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### DETROIT, MICH., SATURDAY, OCT. 22, 1910.

FARM NOTES.

The Potato Crop.

By the time this issue reaches the reader the bulk of the potato crop will be out of the ground. Of course, there will be cases in which the grower has been unable to get at the work as promptly was expensive, that in the ordinary sea- of the soil somewhat looser and rougher, would like, owing to conditions over which he had no control and, as in any to dig well along toward the first of November. In cases where the digging has Lessons Learned from the Season's Exbeen for any reason belated until after hard freezes come and some of the tubers get frosted, the problem of their care and disposition is a serious one. cases the best thing to do with the frosted tubers is to pit them in the field and allow them to remain in the pits until about the third week, when they should be removed and sorted and either sold former plan is generally the better one, are held for any length of time, since it and safer to get the ground plowed in set by the danger from late blight, in the potato crop in May, a full month

is extremely difficult to get all of the frosted tubers out at a single sorting. But this is quite impossible if an attempt is made to sort them at once or, indeed, very soon after digging, since they will not all show the effects of the frost at that time. If allowed to remain until about the third week before this sorting is done, they will be in the watery stage of rot, so as to be more easily detected, and yet will not have dripped on the sound tubers to any extent so as to soil them and injure market quality. their Proper attention given to the problem of caring for the frosted potatoes, where one is so unfortuto have any frozen before digging, will save much trouble and loss.

It is better to pit them in the field so that they may be sorted by daylight, since it is extremely difficult to do a good job of sorting frosted tubers in a weak or artificial light. Simply opening the cellar doors and windows where they are put in the cellar as soon as dug will not afford sufficient light to do a good job of sort-

to be hurried or to be trusted to inefficient labor. Of course, it is much better to begin the work of potato digging in weather. It is a great temptation in a season like the present to leave the crop in the ground as long as possible in order that the potatoes may ripen and their them a little green and handle them as carefully as possible than to take any great risk of freezing weather. The the favorable growing weather which pre- ed this trouble under precisely similar have not been as troublesome in recent gether too little consideration by the av-

not a little to the yield of the late plant- using a tato crop secured by that time.

perience.

cash crops of any kind should be made tion for the consideration of potato growfuture years. as potatoes that have once been frosted have learned this year is that where the no attention to the bug problem. But result of observation in recent years.

an extra week, but the writer has found which protected it from the scorching from years of experience, some of which heat of the sun. It also left the surface bers as a result of earlier planting. the same conditions recur in future years. Late, vs. Early Planting.

This is particularly im- bug pest. The writer has been in the

vailed after the drought was broken conditions by cultivating the ground im- years as formerly on the late potato crop brought the crop on in fine shape, adding mediately after the potatoes were planted in the writer's locality, and with the not a little to the yield of the late plant- using a wide-shoveled cultivator and modern equipment available for spraying ed crop. Under these conditions there is throwing the dirt over the rows, thus them there need be no apprehensions much to be gained by leaving the crop giving the seed an additional covering about being able to control the pest, even if it should appear in added num-

But this has not been the chief reason son freezing weather may be expected which prevented it from absorbing so for late planting so far as the writer is any time after the middle of October, much of the heat of the sun's rays. This concerned. He has been a believer in the most years, there will be some potatoes and that it is far safer to have the po- is a good point to keep in mind should theory that potatoes need cool, moist weather for the development of the crop, and that consequently the late planted The green condition of the crop at crop, one year with another, would have The season's experience in growing digging time makes it a pertinent ques- better conditions for the production of a good yield than if planted earlier. It is to yield some helpful ideas to every farm- ers, whether they have not been in the a reasonable theory that after the fall er who grows them. There are always habit of planting the crop too late. Many rains come the conditions for the growth some points to be learned about any crop have gotten into the habit of planting the of the tubers would be better than in the which may be turned to good account in crop as late as practicable to avoid the drier, hotter weather of midsummer. But results obtained in actual practice are portant with the potato crop, which is habit of planting from the middle to the more convincing than the most plausible or put in the cellar for storage. The one of the leading cash crops in this 20th of June in recent years, and for sev- theory, and the writer has revised his state. One thing which many farmers eral seasons has had to give practically opinions in this regard somewhat as a are likely to need more sorting if they crop is to be planted late, it is far better this advantage is perhaps more than off- neighbor has made a practice of putting

