughingly.

"We can take these newspapers we used for a tablecloth," said Madge.

Yes, wipe our feet on our tablecloth," "But as long as they laughed Mildred. served as tablecloth first, I don't object."

What fun it was to wade in the warm, shallow water! They paddled and splashed and enjoyed it as much as children

Finally Madge called out, "Enough is enough. If I stay in much longer my feet will be soaked up so much I won't be able to get my shoes on. They aren't any too large when my feet are dry."

She sat down on a large stone at the edge of the water with her shoes and stockings near and proceeded to dry her feet on a newspaper. A merry little breeze came along and blew her stockings to the very edge of the bank, but she did not

"Look, Madge! There go your stockings!" cried Molly, excitedly.

Madge reached for them but the wind was more nimble than she. It gave another puff, and just as her finger tips touched the stockings, they fell off into the water.

"Oh, dear me! What shall I ever do to get home!" she moaned.

"Use newspapers!" suggested Molly.

"Go without any and people will think you have white ones," suggested Mildred. "I might pass muster either way if it were dark, but who wants to stay here that long," mourned the poor unfortunate.

"I'll hang them on a tree in a sunny place and they'll soon dry." said Margaret, wringing the water out of them.

Mildred and Madge were still paddling about in the water when Margaret returned. As she drew near, Mildred jumped upon a stone and began in a theatrical voice, "Behold the benevolent Lady She goes about doing only She kindly suspends your most humble hosiery on the grand old hickories when the playful breezes waft them into the

Just then Mildred threw out her hands to make a speech more dramatic, lost her balance and fell into the water with a mighty splash.

"O-h-h-h," she spluttered as she

scrambled to her feet.
"Are you hurt?" the others asked anxiously as they led her toward the bank.

"No," was the shivering answer, " but didn't fall out." I'm so dreadfully

"I should say you were wet!" laughed

woods rang. "I don't see anything to laugh at," grumbled Mildred. "All I'm doing is dripping. That wind isn't very warm,

either.' "I should judge not by the way your teeth, are chattering," said, Margaret. cord." "Forgive us, Mildred, for you do look ridiculous. But come, we must go up to "It will be so very pleasant to Brown's and get you some dry clothes. basket in my arms like a baby. We'll go across the meadow and up the lane and nobody will see us."

"I'll stay with Madge until her stockings are dry," said holly.

How Mrs. Brown did laugh when she saw Mildred! "You certainly look like 'a

come right in. Now take off those wet sumed. things and I'll get you some dry ones. It's lucky I was late with my baking this Molly exclaimed, "Why didn't we put the afternoon, for the range is still hot and your clothes will soon dry."

When Mildred was again clad in dry pumpkin. Lucky me. I always did like garments and sitting by the kitchen stove laughed Mildred. drying her hair, Margaret said, "It seems to me you look just as funny as you did before. That dress fits so well and is so

> than slended Mildred, her clothes had to the machine stopped. be "tucked up and tucked in," as she expressed it, with pins. The blue and white striped house dress had a generous tuck pinned in the skirt, the sleeves were tucked up with pins and the belt was all laid in with tucks; and still the waist fell to her hips and the skirt dragged on the floor. On her feet were a large pair of fur-topped slippers that gave forth a dismal "flip, flap, flap," with every step.

"A new style of Bulgarian blouse," laughed Margaret.

"It ought to be called a sharp blouse on account of the sharp points of those

Presently Madge and Molly came and

Then, after silence had reigned for about two minutes Molly said, "I can't understand why it wasn't me who took that tumble. I'm the one who is always

"I don't quite understand how you could slip off the stone when you were five feet away from it," remarked Mildred serenely

"That is the only reason I didn't," said Molly with a laugh. "But don't feel sorry girls. Something will happen to me before we get home, I know. You've each had your accident and I'll have mine. I am sure I'm not lucky enough to escape."

And she didn't escape. Just at the edge of town was a hill that rose gently from the surrounding country, but had a steep slope toward town. As they reached the summit, Molly set her basket down with a thump that loosened the fastenings of the handle on one side, but poor Molly was too tired to notice it.

"I do believe this road stretched while we were out there today. It seems at least four miles from here to the grove," she groaned.

"How does my head look now, girls?" asked Margaret for the tenth time.

"The size remains the same, but I think the color improves. It seems to be of a deeper and more brilliant hue than was an hour ago," answered Madge.

"Then I feel certain I won't sing to-morrow," said Margaret, folding her hands with a look of resignation.

"I move we go home," said Mildred.
"Second the motion," said Madge and Margaret. "Come on, Molly."

"I'm too tired to move," was the answer.

'You can't stay here all night and use your basket for a pillow, for you know you would be afraid of the shadows as soon as dark comes," counseled Margaret.

"Quick girls!" cried Mildred, "there goes Willie with his express wagon. Let's have him draw the nuts home!" and off she ran.

The other girls snatched up their baskets and started off on a run. Molly didn't run far, however. As she lifted her basket one side of the handle came off, scattering the nuts to the ground, where they started to roll down the hill.

"Oh, girls," she cried out. "Just see! Oh, dear! What shall I do?"

"Pick them up," was the comforting answer, as the other three turned back. "I'm too dead tired to pick up a one," said Molly, despairingly.

"Never mind. We'll help you," said Margaret; "and see, here are six that

"How did it happen?" Madge. "I thought I was bad enough, immediately began to rain nuts," answer- erica. Then he disappears to winter some-ed Molly, her good humor returning. "I where in the tropical regions of South Then the three girls laughed until the see now the handle is loose on one side. America or possibly in the islands of the I suppose I loaded it rather heavily, for it doesn't look very strong."

"There's never any great loss but some small gain is with it," said Mildred. "You won't have to carry these nuts down hill nothing on this bleak and inhospitable for they rolled down of their own ac-

"That is a big gain," returned Molly. "It will be so very pleasant to carry this

"Tie a string to it and drag it on the ground like a sled," suggested Madge. Molly.

"Or a hat band," said Mildred.

By this time the nuts were again in the

know of. I burned three fingers brown-drownded rat'," she exclaimed. "But broken basket and the journey was re- ended," he said gaily. He was well known

Before they had gone a dozen steps nuts in my lunch basket and put the Of course all the accidents were describdishes in the broken one?"

"Just because we didn't think of it,"

"Let's do it now," said Madge.

The transfer was soon made and they once more started on their journey. Just M's. then a large automobile overtook them As Mrs. Brown was several sizes larger and Margaret recognized her uncle, as

to see you in my life," she cried. "We are almost tired to death."

"Get in and your troubles will all be bow.

adventures today. I think you had better call them, 'The Mishaps of the Four

to all of Margaret's friends so no intro-

Soon they were laughing and talking.

"Well, well," he exclaimed as the story

was ended. "You certainly have had some

ed, and Margaret's head was admired.

ductions were necessary.

You will see in life just what you are "Oh, Uncle Ben! I was never so glad looking for. If the lenses of your telescope are smoky you will see the gloom; if they are clear you will see the rain-

## Thrash It Out—By MARGARET ERSKINE.

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

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

Molehills will soon be mountains, if we sit an' watch 'em grow; An' poundin' at the Bread o' Life, won't help keep sweet th' dough Nor make it better eatin'. An' of this I have no doubt. You'll find the world nigh Heaven, when you've thrashed th' bitters out.

### MYSTERIES OF BIRD MIGRATION.

BY ORIN E. CROOKER,

There are still many unsolved mysteries in the realm of bird migration. These feathered travelers go and come with almost clock-like regularity and often cover thousands of miles in their migratory lights. But many things associated with these long jaunts yet remain matters for speculation or further scientific investiga-

It is now quite generally supposed that birds undertake the northward flight in spring because of certain physiological changes which prompt them to seek the usual breeding grounds of the species. The southward flight in late summer and autumn is supposed to be the direct result of a diminishing food supply. But these suppositions may not be said to be proven; there may be more subtle causes

Another mystery that is yet unsolved is for the most part by night. It has been suggested, however, that this is to more easily escape birds of prey which would at the time of occurrence. probably hang upon the outskirts of such an army of migrants were they to undertake to travel by daylight. Here also the theory appears plausible, yet may be far from the truth. How birds keep their course; whether the young follow their parents the first time or some experienced leader; why they fly high on clear bright nights and low on nights of cloud and storm-all these are yet problems without an authoritative answer

Certain species of birds present individual problems peculiar to themselves. The golden plover, for instance, starts from Nova Scotia and evidently launches out over the broad Atlantic, as he is not cited land in his southward journeying. Neither is he seen on any of the islands in mid-ocean, except very occasionally when evidently driven to shelter by severe storms. When he next comes under observation he has reached the mainland of South America. Here, then, is a distance of 2,500 miles at the very least, which, so far as anyone knows, this bird must cover at a single flight. Does he do so, or has he some as yet undiscovered resting place in mid-ocean where he stops for food and rest? No one knows.

Where does the chimney swift spend the winter? His migratory course has been traced pretty accurately through the "Why, I picked up the basket and it southern states, Mexico, and Central Am-"I where in the tropical regions of South south seas. At any rate his winter abode is shrouded in mystery.

Why does the Redpoll visit Spitzbergen is a problem that is unsolved. There is arctic land to attract even such a bird as the Redpoll who wanders in winter rather than migrates. The nearest land, too, as though from a long flight such as he is not accustomed or equal to. It may be old, some of whom undoubtedly visited that they knew a large herd would not

the shores of America before the time of Columbus.

The Connecticut warbler, a dapper little bird which breeds in Manitoba and winters in South America, makes its southward flight through the Atlantic states, but when it comes north in spring it always does so west of the Alleghanies. To what peculiarity of bird temperament shall we assign this vagary of flight? This is only one of innumerable mysteries which puzzle the student of birds.

### QUEER ACCIDENTS TO HUNTERS.

BY ISAAC MOTES.

Considering the risks and chances hunters take when after big game, it is surprising that they escape unhurt from some of their adventures. It is often said that hunters lead charmed lives, and cleverness with which they make than these which operate to impell birds hair-breadth escapes seems to prove the to undertake these extensive journeyings. truth of the saving. Some of these encounters and adventures have a humorthat of the migratory flights being taken ous or ludicrous element about them when they are recalled years after they happen, despite their tragic seriousness

> A deer-hunting friend of mine in Texas had an exciting experience a year or two ago with a big buck, an experience which was laughable enough after it was all over, but no "laughing matter" at the time of its occurrence. He had been told that the rattling of deer antlers together in imitation of the sounds of bucks fighting would bring to the scene any bucks which might happen to be within hearing of the peculiar noise. He borrowed a pair of antlers from a farmer, and the next day went off a mile or two into the woods, climbed into an elm tree with low, wide-spreading branches and began knocking the antlers together.

In a few minutes he saw two big bucks coming towards him, each from a different direction. They met right under him and began fighting. The fight was a long and furious one, and my friend was so interested in watching them that he forgot all about his gun and didn't attempt to kill one of the deer. In his excitement, while trying to change his position in the tree so as to get a better view of what was going on directly below him, he missed his footing and fell upon the back of one of the bucks. His unexpected appearance surprised and frightened the animals almost out of their senses, and they quit fighting and broke for the thick timber. My friend was carried some distance upon the back of the buck before he was dumped off into a bunch of cactus. The accident might easily have led to most serious injury to the hunter, and yet no harm resulted to him.

This recalls a rather ludicrous and yet dangerous adventure, an account of which I read many years ago, which resulted in a hunter having a most unlooked-for ride on the back of a wild, infuriated buffalo. from which he could come is Norway. He It was many years ago, when great herds is usually found in an exhausted condition of buffalo roamed over our western plains. According to the story, a party of four hunters had gone out on the plains to "Provide a string and I will," cried that he is the victim of some tricky air shoot these animals. They camped, one current; perhaps he is a hardy venture- beautiful night, near a stream in a rough, some bird explorer like the Norsemen of somewhat mountainous section, so rough be apt to come along that way and run over them, for in those early days when buffaloes traveled in great herds they

plains. They avoided rough, mountainous regions where they could not run well, so experienced buffalo hunters and plainsThrough weird pranks—'tis Halloween. plains. They avoided rough, mountainous so experienced buffalo hunters and plainsmen always camped in these rough localities. But among these hunters was an eastern man who was not familiar with the habits of the buffalo, and as the night was beautiful and starry he rode out across the plains after supper, although cautioned by his companions against domen always camped in these rough local-

ing so.

He rode on and on, charmed by the wide flower-decked plains, with the moonshine so bright you could almost read a paper by its light, as the air, in those early days was clear and free of smoke. When he finally turned to go

When we see the children playing Pranks, we're not inclined to scold; But in fancy we go straying Back to happy days of old, When we cut the same sly capers—Not intending to be mean—That will fill tomorrow's papers With the pranks of Halloween, back to camp he lost his way and became bewildered; then, knowing that his beats, though he didn't dare try to turn companions would be out looking for him the first thing in the morning, he dismounted, unsaddled and staked his horse and lay down, with his head on the saddle, to sleep in perfect contentment and

As he had wandered around a good deal he was tired and dropped off to sleep almost instantly. But sometime in the night he was awakened by a tremendous roaring and trembling of the earth, and this mountain, the hunter slid off the sprang up to find a great herd of stampeding buffaloes coming toward him from the east, the western moon reflected in their glaring eyes like ten thousand coals

could reach it the buffaloes were upon to be out of danger from the oncoming no escape for him, but fortunately one of the bulls leading the herd lunged at him, listened to the thunder of their hoof caught him on its horns and tossed him into the air. When he came down he found himself astride the back of a big buffalo bull. He grabbed the long hair growing upon its shoulders and held on the mountain and the other to the south like grim death. Thus he was comparatively safe from their trampling hoofs as long as he stuck to the back of the buffalo. And as so many others were wedged in around this one it didn't have room to jump, pitch and plunge until he got thoroughly settled upon the animal and got a good grip on its long hair.

As this buffalo was near the front of the strange creature sticking to his back ran more rapidly than his fellows and voice, and presently all his companions gradually pushed ahead of the herd. The rode up, having been out on the plains plains were level, and there were no behind the herd looking for him, with ahead of the herd this lone buffalo kept the ground. straight ahead in the general direction it friends when they found him sitting there had been going.

stay on the back of the bounding buffalo side until it had gotten out of their way. allowed him no time to look about him. After getting some distance ahead of the upon the horns of the mad bull, instead herd, and finding that he was able to of causing his death, was the only thing stick to the buffalo's back, he could form that saved his life, and the only thing, some idea as to the distance they were humanly speaking, that could have savahead by the sound of the others' hoof ed it.

HALLOWEEN.

BY CHAS. H. MEIERS.

sometimes took alarm at something and stampeded.

When october is exhausted

And lies dying in the night,

When such herds stampeded it was when the pumpkin vines are frosted

And the sidewalks glisten white in the moonlight that is dancing

and look behind him.

As they plunged ahead through the white night they finally got into somewhatt broken, hilly country; one hill in particular was so high and steep that it vas almost a mountain. It was so high that the hunter didn't believe the buffaloes would run over it, but that the herd would split when they came to it and go around it. So, as his buffalo passed near animal's back and ran for the mountain, while the buffalo was so relieved at getting rid of his strange rider that he plunged on straight ahead. The hunter reached the mountain and ran up its He ran for his horse, but before he steep side to a point which he believed To human appearances there was herd. Then he sat down and looked back at their ten thousand gleaming eyes, and beats upon the prairie sod.

Sure enough, when they reached the mountain on which he sat the herd divided; one part went on the north side of of it, two black streams of bounding, billowy life, leaving the hunter in perfect safety.

For some time he sat there thinking of his queer experience-what a narrow escape he had had, how far he had ridden on the buffalo's back, where his companions were, and what had become of his faithful horse. While sitting there wonthe herd, and was naturally excited by dering what he should do first, he heard shouting, and soon the sounds came nearwith the persistence of a cocklebur, he er. He shouted back at the top of his trees, streams or gullies to interfere with dread in their hearts, believing that he their progress; so, after getting out had almost certainly been trodden into Great was the joy of his on the mountain side, strangely cool and On account of the clear moonlight the calm, and absolutely unhurt. Even his hunter could see far ahead of him across horse was safe, as it had run in front of the level plains, although his efforts to the herd, gradually bearing away to one

The hunter's being tossed into the air



A Seven-year-old Farmer Reader Sends his Latest Photograph. This is a picture of me any my pony. She is a year and a half old and I named her Beauty. I haven't got her broke so I can ride her yet, but Papa is going to break her next year so I can drive her to a little buggy. I am seven years old, have light blue eyes and dark hair. Have just begun to go to school. I hope I will see my picture in The Michigan Farmer.—Glenn Frisbie, Van Buren County, Michigan.

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

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> THE CURTIS PUBLISHING COMPANY INDEPENDENCE SQUARE PHILADELPHIA, PENNSYLVANIA



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

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Better buy it by the box or carton.

Fels & Co., Philadelphia.





## How One Mother Deserted Her Child.

getting away from everything and every- she came to the table what she was going looking on as a disinterested spectator for nor dried a dish. a short while, the most of the discontent and fretting would cease.

all the family except Husband and one mud on baby shoes. She fed no chick-Old Maid Aunt disapproved, and though ens, carried no wood nor water, built no she was only gone one short week, she fires and took care of no milk. She sim- jar within an inch or two of the top. Add feels "like a new woman," to use her ply ate and rested and "Went." She a cup of sugar and when lukewarm a own words.