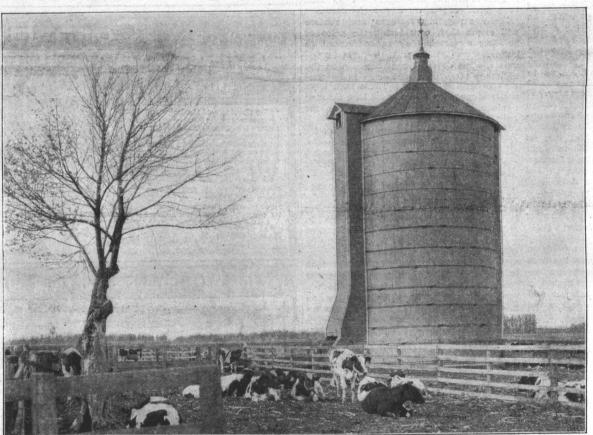
> earlier than have planted, and has gotten as good or better yields others secured planting earlier, and not-withstanding the dry summer has a good crop this year. Another large grower, located in the southwestern part of the state, has for years made a practice of planting his potatoes in April, and has secured uniformly good crops. This man recently told the writer that while his crop was not as good as usual this year, he had about 170 bushels per acre, and enjoyed the added advantage of getting the crop off at a good price, just between early and late marketing season. Of course, this grower uses the most advance 1 methods of culture, uniformly planting the crop on a clover sod and fertilizing it well in addition, which in large measure accounts for his uniformly good yields.

Of course, if all or any considerable portion the late crop were available for marketing early in the season, the price could not be expected to be as good as it usually is at that season of the year under present con-

and has the advantage of reducing the danger from blight to a minimum. This is apparently a problem which is worthy of more thought and experimentation than the average grower has given it, and one which may well receive his careful consideration in the future.



Then there is the question of the kind planting time, and the seed was put in instances have been reported where this of seed to use and when to save it and to a good depth with hand planters, yet welcome helper has actually been seen at how to handle it. The latter problem on some of the lighter portions of the field its helpful work, but most of us are not will be somewil t simplified by earlier present fall has been an unusually favor- the seed was somewhat injured and the close observers in matters of this kind. planting, but the question of the quality able one for securing the potato crop and stand was not perfect. A neighbor avoid- Anyhow, it is certain that potato bugs of the seed is one which is given alto-



A Silo in the Pasture is a New Idea for Carrying Live Stock Over Seasons of Short Pasture.

should be the most brilliant available in to conserve the soil moisture which may has appeared in scattered localities and vantage of having the crop ripen under order that as many as possible of the be needed later in the season. The writ, caused considerable loss to the crop. If normal conditions, instead of being cut frosted tubers may be distinguished at er has seen many fields of potatoes this this were the only question to be settled short in growth by the frost or being dug the first sorting. It is most important year in which a very poor stand was sethat this job be thoroughly done where cured, just because this precaution was planting, the advantage would appear to it is necessary at all, and it isn't a task not taken. The exceedingly hot and dry be with the early planting, since if we early planting would get the work out of weather which prevailed at the time the are to choose between spraying for bugs the way before the corn planting season, bulk of the late crop was planted de- or for protection against blight, there is stroyed the vitality of the seed and made no question that it would be cheaper to time to avoid all usual danger of freezing the stand scattering and poor on many protect the vines from the bugs by sprayfields where the ground had not been ing. The reported appearance of a paraplowed early and the soil moisture well site which destroys the potato bugs in conserved. Even where there was plenty certain sections of the state may have of moisture in the soil some of the seed something to do with the greater freedom skins harden down so as to avoid peeling suffered on this account. The writer's which we have enjoyed from this pest in in handling. But it is far better to dig potato ground was in fine condition at recent years. It is true that but few

ing, and if artificial lights are used they good season and work it over occasionally which, while not particularly prevalent, ditions, yet there would be the added ad-

S COMME

CHICK GROWER

one in the second

largely attributed the tendency of once This report of the prevalence of this ingood varieties to run out and become sect in our state should, however, make unprofitable to cultivate. As before not- potato growers watchful for its presence ed in these columns, the plan of saving elsewhere, to the end that precautions the best hills for planting in a seed breed- may be taken against its greater prevaling plot from which the seed for the fol- ence next year. lowing crop is saved, is the best one. But this will not be done by the average grower, at least until the necessity of it has been brought home to him more forcibly than it yet has. But where the seed is selected from the crop after digging time, a little good sense applied to the proposition will bring profitable results. The very large potatoes should not be planted, as these usually come from hills which yield but few tubers, and they are not desirable from a market standpoint, Nor yet should the very small tubers be planted, as they are often the product of weak plants. But if the good shaped, medium-sized potatoes, the size of a hen's egg or a little larger, are selected, they are more than likely to have been produced in hills that gave a large number plows and harrows. of marketable tubers, especially if they are ideal in shape, since the tubers of similar size which grow in the weaker hills are generally more elongated than the standard shape for the variety. Thus when the erop is marketed it will be an easy matter to select potatoes of a desirable size and shape for planting, while if the selection is left until planting time there will be no choice except to plant the best of the small tubers or plant them just as they grew, big and little included. The method of selection above advocated will secure a natural selection of the best type for seed, which is the next best thing to growing the seed in a seed-breeding plot as previously described and advocated in these columns, and such selection should not be delayed until after the main crop has been marketed.

The Potato-Stalk Weevil.

An Alpena county subscriber asks for information regarding the cause of potato vines dying in his field. He has found patches of dead vines scattered through his field of potatoes, and on pulling some of these dead vines has found a fly or beetle in the root, which he thinks gained entrance by cutting a hole in the stalk near the surface of the ground and burrowed its way into the root. While this insect pest is not so common in Michigan potato fields as to attention, it is not now, and is widely distributed over the country. It has not, however, caused serious damage to the crop in many sections of the country, although it proved to be rather a serious pest in Kansas as long ago as 1897, and has been troublesome in other sections of the country at different times. This insect is commonly known as the potato-stalk weevil. Its life history is as The mature female makes a follows: small slit in any portion of the stalk in which she deposits a single egg. In a few days this egg hatches into a minute grub, which immediately penetrates the stalk and commences to eat its way down through the center. The channel made at first is so small as to be scarcely noticeable. As the grub grows, it makes a larger channel. In places it turns and When it has bored as far down into the root as the diameter of the stalk will permit, it turns about and enlarges the lower portion of the channel to a little of this channel a hole is bored outward through the woody fiber of the stalk, but not perforating the bark. It was at this point that the inquirer mentioned above the matured insect to emerge from the stalk. This work completed, the grub tered. descends to the bottom of the cavity, beetle is hatched, but remains in the December. its protecting cover repeated.

soon after the crop is dug as practicable. machinery under shelter. This will destroy most of the matured beetles, and the pest could be easily ex- chinery, and seemingly cannot learn to terminated in this way were it not for use and care for it properly. Right here the fact that it also infests some weeds I want to say, that if they can make that are related to the potato family, be- money farming and pay big bills for maing found in some of these weeds in chinery every year, they are wonders. greater numbers than in the potato plant. Farming, like any other business, has to But the burning of the vines from infect- be watched in the little as well as the big ed fields and the keeping down of weeds things. Leakage along this line will keep in waste places about the farm will serve any farmer poor unless he has some to check the development of these insects other source of income. to an extent which will cause any con-

erage grower, a fact to which may be siderable loss from their depredations

### CARE OF FARM MACHINERY.

In traveling through many a farming community at this season of the year the careful observer is struck by the amount of expensive farm machinery left standing in the fields exposed to the deleterious effects of sun, rain and the snows that will come later on in the winter. Binders are often seen standing in the oat field where the team was unhitched, and grain drills where the fall seeding was finished. Double cultivators rest with tongue reared over the corn field fence, and the fence corners seem to be the natural habitat of the small cultivators,

An occasional farm will be passed where the implements have been gathered in from the fields and huddled in an indiscriminate mass at the end of the barn, the owner seeming to think his duty done in housing his mechanical helpers

The fact, too, will be noticed that a farm where no machinery can be seen standing exposed to the elements wears a general air of thrift and prosperity. The buildings are usually in good repair, fences are kept up, good stock is in the fields and an atmosphere of peace and plenty prevails.

On farms where the machinery seems to be sheltered by the great outdoors just the reverse is usually noticed. The carelessness shown in taking care of the farm implements is manifested in other ways about the farm.