Daughter cut some teeth, there were clubs, a lecture, an art exhibit and a quarts and quarts of fruit and vegetables demonstration in cooking, besides going salt and flour for a thick batter to can and pickle and preserve, countless small chicks and some turkeys to look after, company from the city every Sunday or so, to say nothing of the wood and water to carry when Husband occasionally forgot it. She was a very Young and her proportion to her strength, and she got to feeling that the world was out of joint. She worked and worked and worked, and she thought, without getting any feel that husband's good nature and con- away. tent were the thanks he forgot to mena bundle of "blues" and "nerves."

"Let me take care of Baby Daisy and you go away for a week," suggested the Old Maid Aunt.

"I never could leave her," said Young Mother.

a week than leave her for three months of helpful hints about Baby Daisy's train-while you go to a sanitarium," threat- ing, gleaned from the mothers' club, and ened Old Maid Aunt darkly.

Young Mother got pale, cried down the baby's neck, then wiped her tears on the little white dress and said she'd talk it conjure up a mental vision of the great Grandma, on both sides, groaned over. in chorus.

"Leave your baby for a week. I never heard of such a thing. I couldn't have done that way with my children," said And all the rest of the women of plain to her. both families looked horrified at such unmotherly conduct.

tired out and nervous and needs a rest. What rest would she get with a baby in a strange house?"

So Young Mother left for a week with a cousin in a near-by town. She wanted

F all the nervous, hurried, worried something entirely different, she said. people in the world knew the im- For one week she didn't have to get up mense advantage to be gained by and get breakfast. She never knew until one connected with their daily grind and to have to eat. And she never washed

of mischief, nor sigh over little sticky Young Mother tried it last fall, though finger prints on windows, nor grean over shopped all one day, then went to a con- yeast cake. Make in the afternoon. It had been a hard summer. Small cert at night. She went to two women's to church three times the one Sunday she organ and the best singers in the town.

At the end of the week she was physically tired out, but her mind was clear ner only making enough for one baking Mother, too, with a conscience out of all down. Besides she was crazy to get back home, from which she had fled in despair the week before. She could hardly wait to see Baby and Husband, and the nearer she got to the farm the more she wonthanks, for she was so tired she couldn't dered how she ever could have gone dark.

The grandmothers seemed positively When October came, she was just disappointed that they hadn't a sad tale Young Mother didn't care. She had come back brimming full of new ideas, ideas in cookery gained from the demonstra-tion she attended; ideas in home decoration and the real dignity of home-making "You might better leave her now for got from one woman's club, and a host the music she had heard came back to her all through the winter. On trying days she had only to close her eyes and church with its quiet and peace, the subdued lights coming through the stained windows, the solemn tones of the great organ, to have the uselessness of worrying over the trifles of her daily life made

Thus one mother is a convert to the idea of leaving the children for awhile.

motherly conduct.

Then Husband, who was a very good. "I know everyone but Husband, who was a very good." I know everyone but Husband, sort, said in his most masculine tone, Aunt thought I was utterly heartless," sort, said in his most masculine tone, Aunt thought I know I've been a sort, said in his anyway. She is all she confided, "but I know I've been a better mother to Daisy ever since I got back, and I love her more than ever now I've had a chance to see what life would really be without her."

DEBORAH.

## The Quest—By MILDRED M. NORTH.

My grandmother used to tell me Of a man who, so they say. Went out to look for a helpmeet In a most unusual way.

Of course, he wanted her lovely, He wanted nice things to eat, But above all things to be saving, And likewise clean and neat.

And he vowed that he would find her, The lass who should be his wife; Or he'd go with his socks unmended For the rest of his natural life.

And his grandmother told him.

When he asked her what she thought,
That a lass who scraped her breadtray Would prove the one he sought.

Now this youth was good to look at,
Dark eyes and dark brown hair,
With a face that was bright and winning
And a manner debonair.

And one morning bright and early He donned his Sunday best And with his horse, Bay Billy, Set out upon his quest.

Wherever his fancy led him There he stopped and asked to rest, And always of some maiden He made this strange request:

"I would buy some oats for Billy; He's been taught a silly whim, And if it is quite convenient Will you please to humor him.

If some scrapings from your bread tray
You will sprinkle on his fede.
Will surely thank you kindly,
Billy will be pleased indeed."

So now, lassies, scrape the breadboard,
Have it clean and neat I pray,
For some day a gallant stranger
May come riding by your way.

And each maiden sweet and blushing Quickly hastened from the door.
Scraped the breadtray, brought the
scrapings—
Some were ne'er so clean before.

Some had few and some had many, Still he smiled and rode away, And at night their dreams were haunted By the stranger and his bay.

Then one evening just at sunset, He beheld a cottage small., Where red roses leaned and listened Nodding o'er a low stone wall.

And a maiden bade him enter
With a face so fair and sweet
That he quite forgot Bay Billy
And the fare that he must eat,

Then at last he did remember
What had brought him on his quest,
And although he feared and trembled
Still he put her to the test.

But she laughed, half shy, half saucy, As she stroked Bay Billy's nose: "Will he eat his oats without them Just this once do you suppose?

"Mother always cleans her breadboard I'm her daughter, so must I." And it seemed Bay Billy's master Was well pleased with her reply.

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

AN EASY WAY TO MAKE BREAD.

BY VERNA T. WONSER.

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

Three medium-sized potatoes are about Neither did she take baby fingers out right for a good-sized baking. In cold weather take enough potatoes for three good bakings, about 20 good-sized loaves, boil, mash, and using the water they were boiled in add enough to fill a one-gallon

> In the morning take a third of it, add a scant quart of water, a small handful of

When light mix into a hard loaf, let was there and hearing a marvelous pipe rise, form into loaves, let rise and bake. This for a large baking.

In warm weather proceed in like mannerves considerably calmed at a time. The yeast should be kept cool not allowed to freeze.

I have seen recipes calling for two, and even three, yeast cakes for a small baking of bread. Too much yeast gives a strong taste to bread, besides making it

There is such a difference in flour that one cannot give a rule for the amount. Some flour you must mix till you are tired of trouble to tell when she got home, but out, to get the bread mixed hard enough, while with other flour the mixing is quickly and easily done. Experience is a great thing in making bread. But it always pays to get good flour.

I hope this will help some beginner to make good bread that will rest well on the good man's "tummy," for I have a "feeling" for beginners, and also for any workingman who has to live on poor bread or bakers' bread. The honest, hard working man surely deserves good wholesome food, and good bread is the foundation of good food.

### LETTER BOX.

In Answer to "Signs of the Times."

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

If I profess to believe in the teachings of Jesus and then go about my daily affairs, watching every opportunity to take advantage of my fellowman, neighbor, or whomsoever I meet, is it not plain that I am a fraud? If business places such demands on us then had we not better keep still about religion? When you can get the business man, the real estate man, the monopolies and trusts, and the heads of our governments christianized as Jesus taught them to be, then you will have no trouble in keeping this same religion in the homes of our American people.

So long as the middle classes or laboring classes see that religion is only used as a weapon to keep them in subjection and subordination, so long will religion diminish.

I have had many talks with persons who claimed to have a strong belief in christianity, but when the test of putting it into practice was applied, they replied that was not business. So, then, we infer that religion is theory, business is practice.-Yours, Hay Rube.

### AN EVENING WITH BOOKS.

BY IRMA B. MATTHEWS. It is really quite difficult to plan an entertainment for an evening party, for it seems that there is nothing new to be thought of. The writer recently was asked to plan something and after due thought decided to have an evening with books.

After the guests were assembled they were invited into the dining room where the table was covered with a number of pictures and articles, and they were told that each article represented a book. Each was supplied with paper and pencil and



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told to name as many of the books as has discovered her need and the possipossible.

is a list of the books used, with titles. No doubt others will also suggest themselves to those wishing to use them.

Picture of man with Hon. Thompson, no more than about \$250. Indianapolis, written below it. (The Gentleman from Indiana).

Picture of a cowboy, and Virginia above (The Virginian).

mountains. (The Shepherd of the Hills): A small black stone. (Black Rock).

A box with the picture of a man pinned

A moonstone. (The Moonstone).

branches from a tree set thickly into it, (When Wilderness Was King).

A match. (The Lamplighter).

A picture of a wild cat, any wild animay may be used instead, below was pert's serious consideration. written, "calling his mate." (The Call of Meanwhile, while the farm the Wild).

A pair of wings cut from white paper. (White Wings).

(Lavender and Old Lace).

Picture with the head removed and another pinned on that looks toward the terests, back. (Looking Backward).

A rose. (The Rosary).

Scarlet Letter).

watha).

Picture of a wolf and one of the sea joined together. (The Sea Wolf).

A picture of a Duchess cut from one of the daily papers. (The Duchess). The name Marion pinned on a piece of

gray cloth. (Marian Gray).

The most of the names selected would be available any place or there may be others substituted, nearly anyone can think of some. The prizes were a pretty book for the one who guessed the most, and a child's picture book for the one guessing least. The winner in the case had all but four correct.

Any simple refreshments may be served. Ice cream and cake is good, although the hostess on this occasion used jello with cake instead, and cups of hot coffee.

## EACH WEEK?

BY CHARLOTTE BIRD.

wife lifts on an average the week through can be much smaller. a ton of water. This is the average doors. For the three meals a day ten doors when sweeping the room. bucketfuls are needed, which, having The table itself need not be over two it easily foots up to a ton.

for household uses on the farm continues There are many little things one can monly drawn from the well by bucket in such as small trains of cars, little ani the primitive way.

in which case it has necessarily to be other trees make trees and bushes. carried up. This is a truly heavy burunnecessary.

If a man found that he could avoid magazine and they will be found interest such an expenditure of strength by the ing to the mother as well as the child. purchase of some article which would In this way the mother may teach her cost two or three hundred dollars, would little ones while they are too small to go he not buy the machine immediately with to school, especially in the country where the self-assurance that every year it there are no kindergartens. Both mother WANTED—Men and women for Governmen bositions. Examinations soon ways been with a woman's labor; it has all together ways been with a woman's labor; it has together been cheap but arduous till she herself without. would pay for itself? But so it has al- and child will profit by the hours spent ways been with a woman's labor; it has together while the wind and storm howl

bility of reform. In many cases the man Everyone enjoyed it and had much is not indifferent, he is merely absorbed sport over some of their guesses. Below in his own work. Yet the installation of water system, it has been reckoned, would eliminate this useless drudgery, and such a system in a house need cost

The number of farm houses piped and supplied with water from tanks, filled by motors or windmills, has been steadily increasing in all parts of the United Two pictures joined, one a man with States. Yet the fact remains that nineseveral sheep, the other a picture of tenths of woman's drudgery on the farm has to do with the antiquated methods of the water supply for domestic uses.

It is a question whether the independupright on top of it. (The Man on the ent equipment will ever completely meet the needs of the farm home, but one thing is sure, it would be a long way better basin containing several tiny than nothing. The question of the water supply is very intimately connected with the basin must first be filled with sand, in the uplift and comfort of life; it has inthe center a king from a playing card. timately to do with the number of bathtubs and the housekeeper's time for rest and reading. Therefor, it is entirely worth while to give the subject an ex-

Meanwhile, while the farmer is weighing the possibility and advisability of linking scattered and isolated farm homes together by the pipes of a common water A piece of lavender on a piece of old system, he should not rest content but lace, if the lavender cannot be obtained immediately install a small plant which use a piece of lavender cloth instead, will supply his home and save the precious strength of his women folks. it would well serve his own personal in-

It might even go far to solve the problem of discontent on the farm, which is A letter cut from red paper. (The one of the greatest social an deconomical problems of our times. Under conditions A tiny book marked sketches with one where life is a long-drawn-out drudgery, or two sketches, very crude ones they where can there be any joy, any real were, too. (The Sketch Book).\* contentment? Yet farm life could and A picture of an Indian Warrior. (Hia- should be the most delightful in the world. Some day farmers will make it such, because they will have learned how to make it beautiful and easy.

### THE SAND TABLE.

WONDER how many mothers who have little children that are too small to go to school, have begun to plan for the cold winter days when we are all shut in, more or less? Of course, it is best that little children should get out of doors for part of the day and if they are well bundled up they thoroughly enjoy playing in the snow but, if it is very cold, they soon make up their minds to stay indoors. Then comes the problem, "What can they do?"

Two or more children can have a better time playing indoors than one alone. DO YOU CARRY A TON OF WATER Even if a child is very imaginative he will tire of his own games and call for something new. One good way to amuse a child is to let him have a sand-table The president of the Mississippi Nor- to play in. We have all seen the large mal College has estimated that every day ones in kindergarten rooms but where day, including wash day, the farmer's only one or two children are to play they

When we made one for our small son woman who does her own work in a he was only two and a half years old but house without a modern water supply, he would play by the hour forming hills The same investigator claims that the and hollows in the clean, white sand. water used for cooking on the farm, is Being sure some of the sand would be handled six times and each time it is spilled I had a rug closely woven of lifted. It is lifted from the well, carried bright colored rags on which to set the to the kitchen, poured out for different table, and the sand that went overboard uses and at length is emptied out of fell on this rug and could be shaken out

been lifted six times, is equivalent to feet wide by three feet long and about 1,200 pounds of lifting. If one adds the six or eight inches deep. This part may water used in washing and cleaning be made of a packing box but it should about the house, for bathing and eating, be lined with oilcloth so that the sand will not sift out. For legs we used those Now this is where the water supply is of an old sewing table and as they had at the door. For the rural water sup- casters on the table could be easily movply the well continues to be the chief ed about. Any clean, white sand will do, source, whether the water be drawn by but it should be dampened with warm bucket, pumped by hand or by motor or water before the children play in it, be-Most generally, though, water cause it dries out and is dusty.

to be pumped by hand, not very com- get to make this play more interesting, mals and tiny dolls that cannot easily be But sometimes the well is rods away broken. Then the children can make from the house. Whether the supply be houses and barns of the sand or with a well or a spring, it may be down a hill blocks and small branches of evergreen or

When they are older many things can den on any woman, one really not to be be taught little children with the use of borne in patience, because it appears so the sand table. These the mother can learn by taking any teachers' primary



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### HALLOWEEN HINTS.

BY MAE Y. MAHAFFY.

There must be nothing said or formal about a Halloween party, the very nature of the day presupposing a time of rollicking fun and mystical happenings. ly light. Since it is the time given over especially to witches, hobgoblins, fairies, brownies, weird beings. Invitations adorned with a brownie may be used, or a witch riding her usual broom steed, a fairy, or some ghostly figure. The envelopes in which cut from black paper and glued into place. the invitations are enclosed should boast little stickers of similar design. brownie is cut out on the outer edge of will prove more attractive for the lettering than ordinary ink.

brations, unless one has a room contain- must, of course, remain in single blessedstunts may be tried out without fear of rolls around to again predict their fate. damage to rugs or furniture. Removing as many of these as possible is the next prove interesting. The hostess in advance best solution of the problem. Decorate writes the names of all guests on slips of in the customary cornstalks, pumpkin paper and places them singly in walnut lanterns, autumn foliage, strings of ap- shells, glueing these together again and ples, pop corn and cranberries, with sil- keeping the men's and girls' separate. houettes of black cats, howling dogs, bats, When ready to play this game the nuts owls, hobgoblins and witches, and here are placed in two basins of water, and and there gray paper spiders, stuffed with the men dip from the basin holding the cotton, with fine wire for legs, clinging girls' names, and vice versa, using a long to webs and made from twine.

are all in costume rather than in ordi- players have drawn each others names nary garb. Ghosts will have but little there seems every reason to expect a trouble in arranging sheets, with masks match from that quarter in the future, of muslin having holes cut for eyes, differing names bringing only unrequited noses, and mouths. Brownies should be affection. clothed in gray or brown, their caps being long and loose, something like a stocking cap, with the tip stuffed with cotton to make it stand out well. Extra hose drawn over their shoes, with long, tapering toes, also stuffed with cotton, will add to their quaint appearance. Fairies should have gauzy wings, and filmy white draperies, bespangled with gold and silver paper, and should carry gold or silver covered sticks for wands.

A witch's costume is not hard to manage. A black dress, or just a skirt, for the waist will be almost covered by the large black shawl, will provide the gown. The hat is made by cutting a large circle with a hole in the center sufficiently large to fit over the head. Then cut a triangular piece, roll it into a cornucopia-like shape, and fasten with glue or fine wire. It is then glued to the circle by slashing the base in several places to form tabs, this base being considerably larger around than the circle for the head. Bend the tabe outward and glue under the circle. Black pliable cardboard should be used for the hat, or it should be covered with thinner black paper. It may be decorated with gilt moon and stars, or have an owl or bat perched on the tip. A bunch of twigs tied to an old broom handle will represent the broom, and may have a cat or an owl perched on the handle. By staining the face and hands, wearing a wig of rope hair stringing down from under the broad rimmed hat, hiding one or two teeth with black court plaster, and talking in a thin, squeaky voice, or a deep, doleful one, a very fair imitation of a witch may be obtained.