Buildings and fences are neglected, and the whole place has a general run-down appearance. A farm will be seen occasionally where the machinery will be unhoused and the buildings and fences in good repair; but these are exceptions, and neglect of farm implements seems to lead to general untidiness about the farm.

Many struggling farmers and renters will argue that, considering the price of building material, they cannot afford to build houses to shelter their farm implements. They store what they can in the tuildings they have, and seem to be content to let the rest go. These men have never stopped to figure their loss through neglect of their machinery. They see only one side of the question.

Many careful farmers use machines for ten, fifteen, and perhaps twenty years, which, in the hands of careless ones, would be in the scrap heap inside of five years.

If the farmer who says that he cannot afford to build sheds for his farm machinery would use more care in operating it, and borrow money, if necessary, in order to house it, he would be astonished to find that he was making money by so doing.

Machinery is costly. The farmer who is compelled to lay out large sums every years or two for implements to do his work is bound to have his nose on the enlarges the channel, which weakens the grindstone all the time, unless he has an income outside the farm.

It is possible to get some idea of the pecuniary loss caused by carelessness in this regard, but it is impossible to figure above the level of the ground. At the top the loss of time caused by tinkering with rusty, neglected machinery. A machine that is carefully operated, and housed when not in use, is bound to do better work, year in and year out, than one that thought the insect entered the stalk, but is abused and exposed to the weather, or, in reality this is the place prepared for if housed at all, is left in the field to gather a coat of rust before it is shel-

I know of a young farmer, who was weaves a cocoon and passes the pupal compelled through lack of barn room, to Later in the season the matured leave his binder unhoused until late in He had always been very stalk, passing the winter season within careful of his machinery, I believe a little average farmer but it tool way out of the hole prepared for its exit him some time to prepare a place for his as described above and the life cycle is binder, but the time he lost at the beginning of the next harvest in getting that This makes the remedy obvious. The binder in working order convinced him thing to do where this insect is prevalent more than ever that it paid, and paid big, is to gather and burn all potato vines as both in time and money saved, to keep

Some farmers know nothing about ma-

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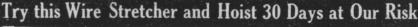
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### CLOVER CORN AND CATTLE.

It seems that one could not write three words that mean much more to the uplifting of agriculture and the prosperity of the world than these words. Clover corn and cattle. Each one depends upon the other for its development. If you have cattle you can generally have clover and if you have clover you can have corn and, if you have the clover and corn you can have the cattle.

Many articles have been written upon "Maintaining the Fertility of the Soil," and it really depends upon these three

Each and every farmer must farm his laid in accordance with his location, kind of soil, and that particular kind of farming he likes best. If he is born a dairy man and his situation for such is good, then he should be a dairyman. If his hobby is for sheep, then he should feed sheep, and if he should like cattle then he should be a cattleman. And if he should like them all then he can be engaged in general farming.

I am going to tell you now how I get my clover corn and cattle. great many farmers overlook the fact that the clover seed should be covered with some amount of soil. I sow my clover seed in the spring after the ground has settled and if the soil is not too hard, at the rate of a bushel to eight acres. sowed 85 acres last spring and then we dragged it with a spike-tooth drag with sharp teeth. The dragging doesn't hurt the wheat but seems to do it good. Then we followed with the roller and this pressed the soil down upon the seed and made the ground smooth for the binder.

We top-dressed 18 acres of this wheat with barnyard manure last winter and upon this the catch was best and most of it lived through the dry weather, but the other fields were hurt some. have followed this plan for a good while and have very good results but I do think it does the most good on the lighter soils.

Next comes king corn. I like to plow the ground for corn as early as possible and follow the plow with the roller if the soil hasn't got too much clay in it. Fit the ground thoroughly and make a good seed bed and do not plant the corn too early if the season is late. Do not expect a large corn crop from a poor field. Build up the soil with manure and clover and then you can get the corn, providing you have the moisture and good seed. I try to test my seed corn and know it pays well for the time invested. I did not test all my seed last spring as I planted 75 acres and I did not get it all tested out. am making a tester now that I will tell you about later on. Good ground, good seed, good care with good tools, and a good hired man with a good team are the things for a good corn crop. I have seen hired men go into a corn field with a cultivator that actually cultivated the weeds instead of the corn.

I commenced planting May 21st, and finished June 1st. One field I had to drag up June 17th and plant over again. This will be a fair piece of corn but the dry weather held it back a great deal. I drill my corn with a horse planter from 11 to 13 inches apart and 3 ft. 8 in. wide. The 11 inches is a little thick in a dry season but it makes good corn for the steers. Some people think that a steer cannot eat a large ear of corn. I have been bothered more getting the ears for them than by their not eating them.

I cut the corn with the corn binder and set it up in good shocks, well bound. If I wish to sow the ground to wheat I cut on one side of the field and then throw out two rows of bundles and sow the strip and then set up the corn. We pick up the ears the binder knocks off and feed them to the hogs and cows and crib the surplus in a well aired crib. The ears can be picked up faster than you can husk them out of the shock. I really do not think there is much made by having the corn binder only that I do not much corn and I want it bound up for feeding the steers. When the corn has cured out and the weather dampens up then I draw and stack the corn in the bundle close to the steer barn. I stacked some two thousand bushels last fall and didn't find any of it moulded or spoiled. This fall I shall probably stack about 60 acres for the steers and cows. The steers fatten better on the bundle corn if properly put up, than they do on the husked

In the spring I will have the manure from all the corn and hay and stalks and from 92 acres of straw threshed into the feed yards. This will all be put back on the land for more clover and more corn. CHAS. GOLDSMITH. Jackson Co.

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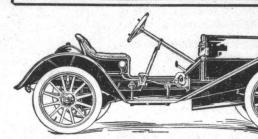
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HOGS OBJECT TO SMUT.

We had some wheat screenings ground to feed to spring shoats. There was some cness and considerable cockle, also some smut of wheat, but the largest portion was small kernels of wheat. The shoats make a great fuss about eating it. We would like to know whether it is the smut, cockle or chess that makes it so undesirable for the pigs. Is there any nutrition in the cockle and chess?

Tuscola Co.

Probably the smut in the wheat screen-

Probably the smut in the wheat screenings makes the feed unpalatable for the We have no data at hand regarding the value of cockle seed as a hog feed, but it is probable that it is less objectionable to the hogs than the smut, which in addition to having no nutritive value is known to be injurious to stock when they are compelled to eat it in quantities. It would appear to be more profitable to use this wheat screenings for chicken feed, as the chickens will discriminate against the smut bolls, and will not get as much of the smut as the pigs do for that reason.

### THE RAM AT SERVICE.

Nothing is more vital in the manage-The prevalent practice among flock owners at mating time is to turn the ram into the flock and allow him to run at chances are fairly favorable to insure a goodly per cent of ewes with lamb at first service. But so many varied factors enter into the successful mating of breeding ewes that it is not always safe to be content with simply allowing the ram full sway even in view of the fact that from all external evidences he is in the best physical condition.

The flesh condition of the breeding ewes, the vitality of the ram and the character of the season are all potent elements in influencing successful mating. The flock owner who goes about his work in a haphazard manner at mating time very apt to invite evil if not heavy Under domestic management sheep become delicate breeders and instances are frequent where ewes fail to breed. The flock owner who is desirous of securing a large percentage of lambs in the fall should ignore nothing that directly influences successful mating of the breeding ewes

The initial factor to be taken into consideration in the management of the ram at service is to determine as far as possible his degree of vitality. Because a male is in good health it does not necessarily follow that he possesses the essential prepotency to transmit his desirable characteristics. It is conceded by experienced flock owners that it is inadvisable to rely entirely upon external manifestations to guide one in the computation of the breeding qualities of a male. A young male is much more uncertain at mating than a yearling or two-year-old, and if the latter has been proven to be a sure breeder, results are more cetain. But the flock owner who is using a ram lamb to head his flock has a double responsibility to shoulder, and upon his attention to both ewes and ram largely rests his success.