The most appropriate table for an evening of this kind is one of boards placed on trestles, but any large table will answer. Long strips of white paper, which can be bought by the roll, will answer for table cloths for the trestle table in attic or barn, but if an ordinary diningtable is used one can buy the Halloween luncheon sets, or paste figures of cats, witches, etc., on the linen cloth. With the trestle table the wooden plates, and tin or paper cups will harmonize nicely, and may be decorated by glueing cut-out figures to the rims of the plates and the outside of the cups. Plain white china mugs and plates may have similar decorations.

terpiece will be a black kettle swung from a tripod of fagot brooms. This kettle may be surrounded by pretty foliage, and may contain favors, comprising wierd artificial bust. bugs, snakes, animals, etc., narrow rib- undersleeves bons running from these to each plate. Black tissue paper sprinkled with stars and moons may be tucked over the favors until the proper moment for their distribution.

Tiny cabbages prove ideal candle holders, scattered here and there over the ta- to Others may be made by cutting antic faces in rosy apples, oranges, turnips, potatoes, etc., and cutting a hole in

the top of each for the candle to rest in. | should be hung all Pumpkin lanterns about the room, while here and there an iron skillet or kettle, surrounded with leaves and twigs, and holding burning salt and alcohol, will emit a wierd, ghast-

Oddly shaped gourds of small variety, and tiny egg plants, hallowed out and ghosts, and elvan creatures generally, any lined with waxed paper, will provide nut scheme for amusement must include these or bonbon receptacles. The place cards may be plain cards with quaint figures, sketched in ink or water colors, or small black cats, owls, witches, and the like

To the usual time-honored games and fortune telling tricks may be added a few of later origin, such as, the pendant ring, the invitation, and his clothing is tinted Suspend a ring from the chandelier by a gray and brown. Gilt or bronze paint thread. Provide each guest with a pencil in turn, and allowing three trials, let each endeavor by walking rapidly from one A large attic, a barn or a huge kitchen side of the room to thrust the pencil are the ideal places for Halloween cele- through the ring. Unless successful they ing a fireplace, since all sorts of jolly ness, at least until another Halloween

The game of fearful names will also handled spoon. When all have secured Much more fun will result if the guests a nut they are opened, and if any two

> Household Editor:—I have been a reader of the Michigan Farmer for 25 years and do so enjoy the paper. Now I want to ask a few questions which I hope someone will kindly answer. Does anyone know how to make that lovely pulled candy you always see on the fair grounds? It is full of holes, the white is flavored with vanilla, the pink with pineapple and the brown with molasses. I can make many kinds but this is my favorite, and many kinds but this is my favorite, and I would like to know how it is made. Also, does anyone know how the cocoanut bar cookies and Mary Annes are made, which you buy at all the grocery stores?—An Interested Reader.

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See this number at your dealer: No. 00. Natural gray lamb's wool; composed of 96 per cent of white lamb's wool and 4 per cent of black Kentucky wool; not an ounce of cotton or adulterant used in its manufacture; no dye used, the coloring being black wool; one of the several STEPHENSON (Staley Brand) garments that no other mill attempts to duplicate; wears two to four seasons; comes from the tub as good as new; does not scratch; is soft and comfortable; Shirts or Drawers. Each, \$2.00

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JUST THE COAT FOR DRIVING WHEN IT RAINS

Face any storm in it and you'll return "Dry as No water can reach you even through the openings between the buttonsthat's where our famous Reflex Edges protect you by keeping out every drop.

Roomy, comfortable, and so well made that it gives the longest service.

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Are splendid for grinding small grain. No. 5, shown here, may be operated with 1 to 2<sup>1</sup>2 h. p. engines. Grinds fast and fine. Makes graham flour or corn meal. Larger mills for ear corn. Write for free catalog of complete line. The Star Manufacturing Co. 211 Depot St., New Lexington, O.



WANTED—A Practical Stock Man with \$1500 to 2000 to join me in Stock raising on the best grass and grain farm in Allegan County Mich., large barn and dwelling. I will fornish same amount cash. Address L. A. Ashback, 2712 Mildred Ave., Ohicago, Ill.

Just Say "Saw your ad. in the Michigan Farmer" when writing advertisers

CITIES ARE SEEKING BETTER MAR-KETING CONDITIONS.

Municipal Market at Lansing.

The municipal market of Lansing, lostreet, was opened Tuesday morning, Ocsing citizens appeared with baskets on carry on business from the wagons. their arms and crowded about the wagons eager to purchase the fresh vegetables.

weights and measures, assisted by patrolman, were in charge of the market ket, and commission men as an adjunct, and aided the farmers in placing their the producer would always find a ready used and found practically all of them plan would assist in developing the counfollowing Thursday morning, besides the It has been shown that Schoolcraft raises vegetables and fruit the women sold cook- just as fine fruit and vegetables as can a brisk demand. It is apparent that the should buy their supplies at home instead cheer. city market is popular with the produce of going long distances even outside the growers of Ingham and adjacent counties. Mayor Reutter has had the matter Ket in mind for a long time and is delighted with the outcome.

Flint Prepares for a Market.

The common council of Flint has voted to erect a concrete and steel market building on the city market site near the river on Smith street. The building will cost about \$7,000 and will contain "stalls" for loads of produce. The loads will stand on the concrete floor, backed up to the raised cement walk which will run through the middle of the market floor. Ruyers will use this walk in making purchases from the wagons. The city is also building on the market site a shed containing nine stalls which will accommodate two teams each, and a hay shed in seven sections, each of which will shelter be thrown open for convenience of farmers and city buyers when completed.

Pontiac Wants a City Market.

for a municipal market but have not selected the site for same as yet. A possible site on the west side of Clinton street is held by the owners at \$16,000 and Mayor Johnson favors starting condemcated at Grand avenue and Shiawassee nation proceedings. Conversion of Mill street between Lawrence and Pike streets tober 7, and upwards of 60 farmers, with into a market place is also favored, with wagons loaded with produce, were on hitching posts placed along the street hand before six o'clock. Soon many Lan- where farmers may tie their horses and

Manistique Needs a Market. The needs of Schoolcraft county in the way of a city markett at Manistique are The mayor and several city officials being agitated. Under present conditions were there early to see exactly how it as the Pioneer-Tribune of that city says, worked and they were well pleased over farmers must peddle their product about the showing. A. P. Rogers, sealer of town and take the stuff home again when they do not sell out. With a city mar-They inspected the measures outlet for what he had to sell, and this correct. When the market opened the try more quickly than any other agency. cake and buns, for which there was be found in the state, and business men

> Kent Co. A. GRIFFEN.

### HANDLING PERISHABLE PRODUCTS.

The value of the poultry and eggs used in a year in the United States is about \$750,000,000. About 10 per cent of these products produced on the farm are lost on account of decay before they reach the consumer. That means an annual loss of \$75,000,000 in this one industry. There are similar losses in other perishable food industries. The desirability of reducing these losses to a minimum is evident. They have been reduced to a considerable degree, due to improved methods of transportation and handling. People who do not produce anything edible at all are crowded into cities. The two loads of hay. These buildings will farmer must feed them. Getting perishable foods to the city consumer is a vast and important problem. The United States Department of Agriculture is doing much Pontiac city officials are making plans to improve the handling of such products

so as to reduce losses. And the predictions of the weather bureau as to whether it is going to be safe to ship products that would be spoiled if they were to become frozen have helped a great deal.

A good example of beneficial government aid is to be found in the case of the California citrus fruit industry. Ten years ago California oranges and lemons were in little demand by eastern fruit dealers. This was because of the high percentage of decay. The growers blamed many things for this rotting. Then the government took it up and after study found that mechanical injuries to the skin of the fruits permitted the entrance of spores of blue mould and that this mould caused the decay. The growers gloved the hands of the fruit pickers, changed the construction of the clippers, put springs under the wagons and in other ways protected the fruit skins. there is little decay and eastern cities in this country, and even cities in England, prefer Califoria oranges and buy millions of them. The Department of Agriculture has also helped to make peach growing a great industry for the south. They are now shipped in good shape to the north. Proper handling with the aid of refrigeration has succeeded in getting Oregon raspberries as far east as Minneapolis in good order. The same government workers have made it possible to keep American grapes to add to our Christmas good

Transportation of perishable products becomes more and more important as the territory which must be drawn upon to feed our large cities becomes wider and wider. Eastern cities such as New York draw upon Georgia for peaches, Texas for onions, Washington for fish, Iowa for eggs and California for fruits. Although Michigan and Ohio have many large cities of their own to feed many of their products go east. Each product, from milk to watermelons, presents problems of its own. Refrigeration is probably the most important generally used help. The loss in each industry varies; in many it is being markedly reduced and study is going to mean reduction for others. Stopping to think about it all, it fills me with wonder at the fact that the loss is so

Ohio. E. J. CRANE.

### THIS MAY BE AN OPPORTUNITY

If you are perfectly satisfied with the tests returned by your milk or cream buyer, our free testing service will not appeal to you; but if not you should join the crowd to learn if your buyer is giving you a "square deal."

The testing of milk free of charge is a special advantage offered Michigan Farmer subscribers.

The directions are very simple: Put sample of milk or cream that is satisfactory to you and the buyer, in widemouthed bottle, enclose bottle in mailing case and send by parcel post to Michigan Farmer Laboratories, 674 Woodward avenue. Detroit, Mich.

If you cannot provide bottle and mailing case, we have arranged with a large concern to provide a mailing case for six cents and a case and bottle for ten cents in stamps. When asking for mailing cases and bottle address Michigan Farmer, Detroit, but in sending the sample of milk be sure to address it to Michigan Farmer Laboratories, 674 Woodward avenue, Detroit.

Note.—If five cents in stamps are sent with each sample of milk or cream, for covering postage, your mailing case and bottle will be returned.

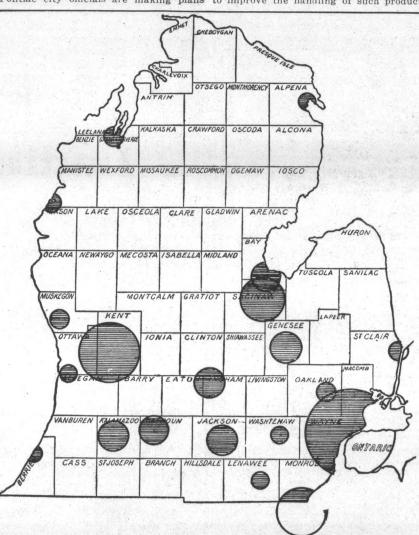
### A SUCCESSFUL SEASON

The first year of the reorganized fruit exchange at St. Joseph, Mich., is proving very successful. It is estimated that the exchange will handle between 250 and 300 cars of grapes this year, which is about 25 per cent of a normal outputt, the crop having suffered heavily from frost last spring.

A year ago 756 cars were loaded from this district, while in 1911, 1,150 cars were sent out, the latter year being the banner one in the history of the district.

Returns this year have been very satisfactory in spite of the short crop. The season is closing with basket selling at 20c, after having dropped from the opening price of 19c, down to 15c.

Care has been exercised in preparing the grapes for marketing. The state law and the rules adopted by the exchange on inspection and grading have been rigidly enforced. This has added to the benefits coming from the exchange, buyers being much please with their purchases.



The above map of lower Michigan shows 20 centers of population having over 10,000 people. The shaded circles are drawn to represent the probable territory from which the city residents draw supplies that are sold direct from farmers' wagons. There is an awakening interest in city markets, both on the part of consumers and producers, and as a result of the agitation councils of many cities have recently provided for markets while the fathers of other cities are contemplating ordinances making such provisions. In these columns we shall give these markets special attention during the coming year.

## Crop and Market Notes.

Maine.

Waido Co., Oct. 14.—Fall rains have changed the season from summer to autumn. Leaves are falling and indications point toward an early winter in Maine. The sweet corn crop in this section, owing to a backward spring, dry season, early frost, was fully 50 per cent below the average. The potato crop is well under way in harvesting, with a crop well up to the average. Some poorer pieces are only yielding about 160 bushels per acre while some extra good fields are producing nearly 400 bushels per acre. Potatoes fresh from the field are selling for 40c a bushel. The apple crop will be less than 50 per cent of the 1912 crop and very poor quality at that, but prices will bring out quite a good many barrels if not very choice fruit. Fresh eggs sell for 38@42c per lb. print.

New York.

New York.

New York.

Columbia Co., Oct. 11.—Dry weather hit eastern Columbia county bad and the damage was increased by early frosts. Prices are bound to work high for consumers this winter. Butter 40c; eggs 40c; apples \$1.50@2.50; potatoes \$1@1.25 retail.

Columbia Co., Oct. 9.—The drouth was broken Sept. 22, when one and three-fourths inches of water fell. Have had two good rains since. Pastures are revived and rye has been sown in good condition; wheat is little grown in this county. Many farmers are marketing their hay and straw; timothy hay and rye straw are selling at \$18 a ton; oat \$15; corn is \$1.10; oats 60c; butter \$2c; eggs 36c; cabbage scarce, selling at \$2 a bbl; onions and potatoes \$1 a bu; apples \$2.50@3 per bbl. @3 per bbl.

Pennsylvania.

Pennsylvania.

Mifflin Co., Oct. 13.—The drought has been broken. Pasture is good. Wheat is looking good. Grain yielded fairly good, wheat going from 20 to 30 bu. to the acre; oats 30 to 50 bu; corn 25 to 50 bu. Prices: Wheat 85c; oats 40c; new corn 70c; hay \$14 per ton; eggs 27c; butter 30c; apples \$1 per bu; potatoes 75c.

Chester Co., Oct. 17.—Weather has been fine for the fall work. Corn is about all cut, but not much husked yet. Some wheat to sow yet. Considerable damage done by fly to the early sown wheat last year had a tendency to make sowing later this-year, with some farmers. Farm products are selling for good prices throughout this section, and it looks as though they would go higher. Potatoes 80c per bu; wheat 87c; corn 90c; hay \$12 \$20.50 per ton; wheat straw \$8 per ton; oats 45c; eggs 40c; milk 4½@5c per qt.

Ohio.

Ashtabula Co., Oct. 16.—Weather is cooler with frosts. Corn is all in shock. Farmers digging potatoes and threshing buckwheat which is a light crop. Potatoes rotting quite badly. The continued wet weather has much delayed bridge work, there being three large bridges yet to be completed that were destroyed by the spring flood. Dairy butter 30c; beef, dressed, 8@10c; pork 12c; eggs 30c; oats 40c; wheat 90c; portatoes 70@75c; onions \$1 per bu.

Highland Co., Oct. 7.—Weather is fine;

dressed, 8@10c; pork 12c; eggs 30c; oats 40c; wheat 90c; potatoes 70@75c; onions \$1 per bu.

Highland Co., Oct. 7.—Weather is fine; extra warm and dry. Corn is all cut and an average crop. Wheat sowing is the order of the day, about the usual amount being sown. A good many silos have been built and filled. Hay rather scarce and selling at about \$12 per ton. Hogs are scarce and high. Potatoes scarce, almost a failure. A good many summer and fall apples, but winter apples did not do well.

Fairfield Co., Oct. 11.—Corn is all cut and is about a half crop. Wheat seeding is about completed and the earlier sown fields are coming up nicely. The wheat crop for this year was very good in this section. The fruit yield was very light. Potatoes showed a small crop. Cloverseed is running well but the acreage is small. Cabbage, sweet potatoes and pasture are good. Wheat is selling at 90c per bu; oats 40c; corn 55c for new and 80c for old; apples \$1 for picked and about 50c for wind-falls; peaches yielded light and are selling from \$1.25@2.40 per bu. Hogs are 8c, which is lower than recent prices. Milch cows rule from \$50@75. Hens are about 9c; young chickens 15c; turkeys very scarce and none are offered for sale at this date. Eggs 25c per dozen; butter 30c; potatoes \$1.0; sweet potatoes \$1.

Columbiana Co., Oct. 11.—The month started in with plenty of rain and it has been nice and warm every day. Farmers are having a good chance to get their fall work done. Quite a good many have been husking corn but in some places it is hardly dry enough to crib. The potatoes that were caught by the frost a couple of weeks ago have mostly been dug but yielded a poor crop. There have been several sales around here and things seem to bring good prices, especially cows. Prices are from \$70@90 for common grade cows. Butter 30c; eggs have raised to 32c; potatoes have been selling for 80. Warren Co., Oct. 15.—Weather has been favorable for wheat sowing, and an av-

raised to \$2c; potatoes have been selling for \$0@85c but quite a few are holding for \$1.

Warren Co., Oct. 15.—Weather has been favorable for wheat sowing, and an average acreage is being put in. A small amount of rye is being sown. On Sept. 23 a killing frost occurred which did damage to late corn. Clover hulling is practically done. The acreage was large and the yield good. Seed is selling at \$5 per bu. Corn husking and shredding will begin next week. Hogs will be marketed early because of a short corn crop. Hog cholera is reported in almost every neighborhood. Local prices: Corn 70c; wheat 92c; apples \$1.25; potatoes \$1: sweet potatoes \$1.75; butter 27c; eggs 27c.