The ram possessing the essential qualities denoting thrift, vigor and constitutional development can invariably be relied upon to successfully mate with a reasonable number of ewes in good breeding condition. The amount and character of the flesh carried by the ram at mating indicates to no small degree his reliability as a lamb getter. Many flock owners the ram ought to be in high flesh condition at the beginning of the mating period to insure a resource upon which the system may draw to replenish the reproductive organs. While the ram should be in thority of Secretary of Agriculture Wilcause fatigue or exhaust the stored-up dition on the farms of the United States energy in the muscular system.

stock getter will be determined by the any other portion of the Union, the numduring the few weeks previous to mating. being 4.9 per cent larger than on the corrapidly and unless the ram has been im- ago.

properly cared for he will be in excellent condition to undergo preparation for mating. It is not advisable to put the ram upon tender succulent pasture during the preparatory period. Better by far turn him upon an old rasture or meadow where the forage is of good quality and of a highly nutitious character. It is not the object to cause taking on loose fat, but flesh of a firm, compact nature.

While the ram is being prepared for mating he should be secluded from the rest of the flock where he will not worry or become irritated from seeing other sheep. The pasture should be large and spacious. If possible, the pasture lot should be near the buildings where special attention can be paid to supplying a light grain ration to supplement the daily pasture. Oats, bran and a small amount of oil cake compounds one of the best rations for a ram during the preparatory Corn should be eliminated from the ration during the preparatory process. A limited amount of supplementary forage like rape may be fed to advantage to the ram, but not in excess of what he will readily clean up.

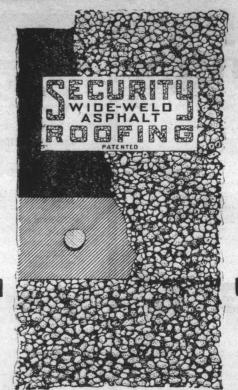
Flock owners vary widely in their opinion as to the most practical method of handling the ram during the mating sea-As a general rule, however, it is thought by experienced flock owners that if the ram is not mated with too many ewes and given proper care it is all right ment of the breeding flock at mating time to allow him to run with the ewes, pro-than the care and feeding of the ram, viding he is removed morning and evening and given a feed of grain. I have practiced removing the ram during the daytime and allowing him with the flock will. If the animal is young, thrifty and during the cool of the evening, but under of good constitutional development the ordinary conditions it involves a large amount of additional labor, without any noticeable results. Attention should be paid to keeping the ram in good flesh condition while at service and not allow ing him to become thin and run down.

Shiawassee Co. LEO C. REYNOLDS.

### ECONOMY IN HORSE BLANKETS.

Horse blankets are a necessity upon every farm. Every farmer well appreciates the fact that his horses need protection when they are hitched out of doors during cold or stormy weather, as is almost daily necessary, but while all readers will agree as to the economic necessity of using horse blankets, not all appreciate the fact that it pays to use good blankets, bearing the trade mark of reliable manufacturers who are ready to stand back of the quality of their goods. Such blankets cost a little more at the start, but will last longer in service and afford much better protection to the horses, than a cheaper kind, which are jobbed without the manufacturer's guarantee or trade mark. While every farmer appreciates the necessity of having blankets to protect his horses out of doors, not all, and probably not a majority, appreciate the fact that there is economy in using blankets in the stable. The saving of labor in grooming the horse, his improved appearance which is the result of shorter and sleeker coat of hair, together with a saving of feed, due to the fact that less of his rations is needed to keep up the animal heat in cold weather, and his greater utility in the harness due the fact that he will perspire less freely, will all argue for the use of stable blankets upon the horses which are to be worked or driven during the winter months. Here it will pay better to use a good grade of blanket than for use out of doors, because the blankets are in use continually and the cheaper and poorer quality will soon become worn and use-Always have a reliable manufacturtrade mark upon the blankets you buy. Some of the better blankets will be found advertised in your farm paper, because it pays to advertise goods that give good satisfaction in wear, but it make a serious mistake in thinking that does not pay to advertise poor goods, neither does it pay to purchase them.

good flesh he ought not carry any large son, gives detailed information concerning amount of surplus fat that will tend to the number of stock hogs and their conon September 1. The report shows that No little consideration should be direct- farmers in the north central states east ed at this time to the preparation of the of the Mississippi River devoted more atram for service. Half his worth as a tention to hog culture than farmers in character of the preparation he receives ber of stock hogs on farms in those states As a general rule, the ram is in fair responding date in 1909. Of the five flesh condition at this time of the year, states in this division Ohio makes the With good pasture during the summer best showing, with 10 per cent more hogs season flesh formation takes place very and a condition of 97, against 95 a year



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### THE MICHIGAN FARMER.