Harrison Co., Oct. 13.—We have been having a beautiful fall, and farmers are getting their work well along. Clover is about hulled and the yield is the best for three years. Apples are all picked and proved a very light crop. Sales are being

held almost every day and stock of all kinds selling high. Wheat is getting a fine start, it almost covering the ground now. We are trying alfalfa on the hills of Harrison county, and are having success where we are following instructions. Farmers are hauling coal and getting ready for winter. Wheat 90c; corn 80c; potatoes \$1; eggs 28c; butter 30c. Weather coal at present. cool at present.

ready for winter. Wheat 90c; corn 80c; potatoes \$1; eggs 28c; butter 30c. Weather cool at present.

Indiana.

Davies Co., Oct. 14.—Only two very light frosts have occurred up of date, not enough to injure late crops. We now have considerable garden stuffs such as green beans, cabbage, potatoes, tomatoes, more than at any time during the summer. We had several good rains about the middle of September which came in time for late crops of all kinds. Pastures are getting good, late corn doing well; fall sown grass and wheat look well. Our 50 per cent corn crop of August has jumped up to about 75 per cent. Late crops will also help out much. Corn cutting done and shredding has begun. Shredders will reap a great harvest this year. More corn has been cut and more wheat sowed than ever before. But a large part of our live stock has disappeared. New corn selling at 70c; milch cows are scarce, \$50@100 apiece; potatoes \$1.30 per bu; wheat 90c; butter 30c; eggs 30c; chickens 10c per lb; good hay \$15@18 per ton; timothy seed \$3.50 per bu; clover seed \$702 per bu. We are having the very best of fall weather, just an occasional shower since the heavy rains, and plenty of warm, sunshiny weather. Ideal conditions for getting fall work done.

Wayne Co., Oct. 14.—We have had extremely warm weather here this month until the 11th, when we had a shower, followed by a frost. A large acreage of wheat has been sown which is suffering from dry weather. Corn is drying very fast and some farmers are cribbing it. The yield will be heavy. The apple crop is good but not much demand for them. Good apples are selling for 60@75c per bu. Hog cholera is prevalent in some sections of the county, causing great loss. Jay Co., Oct. 18.—No hog cholera in our county reported up to date, but a case is reported on the line in Adams county. Farmers are worried and are trying to guard against the spread of the disease. Clover seed is practically all hulled, a magnificent yield for the farmers this year. Potato crop scarce, selling for \$1 at stores now. App

in years.

in years.

Perry Co., Oct. 6.—Farmers are rushing their work here, sowing wheat and grass seed, also harvesting stock peas. All crops are short except wheat. We only had two good rains during the summer months but have been having about enough during September and October. The thermometer reached 82 degs, today and we are having fine weather. Only had one light frost which did not damage. Had sweet corn, lima beans and

and we are naving line weather. Only had one light frost which did not damage. Had sweet corn, lima beans and tomatoes fresh from garden for dinner today. Eggs 25c; butter 25c; good apples 40; pears \$1; cabbage 5c lb; potatoes \$1.20 per bu; live geese 12c lb; hens 10c; young chickens 12c.

Wisconsin.

Waushara Co., Oct. 14.—Very favorable weather has prevailed this fall. Potato digging is now the order of the day and the crop is fairly good. Farmers are holding a very large per cent of the crop for larger prices, the dealers now paying 50c per bu. Comparatively little wheat is sown here. Rye is up fine. Fall pastures are good. Prices: Oats 22c; rye 58c; wheat 90c; barley 65c. Live pork is 8c; veal 10@12c dressed; beef 4@6c per lb. Navy beans, hand-picked, are \$1.90 per bushel.

Polk Co.—Abundant rains and unusually warm weather for the last 30 days has resulted in an exceptional growth of pastures. Considerable rye was sown for pastures, and wheat also promises well. The retail price of feed has decreased 10 per cent since the September rains, and buying and selling of live stock has received an impetus. Wheat selling at 83c; corn 75c; hay \$16; hogs 7½c; eggs 15c; butter 20c. Seeding of wheat has progressed without hindrance, and the acreage will be an average, condition 100 per cent.

gressed without hindrance, and the acreage will be an average, condition 100 per cent.

Phelph Co., Oct. 14.—Have had good rains this fall and most all farmers have sown all their wheat, there has been a large acreage sown this year. They are sowing a great deal of rye for winter pasture. Having lots of good pasture now. There was about a two-thirds corn crop raised. Live stock sells high.

Kansas.

Cloud Co., Oct. 16.—A general rain has been falling over this part of the state, and was preceded by local showers. The moisture will improve fall grains, and wheat is in splendid shape for the winter. It is safe to say that this county will have nearly twice the usual amount of wheat another season, and the present favorable weather gives promise of a big crop next year. The grain is now bringing 78c per bu; corn 75c. None of the latter grain is going to the elevators, feeders absorbing it all. Oats 50c per bu. Pastures are improving rapidly, and live stock will go into winter quarters in excellent conditon. As a result of improved pastures, feed is declining in value. A large amount of cattle from other sections is being brought here for winter feeding. There are over 500 silos in this county, all of which are filled this fall. Corn fodder is about all cut. Cane and kaffir corn are being left until frost; these crops will make good fodder, but the seed will not get ripe unless frost holds off very late. Cattle and hogs are advancing in price, while horses and mules are lower, good 1,000-lb. mules now selling below \$100.

Trego Co., Oct. 15.—Wheat sowing is about finished. What wheat is up is

On Trego Co., Oct. 15.—Wheat sowing is bout finished. What wheat is up is (Continued on page 374).

# AUCTION SA

Wednesday, Oct. 29, 1913, 1 o'clock, P.M.

Nostrand Herd of

## 25 JERSEY COWS, Grades & Thoroughbreds, and 1 JERSEY BULL On Nostrand Farm

 $2\frac{1}{2}$  miles north of Grand River Ave., on the Evergreen Road,  $3\frac{1}{2}$  miles North and East of Redford Village, Wayne Co. Prospective purchasers from distance desiring to take interurban will be met by auto at Grand River Ave. and Evergreen Road, between 10 and 12 o'clock.

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

ELMER C. STARKWEATHER, Proprietor.

### Hereford Calves 1000 Will be PUBLIC SALE on Our sold at PUBLIC SALE Farm

Third Annual Mule Colt Show will also be held. Will self Thirty Big Broke Mules and a few horses, among them six combined and broke to all sights and safe. ATTEND THE SALE. Mule Sale commences at 10:30 a, m. All stock loaded on cars free

THE CALVES are an extra lot, fat and of fine quality of the ZIH brand raised in Eastern Colerado. They will, be sold in ear load lots; steers and heifers separately. Come and see the best lot of calves ever offered Tallula, Illinois

## Dispersion Sale.

Reg. Percheron Horses and Holstein Cattle of A. H. DARLING. of Onondaga, Michiga WEDNESDAY, Oct. 29,1913

On account of failing health I will sell st auction 30 head of horses and 24 head of cattle. One imported Stallon: 1 black 3-year Stallion: 2 yearling S alliors: yearling S alliors: yearling Stallion: 3 fair Percheron Mares, supposed to be in foal: 1 black 4-year-old Mare, safe in foal: 1 Filly and 20 Grade Mares and Colts. 5 registered Cows, new milch; 1 registered 2-year-old Heifer, fresh soon; 4 Reg. Heifer Calves and 12 high grade cows
Take electric car to Rives Junction from Jackson. A H. DARLING, Prop. D. BULLEN. Auctioneer.

## Pay No More Than Wittes Price

Get my latest Reduced Factory Prices, and my great new Free Book before you buy any en-gine. Be your own dealer, and make all middle men's profits. I quote you direct, under all other good engines and save you half the usual prices.

# WITTE Engines GASOLINE, GAS, AND KEROSENE

84 styles and sizes, 11/2 to 40 H.P. Standard for 27 years. Recommended by users in all parts of the world, Use kerosene and other low grade fuels, besides gasoline and gas. Cheaper power. No watching. No Cranting to Start. Electric apparatus insures easy starting. Continuous running, summer or winter, day and night, if necessary.



## FOR SALE

5000 White Pine hot bed sash, sizes 3ft, 6in. x 6ft., bottom rail lin. x 4½in., top rail 1½in. x 3½in., stiles 1½x 33½, muttom 1½x 13; 44 D. S. glass 6x 7½in. Price in lots of 25 1.25 each. These sash were built to a contact 35.50 each in car-load lots. 25.000 square feet second hand. 22 guage corrugated iron measuring 25in. x 9ft. and 26in. x 10ft. at \$1.10 per square. 10,000 squares 1-ply rubber roofing, with nails and cement, 56e ner square.

Squares 1-ply rubber rooming, with hans and company, 59c per square.

Buffalo House Wrecking & Salvage Co., Buffalo, N. Y.

## MAPLE SYRUP MAKERS!

The Grimm Evaporator catalogue and state number of trees you tap.

GRIMM MANUFACTURING CO. 169-621 Champlain Ave., N. W.. Cleveland, Ohlo,

### The Largest and Best Line of SHEPHERD PLAID SKIRTS

Delivered to your door by parcel post prepaid at manufacturer's prices. Skirts well made and guaranteed in every particular. A light weight skirt for \$2.50: heavy weight \$3. Exactly the same as retail for \$5 and \$6. Money back if not perfectly satisfied. Send at once for free samples of goods to select from and blanks for measurement. THE DETROIT SKIRT WORKS
501-502 Hodges Bldg., Detroit, Michigan,

WHY NOT HAVE BEST LIGHT ? Steel Mantie Burners. Odorless
Smokeless. Make coal oil produce gas—3
times more light. At dealers or prepaid by
us for 25c. AGENTS WANTED. Steel Mantle Light Co.330 Street Toledo, O.

LEARN AUCTIONEERING at World's Greatest School and become Independent with no capital invested. Winter term opens December 8th—following International Stock Show. Write teday for free catalog. JUNES NAT'L SCHOOL OF AUCTIONEERING, 18 N. Sacramento Blvd., Chicago, III. CAREY M. JONES 'Pres.

Farm Wanted Want good Improved 40 acres in Eastern portion of State. Must be a Bargain. Will pay cash. Address, CHAS. DERRICK, R. No. 2, Fremont, Mich.

For Sale or Exchange for a farm or good income acres and two good houses. For particulars address owner. OHARLES LEE, North Star, Michigan.

## Farms and Farm Lanus For Sale

100 Acre Farm—Half mile from Milford, Mich. sixty-five hundred. Address, B. B. CLARK, Milford.

For Sale—In whole or part, 320 acre Southern Michigan farm. Good soil, buildings and fences. \$80 per acre. O.S. Schairer, 214 Dewey Ave., Swissville, Pa.

MICHIGAN Potato, Fruit and Dairy Farms at Prices and Terms to suit Purchaser. Write for free litera-ture. ANDREWS & TUCK, Sidney, Michigan-

BUY NEW YORK FARMS NOW. Best lands, best crops, best homes, biggest barns. Finest schools, churches and roads. For list, address McBurney & Co., 703 Fisher Bldg., Chicago, Ill.

Beautiful Poultry & Truck Farms with nice homes, near Bichmond. Send for our list, We have just what you want. Address Casselman & Co., 1018 East Main St., Richmond, Va.

MICHIGAN FARMING LANDS Near Saginaw and Bay City, in Gladwin and Midland Counties. Low prices: Easy terms: Clear title. Write for maps and particulars. STAFFELD BROTHERS, 15 Merrill Building, Saginaw, (W. S.), Michigan,

Ferfile Farms and unimproved lands in Delaware, diversified farming, live stock, delicious fruits and ideal homes. For information address. State Board of Agriculture, Dover, Delaware,

Ogemaw Co., Mich., Cut Over Hard Wood Lands. Adjacent to Bose City on D. & M. R. R. for sale cheap. For particulars address.

JOCOB SCHWARTZ, Saginaw, Michigan.

McClure - Stevens Land Co. Successors to A. J. Stevens & Co. Established 1883.
Farm, Fruit and Stock Lands. We own 20,000 acres of choice unimproved lands in Gladwin and Clare counties. Sold on easy payments. Interest 6 percent. Write for information.
Gladwin, Michigan.

# FINE DAIRY FARM

Of 160 acres near Morenci, Mich., well watered, fenced and tiled; strong clay loam upland and rich bottom land; double house, good barns and outbuildings; on main road, telephone and rural route, pleasant location two miles from the best small town in Michigan. Terms, \$100 an acre, part down, balance long time at 65. Write or call on C. A. WILSON, Agent, Morenci, Michigan

Widow will Sacrifice for Immediate Sale 12-room house, good, plastered, papered, good condition; large barn, hen house, wood house, tool shed. Apples, pears, plums, grapes. 1½ miles to railroad town. \$1700, part cash. Hall's Farm Ageaucy, Owego, Tloga Co., N. Y.

MARYLAND Money-Making Farm for Sale. 87 acres, 40 acres clear, balance wood, nice shade, barn and other outbuildings, 600 peach trees, 80 apple trees, 850 grape vines, 8 years old, 18 acres corn, 2% acres strawberries, 1 horse, wagon, cart, harness, 3 plows, 2 cultivators, 2½ miles to Halfroad Station and town near school and church, free delivery. All included for \$2500. E. B. FIGGS, Real Estate Broker, 2II N. Division St., Salisbury, Md.

For Sale For Cash—Good paying fruit and than a mile from Flist, Mich. Modern 4-room bungaliw, barn, chicken house, outside cement cellar, well and cistern. Buildings all new. 300 peach trees beginning to bear, also plums, cherries, raspberries, grapes and strawberries. \$400. Sold with horse, chickens, farm implements, furniture and crop. Short walk to car line. Quick sale—move right in. Reason for selling—failing health. T.E. HANSEN, Flint, Mich., Atherton Road East. R. F. D 1.

# Markets.

### GRAINS AND SEEDS.

October 21, 1913.

October 21, 1913.

Wheat.—During the past week values have declined to a lower level, although on Monday there was a slight reaction from the lowest point reached. Crop and market news would appear to indicate that prices have now reached about their lowest figure, the market being supported by news of crop failure in India and drouth in South America. Farmers in America are also very slow about marketing this grain, both in the winter and spring wheat districts. On about marketing this grain, both in the winter and spring wheat districts. On Monday deliveries of spring wheat were 1,584 cars short of the deliveries for the corresponding Monday in 1912 and winter wheat receipts were less than one-half those of a year ago. The bearish influences consist largely of a lack of demand for cash wheat, and the anxiety of Canadian dealers to get their holdings affoat before the shipping season closes. One year ago the price for No. 2 red wheat was \$1.10 per bu. Quotations for the past week were:

No. 2	No. 1		
Red.	White.	Dec.	May.
Wednesday93	93	941/4	981/4
Thursday92	92	93	9634
Friday91	91	92	95%
Saturday91	91	92	95 34
Monday911/2	911/2	921/2	961/2
Tuesday9134	913/4	823/4	9634
Chicago, (Oct. 20)	No. 2	red	wheat.
044/ 000 - T - 004/ -	3.5	0041	

91½@92c; Dec., 83½c; May, 88½c per bu. Corn.—In spite of the decline in wheat values, corn prices have held steady and values, corn prices have held steady and strong since a week ago. Everyone is aware of a short crop, and while this knowledge will cause a general substitution of other grains for corn, it nevertheless makes high prices for the cereal inevitable. Many sections that usually are exporters will not only not have any for sale this year, but will actually be importers of the grain. One year ago the price for No. 3 corn was 64½c per bu. Quotations for the week are: Quotations for the week are:

	NO.	.2	NO. 2
	Mix	ed.	Yellow.
Wednesday		711/2	721/2
Thursday		711/2	721/2
Friday		71	72
Saturday		71	72
Monday		711/2	721/2
Tuesday			721/2
Chicago, (Oct. 20)			681/4 @
681/c: No. 3, 68@683/c:			

	Blandard.	AA III CO.
Wednesday	421/4	411/4
Thursday	411/4	41
Friday	403/4	401/4
Saturday	411/4	403/4
Monday	411/2	41
Tuesday	41%	411/4
Chicago (Oct. 20)	No. 2 white	oats,
40c; standard, 39@40c;	Dec., 381/8c;	May,

Beans .- Transactions in this department have been carried on at a higher figure the past few days, cash beans for immediate and prompt shipment being quoted at \$1.95 per bu., Oct. \$1.95, and January \$2.

Chicago, (Oct. 20) .- Market steady with light arrivals; supply almost entirely in the hands of dealers. Pea beans, hand-picked, are quoted at \$2@2.10 per bu; common \$1.50@1.75; choice red kidneys \$2.45@2.50, and white kidneys, nominal,

Rye.-Quotations for this cereal have

Rye.—Quotations for this cereal have advanced a cent during the week. Cash No. 2 is now quoted at 69c per bu. The market is dull. At Chicago the price for the same grade is 64½@65c.

Barley.—Barley sales were closed at Detroit at \$1.55 per cwt. The cereal is quoted in Chicago at 48@82c per bushel. according to quality, and in Milwaukee malting barley is bringing 64c per bu.

Cloverseed.—This market is steady. Although in some sections, particularly in the southern counties of Michigan, Ohio and Indiana, there is an excellent yield of seed, in other sections the yield is only fair and the acreage very small. These influences so balance as to keep prices about steady. Prime spot is quoted at Detroit at \$7.80 per bu; Oct. and Dec., \$7.80; March, \$7.90; October alsike, \$10.25 March, \$7.90; October alsike, \$10.25

Alfalfa Seed.—Prime spot is quoted at

\$7.25 per bu.
Timothy Seed.—A small advance is noted in this seed, prime spot selling at \$2.45

### FLOUR AND FEEDS.

Flour.—Jobbing lots in ½ paper sacks are selling on the Detroit market per 196 ibs. as follows: Best patent, \$5.40; second. \$5.10; straight, \$4.90; spring patent, \$5.10: rye flour, \$4.60 per bbl.

Feed.—In 100-lb. sacks. Jobbing lots: Bran. \$25; coarse middlings, \$27; fine middlings, \$27; cracked corn, \$31; coarse corn meal, \$30; corn and oat chop, \$26.50 per ton.

per ton.

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

17.50; No. 2, \$15@16.

New York.—Prices rule about steady. Large baled, No. 1 timothy, 22; standard \$20.50; light clover mixed, \$19@20; heavy mixed, \$16@18 per ton.

Straw.—Detroit.—Steady. Rye, \$8@9; wheat and oat straw, \$7@7.50 per ton. Chicago.—Quotable higher as follows: Rye, \$8@9; oat, \$6.50@7; wheat, \$6.50@7. New York.—Steady. New rye straw, \$19@20 per ton.

### DAIRY AND POULTRY PRODUCTS.

Butter.—Butter of good quality is firmer than a week ago, top grades showing some advance in some markets. Creameries are quoted at 1c lower in the local market, but are very steady, while dairies and packing stock remain unchanged. Quotations now are: Extra creamery, 30c per lb; firsts, 29c; dairy, 23c; packing stock, 21c per lb.

Elgin.—Market firm at 29½c per lb.
Chicago.—Extra creamery is up ½c under a good demand which also extends to the cheapest grades. Medium qualities barely steady and rather hard to move. Packing goods easier and fractionally lower under increasing offerings. Quotations are: Extra creamery 29½c; extra firsts, 27½@28c; firsts 25@26c; seconds 24@24½c; ladles 23½@24c; packing stock 22c.

onds 24@24½c; ladles 23½@24c; packing stock 22c.

New York.—Both creameries and dairies have made a good advance, the better grades showing the greatest gain. Packing stock ½c lower. Quotations are: Creamery extras 31½@32c; firsts 28@30½c; seconds 25½@27½c; state dairy, finest, 30@31c; good to prime 27@29c; common to fair 24@26c; packing 20½@32¾c as to quality.

Eggs.—The egg situation shows little change from last week, good stock commanding outside figures at all points. Light receipts are giving the local market a very firm tone but quotations remain unchanged. Current offerings candled, quoted at 27c per dozen.

Chicago.—With receipts showing a gradual decline this market is very firm, fresh laid and fresh gathered stock selling readily. Firsts are quoted ½c higher. Quotations: Miscellaneous lots, cases included, 17@25c, according to quality; do cases returned, 16½@24½c; refrigerator stock in fair demand at 23½@24c for April firsts.

New York.—This market is firmer the

10@11c; turkeys, 17@18c; geese, 13@14c; ducks 15@16c.

Chicago.—Supply ample, making discrimination against poorly finished stock possible. Turkeys are noticeably lower, due to limited demand. Chickens are about steady, while ducks of good quality are quoted 1c higher. Quotations on live are: Turkeys, good weight, 17c; others 12c; fowls, general run 18½c; spring chickens 13½c; ducks 13@14c; geese 8@13c; guinea hens \$4@6 per dozen.

Cheese.—Steady to firm at last week's figures. Wholesale lots, Michigan flats, 15@15½c; New York flats, 17@17½c; brick cream, 17@17½c; limburger, 14½@15c.

Veal.—Rather scarce in the local market. Demand moderate. Quotations are: Fancy 12½@13c per lb; common 10@11c. Chicago.—Steady to firm; condition of market improving. Quoted as follows: Fancy 15c per lb; good to choice 90@110 lbs., 13½@14½c; fair to good 60@90 lbs., 11@13½c.

11@13½c.

### FRUITS AND VEGETABLES.

Apples.—Supply is about as large as last week. Good grades rule from \$2.50@ 3.75 per bbl. At Chicago values rule from \$2.50@ 5.25 per bbl., No. 1 Jonathan's selling best. Bulk apples are in best demand now owing to activity of peddlers.

Grapes.—In 8-lb. baskets sales are made at 25@26c. At Chicago the market is fair with receipts small. General quotation, 25@29c for 8-lb. baskets.

Pears.—Fair supply and selling at \$1.25@\$1.50 per bu. for Bartletts. Duchess at \$3.25@3.50 per bbl.

Potatoes.—Although the trade seems dull just now and prices are unchanged from last week, there is a common opinion that values are destined to go higher. Quotations: In bulk, 60@65c per bu; in Apples .- Supply is about as large

Quotations: In bulk, 60@65c per bu; in sacks, 65@70c per bu. At Chicago trade rules higher. Receipts last week were smaller. The demand is good, with Michigan stock going at 65@70c.

Cabbage.—Steady at last week's figures. Good quality quoted at \$2@2.25 per bbl.

1 timothy, \$16@16.50; standard, \$15@15.50; are firm at 75c@\$1.50, the majority of the No. 2, \$14@14.50; light mixed, \$15@15.50; offerings being poor in quality. Pears No. 1 mixed, \$18.50@14.

Chicago.—Offerings liberal and demand fair with prices lower. Choice timothy quoted at \$18@19 per ton; No. 1, \$16.50@ 17.50; No. 2, \$15@16.

New York.—Prices rule about steady. Large baled, No. 1 timothy, 22; standard \$20.50; light clover mixed, \$19@20; heavy mixed, \$16@18 per ton.

### THE LIVE STOCK MARKETS.

Buffalo.
October 20, 1913. (Special Report of Dunning & Stevens, New York Central Stock Yards, East Buffalo, New York).

Receipts of stock here today as follows: Cattle 250 cars; hogs 125 double decks; sheep and lambs 65 double decks; calves 1000 head.

With around 250 loads of cattle on our

sheep and lambs 65 double decks; calves 1000 head.

With around 250 loads of cattle on our market here today, and 19,000 reported in Chicago, our cattle market was very uneven. Cattle with good quality and finish, weighing from 1.300 to 1,450 lbs. selling from 5@10c lower than last Monday. The handy weight butcher cattle that showed good finish and good heifer stuff selling from 10@15c higher than last week. Cow stuff about steady, except trimmers, which sold some lower. The cattle that was anyways off in quality or lacked finish sold 10@15c per cwt. lower. At the close of the market there was about a dozen loads left over, mostly weighty cattle.

We quote: Best 1350 to 1450-lb. native steers, \$8.50@8.75; best 1200 to 1300-lb. do, \$8.25@8.50; best 1100 to 1200-lb. do, \$8.8.8.25; coarse and plain weighty steers native, \$7.25@7.50; best Canada steers 1350 to 1450-lbs., \$7.85@8.25; do 1150 to 1250, \$7.25@7.75; choice handy steers, 1000 to 1100, \$7.75@8; fair to good steers, 1000 to 1100, \$7.75@8; fair to good steers, 1000-lb. steers, \$6.25@6.75; best cows, \$6.25@6.75; butcher cows, \$5.65; cutters, \$4.25@4.50; trimmers, \$3.85@3.90; medium butcher heifers, \$4.60@7; best heifers, \$7.50@7.75; stock heifers, \$4.4.25; best feeding steers, \$7.07.25; fair to good do, \$6.25@6.75; common stock heifers, \$4.4.25; best feeding steers, \$7.07.25; fair to good do, \$6.25@6.75; common light stock steers, \$5.05.25; a best butcher bulls, \$6.50@7; best heifers, \$7.50@7.75; stock bulls, \$5.05.50; best milkers and springers, \$70@80; common to good do, \$50.060.

We had a liberal supply of hogs today and a slow market at the start; prices generally 5@10c lower. Few hogs sold at \$8.60, but the bulk landed around \$8.50. pigs and lights \$7.75@8; roughs \$7.50@7.75; stags \$6.50@7.50.

The sheep and lamb market was active today; prices on lambs quarter higher than the close of last week; most of the choice lambs selling from \$7.65@7.75. Sheep market steady. Look for lower prices on lambs the last of the week as we are too high compared with oth

Chlcago.
October 20, 1913.
Cattle. Hogs. Sheep.
Received today .....17,000 40,000 50,000
Same day last year. 24,296 34,454 57,403
Received last week. 50,718 141,320 167,883
Same week last year. 65,949 116,637 147,392
The late slump in prices caused the receipts of cattle to fall off sharply today, and the better class sold about a dime higher, others ruling firm. Receipts embraced 42 cars of good cattle from Alberta. Hogs were active at an average decline of 5c, sales ranging at \$7.65,850.
Hogs marketed last week averaged 210
lbs., compared with 217 lbs. a month ago, 226 lbs. a year ago, 222 lbs. two years ago and 257 lbs. three years ago. Sheep and lambs were in good demand today at former prices, and the best lambs went a little higher, prime range lambs bringing \$7.30. Receipts were largely from Monlittle higher, prime range lambs bringing \$7.30. Receipts were largely from Mon-

\$\frac{1}{3}\$. Receipts were largely from Montana. Cattle prices were on the down-grade most of last week, because of increasing freely towards marked worth \$\frac{7}{2}\$. Oper cwt; hene \$\frac{6}{5}\$ per bu; oats 43c; but most of last week, because of increasing all cegss 20c; hay \$\frac{9}{9}\$ per receipts at a time when the general requirements of buyers were not particularly large. The strictly yearling prime beeves sold as high as a week earlier, these being in active request, and a new high record for the year was made when a sale was made of 15 fancy 849-lb. steers at \$\frac{9}{6}\$. The most striking feature of the market was the large sales of prime yearling steers and helfers mixed at \$\frac{9}{9}\$. \$\frac{9}{9}\$. \$\frac{5}{5}\$, with the better class of heavy steers selling at \$\frac{8}{8}\$. \$\frac{9}{9}\$. \$\frac{5}{5}\$. Wery good cattle of strong weights \$\frac{9}{8}\$. \$\frac{9}{9}\$. \$\frac{1}{5}\$. Wery good cattle of strong weights \$\frac{9}{8}\$. \$\frac{9}{9}\$. \$\frac{1}{5}\$. Wery good cattle of strong weights \$\frac{9}{8}\$. \$\frac{9}{9}\$. \$\frac{1}{6}\$. \$\frac{9}{9}\$. \$\frac{1}{6}\$ to do work. Two during that month kept it in good condition. Ple ing at \$\frac{8}{8}\$. \$\frac{9}{9}\$. \$\frac{9}{9}\$. \$\frac{1}{5}\$. \$\frac{1}{6}\$ to do work. Two during that month kept it in good condition. Ple ing at \$\frac{8}{8}\$. \$\frac{9}{9}\$. \$\frac{1}{9}\$. \$\frac{1}{6}\$ to do work. Two during that month kept it in good condition. Ple ing at \$\frac{8}{8}\$. \$\frac{9}{9}\$. \$\frac{1}{9}\$. \$\frac{1}{6}\$ to do work. Two during that month kept it in good condition. Ple ing at \$\frac{8}{8}\$. \$\frac{9}{9}\$. \$\frac{1}{9}\$. \$\frac{1}{6}\$ to mix the stock on pasture time. Live stock on pasture in good condition. Ple ing at \$\frac{8}{8}\$. \$\frac{9}{9}\$. \$\frac{1}{9}\$. \$\frac{1}{6}\$ to winter feeding to which the better class of a few head of fancy heifers at \$\frac{8}{5}\$. \$\frac{9}{9}\$. \$\frac{1}{9}\$. \$\frac{1}{6}\$ to winter feeding to which the stockers and feeders, the former going at \$\frac{8}{5}\$. \$\frac{9}{9}\$. \$\frac{1}{6

the best excepted, sold 40@60c lower than two weeks ago, heavy steers catching it the worst. Late in the week a train of 15 cars of Canadian stockers and feeders

the worst. Late in the week a train of 15 cars of Canadian stockers and feeders arrived.

Hogs underwent some rallies last week because of smaller receipts but there was not much stability to prices, and reactions followed. Speculators were good buyers at times, but it happened rather frequently that when they tried to reself their purchases they had to accept lower prices. Whenever eastern shippers failed to buy hogs freely the market was apt to weaken, provided the receipts were of normal proportions. Pigs continued numerous, shipments being largely from cholera-stricken sections of Iowa, and sales were made at comparatively low prices, although the insatiable demand for fresh pig pork furnished a good outlet, packers making liberal profits. There is a lack of the usual good fall demand for provisions, and packers are planning to place the hog market on a lower basis for their packing operations during the winter packing season. Prime butcher hogs of medium weights have been the highest sellers, and prime light hogs sold at a further discount. Provision prices have declined of late. The close of the week saw hogs sell at \$7.75@8.50, with one sale at \$8.55. A week earlier hogs brought \$7.80@8.65. Hogs weighing from 225 to 275 lbs. went highest, while pigs brought \$4.50@7.90, stags \$8.30@8.60, boars \$1.50@3 and throwout packing sows \$6.75@7.70. hogs sold the lowest of any time since early in Mav.

Sheep and lambs arrived less freely last week than a short time ago, with lambs greatly predominating, and feeder lambs comprising a big share. The feeder trade was extremely active all the time, and prices were well maintained generally, great numbers going to the country. especially to Michigan. Packers were able to force some sharp breaks in prices for mutton lambs, however, having little competition to face, whereas buyers of fleshy feeders had to compete with slaughterers. Sheep were relatively scarce and proved slower to weaken than lambs. At the week's close most fat lambs were 10 @20c lower than a week earlier

### CROP AND MARKET NOTES.

(Continued from page 373).

continued from page 373).

looking fine. The prospects for a crop next year were never better. Five inches of rain during September has thoroughly soaked the sub-soil. About 75 per cent of the usual acreage is being sown to wheat this fall. The weather for the past month has been ideal, only one frost so far this fall. The local market is as follows: Wheat 85c; corn 87c; oats 50c; eggs 25c; butter 20c; butter-fat 28c.

Nebraska.

Nebraska.

Hitchcock Co., Oct. 11.—The past month has made a great change to cooler weather which reminds us that winter is coming. We have had several nice rains lately that are helping greatly towards putting the ground in shape for another crop. People are all busy seeding wheat. They are putting out a large acreage, from one to 400 acres. Some fields are looking fine. Horse buyers are around looking up horses for eastern markets, paying from \$150@200 each for good sound horses that are fat. Cattle are in good demand at good prices. A car of potatoes has been shipped in and selling at 90c per bu.

Antelope Co., Oct. 9.—September, in this section of the state, was a very good month for doing work. There were two small rains that wet down four or five inches, but aside from this it has been dry and damage to crops has been large from lack of moisture. Corn is about ready to shock and threshing is practically done. Yield of small grain was light, but the quality was very good. Potatoes are very poor, hay is light. Stock looks good, although there have been a few cases of cholera and hogs are moving freely towards markets. They are worth \$7.20 per cwt; hens 10@12; corn 65c per bu; oats 43c; butter 25c; cream 31c; eggs 20c; hay \$9 per ton delivered. Horses, sheep and cows are scarce and high.

high.

Pierce Co., Oct. 8.—The early part of September was warm but the latter part was cool enough to be pleasant and comfortable to do work. Two light showers during that month kept the grass looking well and furnished stock with pasture. Live stock on pasture is as a result looking well and will enter the winter in good condition. Plenty of feed is in sight for winter feeding. On local markets hens are selling at 10@12c per lb; hogs \$7.30 per cwt; milch cows are hard to find at from \$50@80 per head at public sales. Horses are more reasonable in value than other stock.

South Dakota.

Deuell Co., Oct. 11.—Not much rain and farmers are busy digging potatoes which run from 75 to 200 bushels per acre. Price is 45c per bu; threshing is nearly all done. Not much plowing done this fall. Cattle and hogs are a good price and not many for sale.

### North Dakota.

There was a smaller number of farmers' wagons on the eastern market on Tuesday morning. Buyers were numerous enough to keep values firm with last week's quotations. Potatoes of good grade selling at about 85c per bu. Cabbages are not plentiful, with white selling at 50.5007.75, while stock and feeding tows and heifers brought \$4.65@.69.99 and stock calves \$7.15@7.75. An important factor in the stocker trade is furnished; wheat will average about 10 bushels per acre; barballo from Ontario, many finding their way to Pennsylvania. This acts to weaken ing the eastern demand in this market. Calves were bought freely at \$5@.11.35, and milch cows sold fairly at \$50.010 for attle on stalk corn and millet hay in feed lot, and they are doing fine for this class of feed.

### THIS IS THE LAST EDITION.

In the first edition the Detroit Live Stock Markets are reports of last week; all other markets are right up to date. Thursday's Detroit Live Stock markets are given in the last edition. The first edition is mailed Thursday, the last edition Friday morning. The first edition is mailed to those who care more to get the paper early than they do for Thursday's Detroit Live Stock market report. You may have any edition desired. Subscribers may change from one edition to another by dropping us a card to that effect.