ADVANTAGE OF SILAGE AS A FEED are of much permanent use. The old FOR FATTENING LAMBS.

When asked by the editor to give my opinion concerning the advantage of feeding silage to fattening lambs, I was almost surprised. In our locality the use to calve in, and for the calf to be received of silage to fatten all kinds of stock is so general that we hear very little discussion on the subject. Almost all the feeders is not always practicable. that operate on a large scale, as well as many that combine feeding with dairying, make use of the silo.

Good clover hay, with plenty of corn, bran, oats and a little oil meal will make writer, but to procure enough clover to do not agree with this. feed a large number of lambs is rather an expensive operation. By feeding en- ism into the calf's intestinal tract are bean pods or clover hay once, the rough navel. Immediately it will be seen then, feed lasts much longer. In fact, it is how important it is that the causal orabout doubled so far as results are concerned.

It pays to buy grain to feed lambs, one year with another, but if the hay has to The calf, being born, its mouth and be bought as well, especially if it has to body should be freed from any uterine be hauled a very great distance, the prof- envelopes and secretions, and the cow's its, other than procuring fertility for the farm, are apt to be small.

solving the question of how to provide by way of the unhealed navel. One point, rough feed enough to carry the amount after the calf is born, must not be overof stock we like to have on the farm looked: Diarrhoea may arise from indithrough the winter, and have become convinced that lambs that are being fed this way it will be of a different type for market, as well as breeding ewes and from that chiefly referred to here. The cattle of all ages, all thrive best when disease usually appears during the first

soiled earth in the stalls and cow sheds, where the disease has existed, should be dug up, intermixed with lime and re-sur-faced. Everything should be done to have a clean, sweet place for the mother into. All this trouble can be obviated if the cow calves in the open field, but this

The most recent research gives the cause of the disease as an organism called a pasteurella, which is found-with many others-in the discharge from a calf's intestines, when suffering from as good lambs as any feed known to the white scours. All authorities, however,

The ports of entry of the micro-organsilage once a day, shredded corn fodder, probably by the mouth and the unhealed navel. Immediately it will be seen then, ganism should, by thorough cleanliness be removed as far as possible from these ports of entry.

The calf, being born, its mouth and udder and her perineal region and her tail should be cleaned. Again, the mi-We have found the silo a great help in crobe may gain entrance from the ground gestible food being given, but arising in

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part of the ration.

ble arising from the use of silage has calves much older may be attacked, and come from poor silos or the use of corn put in before it has become ripe enough. from which the disease may be spread. It should be about ready to cut and shock Hence the importance of keeping each before it is fit for the silo, and then, too, we prefer to feed it in connection with dry feeds rather than try to make it the sole feed.

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### DIARRHOEA IN CALVES.

This is a disease well known to stock raisers. Investigations have been wife, extended, and searching as to its origin. It cannot be said that scientific men are yet all agreed as to the organism of the disease, yet fairly successful measures have been taken to check it.

Like the poor, however, the complaint are reasons for this.

Any old barn or shed is good enough have been lately largely used. for a cow to become a mother in, any and filth-besodden dirty floor enough to receive a newly-born calf. This has been successfully used. The theory disease is allied to the so-called "filth of this treatment is based on the fact diseases" of the human subject. Through that a specific microbe attacks the body, generations of animal life parturition has multiplies in the blood and produces a been effected oftentimes in the same old given disease by the development of a stalls or sheds, and for generations calves have suffered from this diarrhoea. One is also produced at a later stage. noted authority says that the disease arises from the excreta of previously dis- in sufficient quantity attacks, fights and eased calves. Is it to be wondered at destroys or renders inert the specific then, that calves newly born on a soiled, microbe of the disease. If it is proved contaminated floor should suffer from the complaint? Is it a marvel that the vet- all that is claimed for it, then all newlyerinarian is handicapped to start with, in born calves should be inoculated in the THE NEWTON REMEDY CO. with it successfully from a preventive inated against smallpox. any dealing with this disease? To cope same manner in which children are vac-

silage, fed judiciously once a day, forms week in the calf's life. Stinking, semifluid feces of a yellowish white color es-It is our opinion that most of the trou- cape from its bowels. In other cases any calf attacked may furnish a focus cow and calf as much as possible separate, and to instruct the man attending an afflicted calf to be as particular as possible as to his personal cleanliness and that of his utensils.