### DETROIT LIVE STOCK MARKETS.

Thursday's Market. October 23, 1913. Cattle.

Cattle.

Receipts, 1367. Bulls and canners are steady; others 10c higher than last week. We quote: Extra dry-fed steers and heifers, \$8; steers and heifers, 1000 to 1200, \$7.50@8; do 800 to 1000, \$6.75@7.25; do that are fat, 500 to 700, \$6@6.50; choice fat cows, \$5.75@6.25; good do, \$5.25@5.50; common do, \$4.25@4.50; canners, \$3@4; choice heavy bulls, \$6.25@6.50; fair to good bolognas, bulls, \$5.50@5.75; stock bulls, \$4.75@5.25; choice feeding steers, 800 to 1000, \$6.75@7.25; fair do, 800 to 1000, \$6.50@6.75; choice stockers, 500 to 700, \$6.25@6.75; fair do, \$6@6.25; stock heifers, \$5.25@5.75; milkers, large, young, medium age, \$60@85; common milkers, \$40@50.

1900, \$5.5066.75; choice stockers, 500 to 700, \$6.266.75; choice stockers, 500 to 700, \$6.266.75; choice stockers, 500 to 700, \$6.2666.75; choice stockers, 500

10c lower than on Wednesday. Best lambs, \$7.10@7.15; fair to good lambs, \$6.25@6.75; light to common lambs, \$5@6; fair to good sheep, \$4@4.50; culls and common, \$2.75@3.

Bishop, B. & H. sold Parker, W. & Co. 120 lambs av 75 at \$7.25; to Sullivan P. Co. 65 do av 75 at \$7.25; to Sullivan P. Co. 65 do av 75 at \$7.25; to Sullivan P. Co. 65 do av 75 at \$6.25, 27 do av 60 at \$6, 16 do av 60 at \$6.35, 14 do av 55 at \$6.50. 20 sheep av 100 at \$3.75, 11 do av 105 at \$3.75, 26 do av 110 at \$4.50; to Kull 30 lambs av 80 at \$7, 18 do av 70 at \$7; to Hammond, S. & Co. 7 do av 65 at \$7; to Sullivan P. Co. 25 sheep av 110 at \$4.25; to Sullivan P. Co. 25 sheep av 110 at \$4.25, 17 do av 85 at \$4.25, 15 do av 90 at \$4.25, 15 do av 75 at \$7.25, 24 sheep av 100 at \$4.25; to Sullivan P. Co. 19 lambs av 50 at \$6.25, 5 sheep av 110 at \$4.25. Hambs av 70 at \$7.15, 277 do av 80 at \$7.25, 24 sheep av 100 at \$4.25; to Sullivan P. Co. 19 lambs av 50 at \$6.25, 5 sheep av 110 at \$4.25. Haley & M. sold Nagle P. Co. 110 lambs av 50 at \$6.25, 5 sheep av 110 at \$4.25. Haley & M. sold Nagle P. Co. 110 lambs av 50 at \$6.25, 10 sheep av 155 at \$7.15, 55 do av 75 at \$7.15, 55 do av 75 at \$7.25, 25 do av 75 at \$7.15; 55 do av 75 at \$7.25; 55 do av 75 at \$7.15; 55 do av 75 at \$7.25; 55 do av 75 at \$7.15; 55 do av 75 at \$7.25; 55 do av 75 at \$7.25; to Newton B. Co. 79 do av \$8 at \$6.25; to Newton B. Co. 79 do av 75 at \$7.25; to Newton B. Co. 79 do av 75 at \$7.25; to Newton B. Co. 79 do av 75 at \$7.25; do av 49 at \$6.55. Taggert sold Hammond, S. & Co. 42 lambs av 60 at \$6.65, 5 sheep av 120 at \$4.25; to Newton B. Co. 79 do av 75 at \$7.25; do av 49 at \$6.65, 5 sheep av 120 at \$4.25; to Newton B. Co. 79 do av 75 at \$7.25; do av 49 at \$6.65; be parker, W. & Co. 11 lambs av 80 at \$6.65, 5 sheep av 120 at \$4.25; to Newton B. Co. 79 do av 75 at \$7.25; do av 65 at \$6.55. Taggert sold Hammond, S. & Co. 42 lambs av 60 at \$6.65; 5 sheep av 120 at \$4. Co

butchers av 595 at \$6.10.

Johnson sold Kappingberg 7 feeders av 56 at \$6.25.

Same sold Mason B. Co. 15 butchers av 590 ta \$5.75.

Same sold Applebaum 4 heifers av 590

Veal Calves

Veal Calves.

Receipts, 569. Market steady. Best, \$10@11; others, \$7@9.50; milch cows and springers, \$5@10 lower.

Bishop, B. & H. sold Sullivan P. Co. 1 weighing 150 at \$11, 1 weighing 140 at \$11, 5 av 155 at \$11; to Parker, W. & Co. 3 av 130 at \$10.50, 2 av 125 at \$11, 2 av 135 at \$10.50, 10 av 143 at \$11; to Hammond, S. & Co. 3 av 120 at \$15, 59, 10 av 146 at \$11; to Nagle P. Co. 2 av \$10 at \$10.75, 6 av 155 at \$10.25, 14 av 150 at \$10.75, 6 av 155 at \$10.25, 14 av 150 at \$11, 1 weighing 125 at \$11, 2 av 170 at \$11, 1 weighing 125 at \$11, 2 av 175 at \$11, 1 weighing 125 at \$10.50, 22 av 150 at \$11, 1 weighing 125 at \$11, 50 which end of feeding steers and his securing others at a commission of 50 cents per head. Following our policy of cents per head. Following our policy of others at \$11, 50 were a bank and a leading merchant in Fairfield, both of who replied in his favor, before the advertisement was inserted. As a result of the advertisement one of our subscribers went to Fairfield at \$10.25, 4 av 150 at \$11, 7 av 140 at \$11, 1 weighing 125 at \$11, 7 av 140 at \$11, 4 av 135 at \$11, 5 av 150 at \$11.

Roe Com. Co. sold Sullivan P. Co. 2 av 150 at \$11, 1 weighing 150 at \$1, 5 av 150 at \$11, 1 weighing 150

Haley & M. sold Parker, W. & Co. 3 at \$11, 4 av 135 at \$11, 5 av 150 at \$11, 1 weighing 260 at \$7, 2 av 185 at \$11, 10.50, 14 av 175 at \$11, 12 av 135 at \$11; o Newton B. Co. 5 av 60 at \$11, 7 av 140 at \$11, 2 av 170 at \$10.50.

Sheep and Lambs.

Receipts 5529. Market steady lambs American cattlemen have been holding thousands of Mexican cattle in bond in El Paso and at other places on the international boundary line, waiting for final action on the tariff bill. Cattlemen are permitted to hold such cattle in bond for a period of six months.



## **HEWO** BELGIANS They Are Here!

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Wabash, Indiana More than a quarter century with the breed,

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We get the top price on consignments, make beral advancements and prompt remittances.

Daniel McCaffrey's Sons Co. PITTSBURG, PA.

Washington Trust Company, or any bank in city.

HAY Potatoes, Apples. We pay highest market prior for car loads. The E. L. Richmond Co., Detroit Mich. Responsible representatives wanted

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### BREEDERS' DIRECTORY.

### CATTLE.

Aberdeen-Angus.

Herd, consisting of Trojan Ericas, Blackbirds and Prides, only, is headed by Egerton W, the GRAND (HAMPION bull at the State, West Michigan and Bay City Fairs of 1912 and the sire of winners at these Fairs and at THE INTERNATIONAL, Chicago, of 1912. WOODCOTE STOCK FARM, Ionia, Mich.

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FOR SALE-Registered Holstein bull 18 mos. old.
Also bull calves. Excellent breeding
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For Sale reasonable prices, choice reg-for service. HATCH HERD, Ypsilanti, Mich.

REGISTERED HOLSTEINS HOBART W. FAY, Mason, Michigan. Farm right in the city, only a few minutes from Jackson and Lansing, electric cars from both cities every hour.

Buy A World Record Holstein Bull NEXT TIME. We have 2 with 75% same blood of 3 world NEXT TIME. We have 2 with 15% same blood of 3work record cows. Great bargains at \$250 each. LONG BEACH FARMS, Augusta, (Kalamazoo Co..) Mich

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Have for sale several fine y bulls out of cows with high official butter and milk records.

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Choice bull calves from 6 to 10 mo, old, of fashion-ble breeding and from dams with official milk and butter records for sale at reasonable prices. MOPHERSON FARMS CO., Howell, Michigan.

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A grand son of Pietertje Hengervelds Count DeKol, and out of Bertha Josephine Nudine. This is an almost faultless individual. Guaranteed right in every particular, and "dirt" cheap to a quick buyer. Also 7 good cows, one fresh—the others yet to freshen. The above would make a fine herd for some one. \$1950 will buy the bunch. L. E. CONNELL, Fayette, Ohio.

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FOR SALE—Jersey Bull Calf milk. 513 lbs. butter in 11 months. Sire's dam's record 10:550 lbs. of milk, 604 lbs. butter in one year. WATERMAN & WATERMAN, Ann Arbor, Mich.

Lillie Farmstead Jerseys
Tuberoulin tested. Guaranteed free from Tuberulosis.) Several good bulls and bull calves out of
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The Ingleside Farm is offering more and better before. All stock recorded. Write us what you want HERBERT E. POWELL Ionia. Mich. Citizen's Phone.

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SHROPSHIRE RAMS. Registered. Sired by Imp. Minton ram. Quality for grade or registered flocks. Also some young ewes. Prices right. WILLIS S. MEADE, Lapeer, Michigan.

1st and 2nd Prize two-year-old Shropshire Rams 1912.
sale. E. E. LELAND & SON, Ann Arbor, Michigan.

REGISTERED SHROPSHIRE—Rams and ewes for sale at reasonable prices. Breeding of the best. Harry Potter, Davison, Mich.

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SHROPSHIRE YEARLING and two-year-old Rams. Good ones, priced to sell. W. E. MORRISH, Flushing, Michigan.

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### Hous.

Ourocs & Victorias A Desirable Bunch of Sows of Either Breed due April and May, M. T. Story, R. R. 48 Lowell, Mich. City Phone 55.

Berkshire Boar of spring farrowing with the best of breeding for sale, A. A. PATTULLO, R. No. 1, Deckerville, Mich.

BERKSHIRES—Spring pigs, either sex, choicest breeding, also fall gilts. T. V. HICKS, Route II. Battle Creek, Mich.

BERKSHIRES—Boars ready for service \$16 registered. Boars 2 mo. old \$8 registered. B. B. REAVEY, Akron, Mich, Beautiful Young BERKSHIRE SOW sired by best son of Star Master, out of a daughter of the World's Champion Premier

out of a daughter of the World's Champion Premier Longfellow. Price \$50, worth \$100 Pigs either sex \$15 each. C. D. WOODBURY, Lansing, Mich.

Chester Whites—Spring and summer pigs, write us your wants, Price and quality right. Meadow View Stock Farm, R. F.D. No.5, Holland, Mich.

0. I. C.—BIG GROWTHY TYPE. Last spring stock. Scott No. 1 head of herd. Farm 4 mile west of depot. OTTO B. SCHULZE, Nashville, Mich. O. I. C. -MARCH and APRIL PIGS, the long growthy kind, with plenty of bone.

guaranteed. A. NEWMAN, R. 1, Marlette, Mich. O.I.C's.—Taking Orders for Sept. Pigs, pairs and FRED NICKEL R. No. 1. Monroe. Michigan.

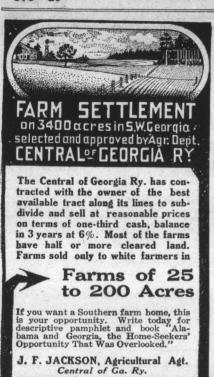
O.I. C. SWINE—Bred gilts all sold, pigs on hand. Will book orders for Sept. pigs, get my price on pairs and trios not akin.
A. J. GORDON R. No. 2, Dorr, Mich.

WRITE US Your Wants For Reg. Chester White Swine, Hols-tein Bulls, Shropshire Sheep Lamb Rams. Sept. pigs now ready for shipment RAY B. PARHAM, Bronson, Michigan.

O. I. C. SPRING BOARS and Fal Pigs and John Berner & Son. Grand Ledge, Mich.

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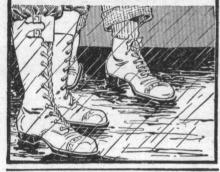
on all your shoes-light, medium, heavy, black or tan. Relieves you of the rub-bers nuisance. Shoes won't be sticky or greasy and will polish as well as ever.

It's easy to apply and one or two applications waterproof your shoes for the season.

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Ask your shoe man or general store. If they haven't it, send us their names and 25 cents for a full size can—enough to keep your shoes waterproof for a whole season.











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FALL PLANTING IS BEST—Our prices are the of Apple. Peach. Pear. Cherry, and other Trees and plants. Send for catalog at once and order for of Apple, Peach, Pear, Cherry, and other Trees and plants. Send for catalog at once and order for Planting. Ernst Nurseries, Box 2, Moscow, O.

Mention the Michigan Farmer when writing to advertisers.

## Horticulture.

## Tomatoes, Cabbage and Co-operation.

these products, the territories in which in comparison with that of most other crops. Because of this fact, it will be of in a normal year. interest to many to know how cabbage ing the summer and early autumn. Growterest in comparing them with the crops with which they are familiar.

In considering the effect of the drought, let us first take the cabbage industry. The growing of this product in this locality is by no means new. It has been tried out for a dozen years or better, by farmers who have grown the crop annually. It is an established industry, and recognized as a paying business. growers of cabbage have gone through unfavorable seasons, before now, but never one so disastrous as the present one. For weeks the plants stood almost at a standstill, the ground devoid of moisture, and the thermometer registering better than 90 in the shade. The effect from this was to make the crop uncertain and postpone the harvest.

But although the drought in itself was wake was worse. In normal seasons the cabbage worm is the only enemy and but little attention is paid to its work. row or two of plants around the field may be destroyed, but there the destruction ceases. But this season the weather plants done, with us? created conditions favorable for the cabbage louse and while the plants were practically at a standstill these pests destroyed whole fields. Heavy rains were not come till close to the first of October.

In spite of these conditions, however, the crop is not a total failure. Rain has come, and good weather through October crop in this locality was heavy this season, and the cabbage crop is better than oat crop or early potato crop, and probably as good as the corn or wheat crop. In the care of the cabbage, however, the grower measures his returns entirely in dollars and cents, while this is not true of corn and other products fed mostly on the farm and converted into money indirectly.

In considering the growing of tomatoes, it should be mentioned that this business is new, and still in its experimental stage, though the successful crop of last year proved beyond a doubt the practicability of making the business a paying one. It was claimed by the men who introduced the business into this locality that tomatoes would stand a drought better than most other crops. In a sense this is true, The vines grew well, blossoms came, and tomatoes appeared. But as in the case of cabbage, the drought was not so bad as what followed in its wake. Weather conditions produced tomato rot, and many hundreds of bushels of fine, large tomatoes were picked and thrown away as useless. But with the tomatoes as with the eabbage, rains and favorable weather have done wonders at the eleventh hour.

krout mill, and usually tomatoes are though this is not always the case. Firms the members of which are usually nonresidents, own and manage the mills and canneries. In order to conform to good business methods and be reasonably sure of filling their orders, these firms must of necessity contract the crop of the growers before the seeds are sown. It is true that in this locality, some growers decline to contract their cabbage, but it is also true that some must do so, if the krout mill is to be kept in the locality. An unfavorable season like the present, always makes it harder to get contracts. Those

HE business of growing cabbage, who contracted their cabbage this year, and tomatoes extensively, in Hills- at around four dollars per ton, are delivdale county, is confined practically ering with reluctance, their meager crop to two townships. From the nature of while the men who declined to contract are receiving the unusually high price of they are grown on a large scale, is small 15 per ton. Of course, the firm cannot contract for more than the average price

This state of affairs leads to a query: and tomatoes stood the unprecedented If the farmers of one township can own drought experienced in this section dur- and manage successfully, a co-operative creamery, why cannot the farmers of ers of these products in sections not af- other townships own and operate successfected by the drought, will, of course, be fully a co-operative krout mill and caninterested in the subject; and those not nery? Such a co-operative concern would familiar with the business will find in- enable the grower to reap much better returns for his labor. Much more of the money would remain in the community and business generally would be more brisk. Of course, this is up to the farmers. If they cannot co-operate in such an enterprice, or do not wish to do so, the plant managed by an outside firm is much better than none at all.

Hillsdale Co. J. A. KAISER.

### FALL BEARING STRAWBERRIES.

were freaks of their kind, but from some to bear fruit during the entire season. disastrous the pest which followed in its breeder of Iowa, several years ago, bepublic. There was five varieties in the lot, and since that time two of these have been introduced under the names of Americus and Francis. What have these

place on the market right along through the month of July, August, September and October, is an alluring one, at least, the only effective remedy, and these did upon first thought, it is. So the writer proceeded to try these sorts out, in high hopes that we had hit on something that would materialize as a bonanza. For five seasons we have been growing them and will do much for the cabbage fields. No under differing conditions. Last season was the only one in which we had berries in commercial quantities. From an eighth of an acre, perhaps, there was sold \$20 worth of fruit, the same being harvested between the first of August and the first of November inclusive. The berries retailed at 25 cents a quart box. This was not nearly enough to place the operations on a paying basis; much more than that can be made in growing the regular sorts. This result was secured from spring-set plants. The plants were set in hedge rows, after the manner of the method we practice with our regular sorts. Blossoms were kept off until July 1, and efficient cultivation given; also irrigation applied at intervals, as needed. As the berries began to ripen, a mulch of cut straw was applied. Liberal quantities leaves. of fertilizer was applied to see just what there was in these sorts, as money makers. The result, on the whole, convinced us that it was extremely doubtful if these overbearing sorts would ever be able to establish themselves with the growers of plants on a smaller scale. This season got practically nothing from them, three gave a higher percentage of clear confamily can have a dish of this fruit, now been very greatly improved upon.

ly from those secured by us. The strawberry requires quite a generous amount of warmth and sunshine to insure perfect development of its fruit; and while we get the sunshine, usually, we do not as a usual thing get the degree of warmth required, not during the late summer and autumn, at least. Under right conditions, that is, a rich soil, and abundance of moisture, these plants will produce a creditable amount of fruit, and it may be worth the effort, to the grower, to try them out as a novelty, or for the pleasure of having this fruit out of season; even in such a climate as prevails with us.

After all, I am not perfectly sure it would be such a very desirable thing to have a strawberry crop to harvest right along through the summer and fall; the thing would get pretty monotonous after a while; the same thing, day after day, and week after week. As it is, after three or four weeks of the work, we begin to tire of it; and this is especially true as regards the pickers. It would be too much like factory work to suit me. One vantages of farm life over that of many other avocations is the never ending change; at least the changes are sufficiently frequent that the work need not become monotonous.

Emmet Co. M. N. EDGERTON.

### THE STRAWBERRY BED.

The other day I saw a neighbor working up the ground of his old strawberry bed. As far as I could perceive from a distance he was making an excellent job of the work. He went back and forth in Today, October 8, I had a dish of the rows with a deep working cultivator strawberries and cream for dinner; these until the soil must have been thoroughly berries were not picked from plants that mellowed, good and deep. Then one of his boys hitched the horse to the hay overbearing sorts, the nature of which is rake and gave the patch a good combing A few days prior to this the vines The plants from which these berries and weeds had been mowed and the rubwere picked, were obtained from a plant bish raked off. Taking it all together, our neighbor no doubt thought he was doing fore their introduction to the general an excellent piece of work, and so he was.

Nevertheless, the labor was misplaced, and, because of this, meagre reward must result. If this work had been done directly at the close of the picking season The thought of having strawberries to good would have resulted, but, given at this late date, the last half of September, it seems to the writer that any possible benefit will be largely nullified by the injury done in thus destroying growth made by the plants in preparing for next season's harvest. No doubt a lack of knowledge is the cause of a great deal of misplaced effort. We all know this to be true. No doubt many, if not all, have had personal experience along this line: lessons more or less expensive.

When holding a strawberry bed over for a second or third crop, the object to be held in mind is to induce the plants to make as large a growth of new vines and roots as possible, and this is best accomplished by getting busy directly after the last berries have been picked, providing conditions favorable for new growth in root and crown through a deeply mellowed soil and subsequent shallow cultivation. Old beds that were given proper treatment directly after harvest and a few thorough workings on the surface at suitable intervals afterward, now delight the eye of the owner with a luxuriant growth of vines and M. N. E.

### MAKING LIME-SULPHUR SOLUTION ON THE FARM.

Tests were made recently by the Virginia Station in the home manufacture this section, as a part of the regular of concentrated lime-sulphur solution, ascrop routine. However, I did not wish sisted by various growers throughout the give them up entirely, and without state. It was found that direct fire heat further trial; so I concluded to grow the and steam were of about equal value in cooking the material, both from the It seems likely, now, that the yield of to- there are two rows across the garden, standpoint of cost and efficiency, but matoes will compare favorably with the about 150 feet. Good cultivation and hoe- steam heat was much more easily conyield of other products grown in the same ing have been supplied; otherwise the trolled. Both burnt and hydrated lime plants have been left to themselves, just were about equally effective, but the hy-As a general thing, cabbage is grown the sort of treatment that they would get drated lime was easier to handle. kept extensively only in the neighborhood of a under general field culture; and we have longer without becoming carbonate, and grown in the vicinity of a cannery, al- or four quarts through the season. 3 centrate. Ground quicklime was found though this is not always the case. Firms far as the writer is concerned, a few of to be undesirable. The 50:100:50 formula the plants will be put in a favorable place gave best results and the 40:80:50 next, and intensive methods applied, just so the both being preferable to the 621/2:25:50 formula. A home-made solution conand then, out of its regular season. As taining a proportion of sludge appears to for attempting to make these sorts a reg- be almost as valuable for spraying as a ular part of our operations, it is useless clear solution, providing it has been propto try, till the overbearing strawberry has erly made. Home-made concentrated lime-sulphur solution was found to cost However, it is not for me to say that about one-half as much as the commerthe overbearing strawberry is not a prac- cially prepared at current prices. It retical thing, far from it. Under such con- quired a little more care in its use since ditions as prevail in sections of more it is not generally as constant in strength southern latitude, results will vary great- as the best commercial brands.

## Veterinary.

CONDUCTED BY W. C. FAIR, V. S.

Advice through this department is free to our subscribers. Each communication should state history and symptoms of the case in full; also name and address of writer. Initials only will be published. Many queries are answered that apply to the same ailments. If this column is watched carefully you will probably find the desired information in a reply that has been made to someone else. When reply by mail is requested, it becomes private practice, and a fee of \$1.00 must accompany the letter.

Luxation of Stifle.—I have a five-yearold mare that appears to have a locking
of stifle joint whenever she stands in
stable, but when out in pasture I have
been unable to notice anything wrong.
I work her all the time; she is not lame,
but when backing I notice a little catch
and she shows it some when stepping
from side to side. D. W., Shabbona,
Mich.—The ligaments that hold cap in
position are weak and if you will clip off
hair and apply one part powdered cantharides and eight parts fresh lard every
week or ten days she will get well. The
stall floor should be higher behind than
in front for when she stands in this position the bone is better held in place.

Rheumatism—Bots.—I bought a team

in front for when she stands in this position the bone is better held in place.

Rheumatism—Bots.—I bought a team of horses last spring which were shipped here from South Dakota and two months after I bought them they appeared to stumble and show a little lameness occasionally on fore quarters. This lameness was much worse preceding storms. I am feeding them 2½ qts. to each of them three times a day and what hay they want. In the spring when I first bought them, they both passed some grubs. What is the cause of these conditions and what treatment do you recommend? D. B., Munising, Mich.—Your horses suffered from rheumatism and bots. Mix together equal parts powdered sulphate iron, powdered nitrate of potash, ground gentian and ginger and give each one a tablespoonful at a dose in feed two or three times a day. Two and one-half quarts of oats at a feed is not enough for a work horse. They should be fed twice that quantity morning and noon and three or four quarts in the evening.

Sore Throat.—I have a cow which I noon ar evening.

be fed twice that quantity morning and noon and three or four quarts in the evening.

Sore Throat.—I have a cow which I feed bran and green corn, besides she runs in pasture; her appetite is poor and whenever she eats or drinks she froths and drools from mouth. Have given her soda, salts and ginger, but she does not improve. W. M., South Haven, Mich.—Apply one part turpentine, one part aqua ammonia and three parts olive oil to throat every day or two and dissolve 1 dr. of chlorate of potash in a pint of water and give it to her as a drench, pouring it into mouth slowly in order that it may gargle throat thoroughly; treat her two or three times a day.

Rheumatism—Tuberculosis of the Liver of Turkeys.—We have a six-year-old cow which we expect to fatten this winter that has gone lame in left hind leg, but I fail to find any swelling or tenderness in any part of the leg. My hens and turkeys have rather a peculiar sickness and amaxious to know what ails them. I have lost several grown chickens and matured turkeys. Some of them show lameness and every one that I have examined after death has enlarged liver; besides, it is covered with yellowish white spots varying in size from a pin head to a marble, some of these bunches were filled with matter and the liver has a rotten appearance. Mrs. E. G. C., Walled Lake, Mich.—Give your cow a tablespoonful of powdered nitrate of potash at a dose in feed twice a day. If you find a tender spot apply spirits of camphor twice daily. Your chickens suffer from tuberculosis and are not curable. Have your cows been tested for tuberculosis and do you feed your fowls milk?

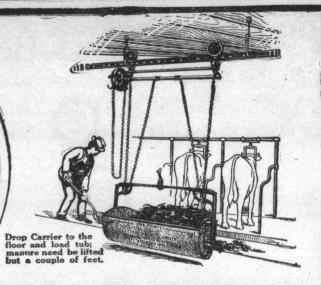
Simple Catarrh.—Several of my chickens are sick; have a watery discharge from eyes, some swelling of lids and some of their heads are larger than normal. None of them have died, but I feazit a fatal disease. After a few days sickness the comb darkens. Mrs. A. C., Union City, Mich.—Your chickens may be drinking impure water, or their roost may need cleaning and disinfecting. Without studying the cause, learning what

and salt, a teaspoonful to every four fowls.

rowls.

Parasitic Worms Infesting the Digestive Apparatus.—For the past two months I have been having trouble with my turkeys and several of them have died. Those that have died have shown a dullness, droppings are yellow and soft and the birds appear to grow weaker and weaker until they die. I have tried all the remedies I could think of and have been giving copperas in their drinking water. E. F., Jeddo, Mich.—Give each of your turkeys 25 grs. powdered areca nut at a dose three times a week for two weeks; also give them equal parts ground ginger and gentian with each meal adding a little salt. A teaspoonful to full grown bird twice a day. It is needless for me to say you should clean and thoroughly disinfect their roost and change their run. They should be fed a good quality of food.

Raising and Lowering Carrier - Track Can't Sag While Loading. A Shove Out it Goes, Dumps and Returns Automatically.



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tages of the rigid track inside the barn—the celebrated JAMES I-beam track that can be bent to any curve without the use of heat, doing away with the expense for curves; the JAMES simple, sure-working switches; the "button-on" hangers that make the carrier easy to erect; a tub that can be quickly dropped to the floor for leading, and that "stays put" while loading—track can't sag, hence carrier moves only when you push it—and other features that make barn cleaning

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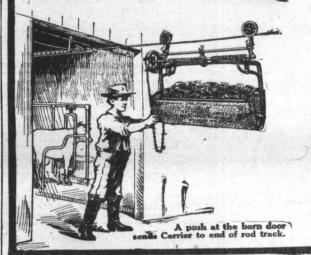
walking through the wet yard and through the snow. An ingenious device makes dumping certain. The 2-in-1 Carrier is the newest JAMES improvement—backed by all the quality, reputation and experience that have made JAMES Carriers and JAMES Sanitary Barn Equipment famous and successful.

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Dairy Barn Ventilators.

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BIG TYPE DUROCS—March and April Boars, ready for service. Pairs not akin. Also Shropshire dams for sale. F. J. DRODT, R. No. 1, Monroe, Mich.

ESSEX PIGS—We are offering just now some very choice young Essex Pigs. No better time to get something good at reasonable prices. E. P. OLIVER, Flint, Mich.

Duroc Jerseys—20 Spring Boars Ready to Ship. CAREY U. EDMONDS, Hastings, Michigan.

DUROCS, Good Enough to Ship Without the Money.
KOPE KON FARM, Kinderhook, Michigan.

Duroc-Jerseys Spring boars from prize-win-ning strains. Sows all ages Brookwater Farm, R. F. D. No. 7. Ann Arbor, Mich.

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Paw Paw. - Mic

Duroc Jerseys For Sale—Three fall boars, also spring pigs, either sex; of finest breeding and individua quality. John McNicoll, Station A. R 4, Bay City Mich

L ARGE STRAIN PROLIFIC POLAND CHINA HOGS-Two choice fall yearlings, the best lot of spring pigs I ever raised, 5 sows farrowed 49 pigs. H. O. SWARTZ, R. 37, Schoolcraft, Michigan.

POLAND CHINAS—Both Western and Home Bred. Either sex. all ages. Prices right. W. J. HAGELSHAW, Augusta, Mich.

Poland Chinas and Single Comb White Leghorns. B. M. WING & SON, Sheridan, Michigan.

LARGE STYLED POLAND CHINAS—Spring and summer pigs, Also Oxford bucks and buck lambs at close prices. ROBERT NEVE, Pierson, Mich.

P. C. MARCH AND APRIL PIGS—The long bodied to please. R. W. MILLS, Saline, Michigan.

FOR SALE-Poland China Boars. March and April farrow. Prices right. G. W. HOLTON, R. No. 11, Kalamazoo, Mich. POLAND CHINAS—Choice lot of spring pigs, either sex. Prices right, L. W. BARNES & SON, Byron, Shiawasse Co., Mich.

POLAND CHINAS—Either sex, all ages, Something good at a low price. P. D. LONG, B. No. 8, Grand Rapids, Michigan

Butler's Big Bone Prolific Poland Chinas Big boars ready for service, weigh up to 250 lbs. not fat, from big prolific sows that not only farrow big litters but raise them. Write for what you want. J. C. BUTLER, Portland, Michigan.

LARGE TYPE P.C. FALL PIGS all sold. Have the spring pigs I ever raised. Eight sows farrowed 86. Come or write. Expenses paid if not satisfied. Free livery from Parma. W. E. Livingston, Parma, Mich.

350 BIG TYPE MULE FOOT HOGS—All ages for sale. Prolific and hardy. Best breed for Michigan. Also Ponies. J. DUNLAP, Box M, Williamsport, Ohio

YORKSHIRE SWINE—Young boars ready for service. Also spring farrowed gilts and Aug. farrowed pigs for sale. Pairs not akin, GEO. S. McMULLEN, Grand Ledge, Mich.

Large Yorkshires Pigs farrowed in August from JONES & LUTZ, Oak Grove, Michigan.

## IMPROVED LARGE YORKSHIRES

Sows and gilts bred for September and October farrow. Service boars. Pigs all ages. Breeding and prices upon application.
W. C. COOK, R. 42, Ads. Michigan.

YORKSHIRE SWINE—A few choice boars left.
Special prices for quick sale. OSTRANDER BROS, Morley. Mich.

## **Lillie Farmstead Yorkshires**

Spring gilts, splendid ones. Fall pigs, either sex. Gilts bred for Spring farrow.

EOLON C. LILLIB Coopersville, Michigan.

# Poultry and Bees.

UNUSUAL EXPERIENCE WITH OPEN- the opportunity to exercise. Dissatisfac-FRONT HOUSE.

will have a larger flock of hens. My Leg- absolutely tight. A house of this con-horns have been the wonder of the neigh- struction which admits drafts of air borhood. But there is nothing remarkable through any of the walls other than the about these chickens. It was all in the front is bound to be drafty and cold, a more chance than the neighbors' hens, it successful user or advocate of the openis doubtful whether they would have laid front structure.-Eds.) any more eggs. I dislike to boast, but it is no exaggeration to say that my hens have outstripped everything in this section in egg laying. However, it is only and breeding is suspended for several fair to state that this is a dairy community and the people have not yet learned that hens are as profitable as cows. A neighbor who milked 10 Jersey cows last neighbor who milked 10 Jersey cows last of young bees. In case any queens show winter kept a careful record of the feed lack of vitality they should be replaced consumed and of the number of pounds of milk given by each cow; also the cost queenless during the winter. of feed and the cash returns from milk, butter, etc. It was found that he cleared a little less than one dollar a week on each cow's milk. He thinks this not a bad showing.

The writer kept a record of each flock of hens wintered in separate houses last winter. (some were pullets) in each house. Keepshowed a clear average profit of \$4.20 per week from each 60 hens.

be found here. Nearly all are the oldmore than a place in which to roost, Such houses are little better than none. In some instances they are without windows, and the doors are never closed, even in the dead of winter. The hens come and go at will and, of course, they have all they can do to keep from freezing to death. Sometimes they cannot enterprising neighbor decided to build a new poultry house. It was to be the kind netting. Nearly every beginner is tempted to try the open-front poultry house, tic beginner's plans I hesitated about giv- packed in chaff, dry leaves or similar maing my experience with the same kind of terial to diminish the loss of heat. A fangled" open-front house. But the poor things had their heads badly frozen. Their combs and wattles had to be thawed out are made with double walls, the space and "doctored," but in spite of all this being left empty or filled with chaff; to say that they stopped laying. A frostbitten hen laying eggs would be a curiosity, to say the least.

So much has been said about the openfront poultry house of late years that, weather, not only to prevent the cold without having had some experience, we are apt to get the idea that this kind of There should always be room for bees a house is suitable for cold climates. It to pass in and out when weather is warm may be good enough for large, heavy enough for flight. chickens with small wattles and combs, but for Leghorns the open-front house is a "delusion and a snare" where the mercury goes down to zero every winter.

it is no good at all. The curtains will not protect the hens like a solid wall, and into the cellar, consequently indirect vena hen must be comfortable in order to tilation is necessary. be profitable.

out the cold. built, but the boards had dried in a little ey makes this unnecessary. and this left enough space for the frosty tilation is necessary, of course, but frosty the hive, or on a chilly day. winds, blowing through cracks or through

ANNA W. GALLIGHER, Ohio.

than do the heavier breeds, and yet they away occasionally. are the most active of fowls when given Shiawassee Co.

tion with open-front houses, however is generally traceable to failure, on the part Eggs are going to be high this winter of the builder, to observe the most esand I am planning to have even a bigger sential point in its construction, and that yield than I had last winter, because I is the making of the rear and end walls feed and care. If they had been given no fact which will not be disputed by any

### PREPARING BEES FOR WINTERING.

In locations where winters are severe months it is best that brood rearing be rather active during late summer, so that the colony may go into winter with plenty early, so that the colony will not become

The most important considerations in wintering are plenty of young bees, a good queen, and plenty of stores of good quality. Sound hives and proper protection from cold and dampness are also essential in cold regions.

wintered in separate houses last If, as cold weather approaches, the bees There were from 50 to 65 hens do not have stores, they must be fed. Every colony should have 25 to 40 pounds, ing a strict record of all feed consumed depending upon the length of the winter and all eggs sold, the two coldest months and method of wintering. If feeding is practiced, honey may be used, but syrup made from granulated sugar is just as Very few modern poultry houses are to good and perfectly safe. Never buy honey for feeding that you do not know posfashioned houses which are really nothing itively to be free from disease. Winter stores should be looked after early enough so that it will not be necessary to feed or to open the colonies after cold weather comes on. Honey dew should not be left in the hives, as it produces dysentery.

In wintering bees out of doors the amount of protection depends upon the severity of the winters. Dampness is even do that. A short time ago a very harder for bees to withstand than cold, and when it is considered that bees give off considerable moisture, care should be that is enclosed on one side with wire taken that, as it condenses, it does not get on the cluster. A mat of burlap, or cover of burlap with fine shavings, no matter what the climate. I was no chaff or ground cork on top, makes a exception. After hearing this enthusias- good absorbent. The hive may also be house during the awful winter before last. large box without top or bottom set over Everything possible was done (except the hive and filled with this packing mawhat ought to have been) at the last mo- terial and given a water-proof cover, ment, to protect the fowls in this "new makes an excellent wintering case. An opening must be left in front so that bees will be able to leave the hive. Some hives those fowls suffered for weeks. No need these are good for outdoor wintering. The entrance should be lower than any other part of the hive so that any condensed moisture may drain out.

Entrances should be contracted in cold wind from entering, but to keep out mice.

There should always be room for bees

With care, cellar wintering is very successful. The cellar must be dry and so protected that the temperature never varies from 40 to 45 degs. F.; 43 F. seems An open-front house is certainly "all to be about the right temperature, Ventito the good" in summer, but for winter lation must be good or the bees become fretful. Light should not be admitted

Cellar wintering calls for less honey to I boarded up that house, placed two maintain the proper temperature in the large windows in it to partly fill the cluster and is therefore more economical. space, and covered all the remainder Bees so wintered do not have the opporof the outside with tarred paper to keep tunity of a cleansing flight for several It had been fairly well months, but the low consumption of hon-

The time for putting bees in the cellar winter winds to enter. When one is reck- varies with localities. They are put in less enough to build an open-front house before severe weather comes and as soon for poultry, some of the small cracks and as they have ceased rearing brood. It crevices are liable to go unnoticed. Ven- may be done at night, when all are in

The hives may be piled one on top of a curtain, are not what hens need in the the other, the lower tier raised a little way of ventilation.

The entrances should not be contracted unless the colony is weak. (Many users of the open-front poultry Do not close the entrances with wire house will take exception to the above cloth, as dead bees will accumulate more unqualified condemnation of that style of or less on the bottom boards and may house. It is true that the Mediterranean cut off ventilation. Leaving entrances breeds require better protection from cold open makes it possible to clear these

N. F. GUTE.



and grow feathers at the same time

Feather growing saps all the nutrition of a hen's ration. That's why hens practically stop laying eggs when moulting starts. Given their own time to moult, hens take about 100 days within which to shed the old feathers and grow new ones. But that hits your pocketbook hard, because egg prices are away up high in October, November and December. Change your methods to mine. I force my hens to moult carly in fall, make them moult quickly and get them back laying again before winter sets in. To do this I rely absolutely on

# Dr. Hess Poultry PAN-A-CE-A

Shortens Moulting Period—Makes Them Lay

My hens get this bracing poultry tonic all year round, so that when moulting time comes along they are fit to stand the severe strain. Just before moulting commences I confine the birds for about a week and put them on half rations to reduce the fat. This dries up the quills right to the ends and it only takes an increase in protein and fatty rations to make new feathers and force out the old ones. Back they go then on Pan-a-ce-a—this tones up the egg organs and brings back the scratch and cackle and compels each hen to lay regularly—just when eyus are at their highest price.

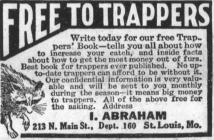
My Pan-a-ce-a is a tonic—it makes poultry healthy, makes hens lay, helps chicks grow and shortens moulting period. The result of my 25 years experience as a doctor of medicine, doctor of veterinary science and successful poultry raiser. Ingredients printed on every package and certified to by the U.S. Dispensatory and Medical Colleges. Read this morny-back guarantee. You buy Dr. Hess Poultry Pan-a-ce-a of your dealer and feed it according to directions. If it does not do as I claim—if it does not pay you and pay you well. I have authorized your dealer to refund your money. 14 bas, 25c; 5 bbs. 60c; 25-b. pall \$2.50. Except in Canada and the far West. Never sold by peddlers. Send 2c stamp for my brand-new poultry book—it's a stunner.

Dr. Hess Stock Tonic

Taken off pasture, put on dry feed and closely confined, your stock are apt to get out of fix during winter. Some are liable to get out of fix during winter. Some are liable to get constipated dropsical swellings, stocky legs, but, most common and dreaded of all diseases, especially among hogs is worms—worms. Dr. Hess Stock Tonic will keep your stock toned up, enrich their blood, keep their bowels regular and will rid them of worms. 25-lb. pail \$1.60; 100-lb. sack \$5.00; smaller packages as low as 50c. Except in Canada, the far West and the South.

DR. HESS & CLARK Ashland, Ohio

Dr. Hess Instant Louse Killer Kills lice on poultry and all farm stock. Dust the hens and chicks with it, sprinkle it on the roosts, in the cracks, or keep it in the dust bath, the hens will distribute it. Also destroys bugs on cucumber, squash and melon vines, cabbage worms, etc., slugs on rose bushes, etc. Comes in handy sifting-top cans, 1 lb. 25c; 3 lbs. 60c. Except in Canada and the far West. I guarantee it.



SKUNKS and all other furs will be high this season. I trapped from Iss0 to 1899, the year I started in business and I know the hardships a trapper has to gethru to be successful. Why not SHIP YOUR FURS this season to a man who understands the business from the trap line to the finished garment. I am that man and I want you to have my free price lists which contain reliable information and quotations that any man can understands. JAS. P. ELLIS, 35-37 Mill St., Middletown, N. Y.

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COLUMBIA Wyandottes, Winners at Chicago, Grand Rapids, South Bend and St Joseph. Stock and eggs. RICHARD SAWYER, Benton Harbor, Michigan,

If You Want Eggs Next Winter buy Pine Crest white the perfect egg machines. Write for prices. Mrs. Willis Hough, Pine Crest Farm, Royal Oak, Mich. SILVER LACED, golden and white Wyandottes Eggi for hatching at reasonable prices; send for circular Browning's Wyandotte Farm, R. 30, Portland, Mich.

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NATIONAL FIRE PROOFING COMPANY, Fulton Building PITTSBURG, PA.

## Grange.

Our Motto—"The farmer is of more onsequence than the farm, and should be

### THE NOVEMBER PROGRAMS.

State Lecturer's Suggestions for First Meeting.

Song. Washing day helps, by three women.

Washing day heips, by three women.

Recitation.

Down to date "Question Box" on farm practices. (Members number about the hall and even ask questions for odd numbers to answer).

Recitation, "Brown's Example."

How can we better social conditions for country boys and girls? by a man and

Humorous song.
Harvest march, by young people.
Fruit exhibit, in charge of committee
who serve it for refreshments at close of Closing song.

Suggestions for Second Meeting.

Ten minute song service.

Current events.

Recitation, "Keep it Before the People."

Book review.

Book review.
Ironing day helps, by three women.
Song by quartet.
Things I would like to see State Grange
o, by two men and two women.
Instrumental music.
"Surprise feature."

### ONE WAY ONE GRANGE GROWS.

It was "social day" at my home Grange. To call it "social day" is, after all, to give it something of a misnomer; for the program in Ypsilanti Grange, No. 56, is and always has been its big event, and this in spite of a dinner and social noon hour that are nowhere excelled for enjoyment.

As soon as dinner was dispatched, the master called the people to order and, before turning the meeting over to the lecturer, announced that the program committee had raised the question of when degrees would next be conferred by our Grange. He felt, he said, that plans should be made toward doing this at some certain time in the near future, therefore he urged that each member think over the people he knows who would make desirable members, or who need the Grange, and decide upon one to try to secure. This, he said, should result hall, easily in at least ten new members for a class to initiate as a feeder for our regular membership.

There is something in such definite, clear cut planning which goes straight to my sense of the Grange fitness of things. It seems as if it is as it should be. It smacks of doing things. It shows the ap-

ter men and women.

Alger County Pomona held its autumn meeting with Wetmore Grange, a small exhibition of farm products being a feature. Prizes had been offered by Pomona for best samples of oats and corn and a number of entries were made by members. M. Lagergren won first award in both grains and C. A. Gogarn second. It was a most successful meeting in every way, seven new members being secured. Delegates to State Grange, chosen at this meeting, are Mr. and Mrs. Andrew Johnson from the subordinates and Mr. and Mrs. C. A. Gogarn from the Pomona.

Sparta Entertains Kent Patrons.—The

meeting, are Mr. and Mrs. Andrew Johnson from the subordinates and Mr. and Mrs. C. A. Gogarn from the Pomona.

Sparta Entertains Kent Patrons.—The Pomona Grange of Kent county recently held an enjoyable two-day meeting with Sparta Grange, the visitors being royally entertained. The business side of the meeting consisted mainly of the election of Pomona delegates to State Grange, J. W. Spangenburg and wife, of Sparta Grange, being chosen. There were many valuable program features, among which may be mentioned the illuminating address on "What Life Insurance Means," by C. H. Bramble, secretary and manager of the Grange, life insurance company; a splendid talk by O. E. Balyeat, superintendent of Sparta schools, on "Agriculture in the Public Schools," which included something of the history of farming as a science. During the course of his remarks he asked the co-operation of the farmers in securing a teacher and installing a course in agriculture in the schools of Sparta. This has been successfully done in more than 29 high schools of Michigan. Mrs. Preston, of Kinney Grange, read a paper which had been written by Mrs. Linn Wilder, the victim of the gas explosion at Kinney the afternoon before. The account of the sad accident cast a gloom over the assemblage as Mr. and Mrs. Wilder were personally known to many present. A committee was appointed to express the sympathy of the Pomona Grange for the bereaved husband and parents of the young woman. At the open session State Master Ketcham talked to an audience of over 300 on "The Opportunities of Today," limiting his discussion largely to the opportunities extended by modern agriculture. The programs included many literary and musical numbers of merit, and there was a fine display of bread, needlework, map drawing, corn, potatoes and seeds, cash prizes having been offered to boys and girls making the best showing of these several products.

### COMING EVENTS.

Pomona Meetings.

Charlevoix Co., at Peninsula Grange all, Thursday, Nov. 13. Regular biennial

## Farmers' Clubs

Address all communications relative to the organization of new Clubs to Mrs. C. P. Johnson, Metamora, Mich.

Bables" by Mrs. M. Massey who declared that in times gone by the baby show was a joke without dignity or any serious thought of its real significance. Today we place a premium on "better bables," agreeing that "blue ribbon" boys and girls are as essential on the farm as thoroughbred live stock. Better bables mean beter men and women.

Alger County Pomona held its autumn meeting with Wetmore Grange, a small exhibition of farm products being a feasson.

truit, and none next year. This being the annual fair meeting a very creditable showing of corn was made, but most seemed to be waiting for the produce show.

Hold Thirteenth Fair.—The Washington Center Gratiot County Farmers' Club held their thirteenth annual fair at the home of Mr. and Mrs. C. N. Curren, October 9. There were about 175 people registered. The displays were very fine, every department being well filled, there being cver 200 entries. The poultry tent was well filled, also apples, grains, jellies, fruits, vegetables, etc., were all worth mentioning. The fancy work department was very much appreciated. The chick-en-pie dinner with all of the trimmings was served by six young ladies and two men, to about 175 people, who did justice to it all. After dinner Orville Bowers took several photo's of all who were there. This ended a day well spent and every one seems to take more interest in the fair meeting each year.—Cor. Sec.

Discuss Game Laws.—The Hartland Farmers' Club met at the home of Mr. and Mrs. H. W. Clark. All were pleasantly welcomed by the host and hostess. One hour was spent in partaking of dnner, then the time had arrved for the program. Music was furnished by the Burgess Orchestra, and in addition several fine instrumental selections were rendered. Roll call was responded to by some with quotatons and some by early reminescences. A good literary program was rendered. Prof. Rice made a suggestion that the president appont someone to look up the law concerning the license for hunting. The Club then adjourned to meet with Mr, and Mrs. Whitehead in Hartland the first Saturday in November.—Miss Mary E. Openo. Cor. Sec.

A Meeting of Unusual Interest.—The September meeting of the Maple River Farmers' Club was entertained at the beautiful home of Mr. and Mrs. E. N. Waugh, Club members and invited guests considered it too rare a privilege to let pass by, so all whose duties possbly could allow, united in making the meeting at the home of Mr. and Mrs. Waugh one of unusual interest. Some came in a spoke and added to the program of the afternoon. "General Improvements," was the subject most ably handled by W. A. Seegmiller. But with all the beautiful maples and evergreens that surround the Waugh farm and the general neatness and good taste in the interior of the home, the situation and instruction was not so easy as it otherwise might have been. However, his talk was instructive and thoroughly enjoyed and brought out a lively discussion. The meting closed with a song, and the company assembled on the lawn where a sumptuous dinner was

will come in the farmer's most valuable asset.

CLUB DISCUSSIONS.

CLUB CLUB CRAWNERS on the company assembled on the lawy where a company assembled on the lawy where a company company was and the company assembled on the lawy where a company company was and the company assembled on the lawy where a company company was and the company assembled on the lawy where a company company was an acceptant to a company company was an acceptant to a company company was an acceptant to a company company where a company company was an acceptant to a company company was a company of the company acceptant to a company company was an acceptant to a company company was a company of the company acceptant to a company company was a company of the company was an acceptant to a company company was a company of the company was an acceptant to a company company was a company of the company was an acceptant to a company company was a company of the company was an acceptant to a company company was an acceptant to a company company was a company company was a company company was a company company company was a company comp

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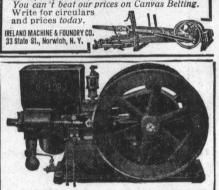
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At once a few men, who are hustlers, for soliciting. No experience necessary.

The work is dignified, healthful and instructive. In writing give references and also state whether you have a horse and buggy of your own. Address BOX J. F., Care Michigan Farmer, Defroit

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And every Overland value increase is just as visible, just as conspicuous and just as actual as the material reduction of our selling price. While other manufacturers refer you to more comfort, more grace, sweeter running motors and other invisible and more or less imaginary incidentals, we give you in addition to more comfort, grace and beauty, increased value that is substantial and tangible.

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

But the price is lower than ever.

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

But the price is lower than ever.

The tires are larger—33 x 4 in. Q. D. But the price is lower than ever.

The equipment includes such costly additions as electric lights all around—head, side and tail even under the dash.

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

But the price is lower than ever.

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

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

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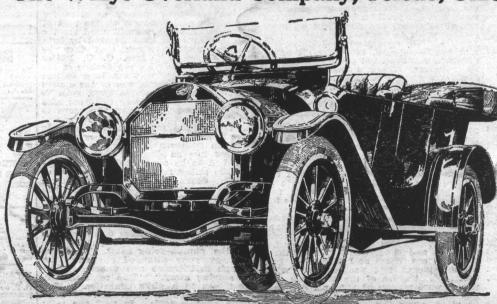
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Handsome 1914 Catalogue on request. Please address Dept. 86.

## The Willys-Overland Company, Toledo, Ohio

Electric head, side tail and dash lights Storage battery 35 Horsepower motor 114-inch wheelbase Timken bearings Splitdorf magneto Model R Schebler carburetor Three-quarter floating rear axle 33 x 4 Q. D. tires Cowl dash



Brewster green body with light green striping, nickel and aluminum trimmings

Deeper upholstery Mohair top, curtains

and boot Clear-vision

windshield Stewart speedometer

Electric horn

Flush U doors with concealed hinges