> As the diarrhoea advances, it becomes bloody (dysentery). A discharge comes from the nostrils, the joints may swell, and the animal dies, a pitiable object.

Many medicinal agents have been used in the local treatment of the disease, and fair success has been attained by means of them where the rules of cleanliness and hygiene have also been observed. Probably lime water, bismuth, chalk, chlorodyne and aromatic ammonia have seems to be always with us, and there had the greatest vogue. In Germany preparations of tannic and gallic acid

Local treatment also comprises disinclean fecting of the navel. Calf scour serum, particular poison-toxin. An anti-toxin

This anti-toxin injected into the patient conclusively that this serum treatment is

W. R. GILBERT.

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 some one else. When reply by mail is requested, it becomes private practice, and a fee of \$1.00 must accompany the letter.

Fistula of Withers.—I have a horse that has a sore on top of shoulder that discharges pus and I have failed to effect a cure. C. W. P., Royston, Mich.—First apply peroxide hydrogen, ten minutes later apply one part carbolic acid and 20 parts water; these applications should be made twice daily. Apply boric acid to chickens eye once a day.

Spinal Disease.—I have a filly 16-mos. old that is either sick or has injured herself in some way. She will travel all right for some distance, then her hind parts seem to wobble and not follow in line with body; when first taken her neck was stiff. Have applied liniment to neck, and am giving one teaspoonful Fowler's solution at a dose night and morning, also 30 drops nux-vomica at noon. The colt was well in the evening and in bad shape the next morning. W. D. R., Ionia, Mich.—Your colt may have met with an accident to neck, or she may have chilled bringing on congestion of spinal cord. Give ½ dr. ground nux-vomica and 1 dr. iodide of potash at a dose in feed two or three times a day. A young colt should recover from an ailment or injury of this kind, but slowly.

Diseased Scalp.—I have a four-year-old mare that is troubled with an itchy condition of the scalp of mane every spring and summer; she uses her hind feet to do into or uho on something else. A. L. T., four parts of fish oil and five parts raw liniseed oil and apply to itchy scalp or other itchy parts of body every two or other days. When you decide to wash off this dope dissolve one ounce of sal-soda to each quart of warm water.

Navel Infection.—I have a colt that leaked at navel when he was a few days old and there is a bunch on knee which appeared about the time I first noticed his leaking water. Having noticed in the April number of The Farmer an inquiry about leaky navel, and your remedy for same, I applied it with good results, but the bunce on knee wish of the parts spirits camphor to Royal Salamost healed and the colt is now past three weeks old. W. G., Climax, Mich.—Apply one part induced on stifle two or

salts, also give two tamespectures and cinchona, at a dose in feed three times a day. She should be fed on milk-producing food.

Indigestion.—My eight-year-old mare hase not been digesting her food properly for several weeks past. I had her teeth floated, but this failed to do much good; have watered her both before and after meals, and can see no difference in her condition. Have fed her ground oats, also whole oats and mixed hay. She has a good appetite, but is gradually losing flesh. C. E. H., Cornelius, Oregon.—Mix together equal parts by weight, powdered sulphate of iron, gentian, ginger, fenugreek and rosin. Give a tablespoonful at a dose in feed three times a day.

Surfeit—Eczema.—I have a two-year-old colt that seems to have some sort of skin trouble affecting the head, neck, shoulders and fore legs. She has been troubled more or less for the past 90 days, the sores never break open. Small pimples raise up on skin and soon dry. She bites herself and acts as if very itchy. Have tried several different kinds of lotions without result. S. H., Ludington, Mich.—If the colt has a long, rough coat, clip him. Give 2 drs. Donevan's solution of arsenic at a deein feed three times a day. Apply one part oxide zinc and eight parts vaseline to itchy parts every day or two. He should be washed with warm soap suds once a week while this mad every has a days.

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THE BIG VS. THE SMALL POULTRY BREEDER.

An article in a recent Farmer, the writer of which seems to prefer securing new blood for the poultry flock from the one-variety breeder, set me thinking. I own that I cannot subscribe to all of the statements made, and I believe that I am unbiased, for I belong to that very large class of farmers who make poultry a more or less neglected side line, and who depend upon the occasional introduction of new blood for whatever improvement is made in the flock from year to year. What the condition of our flocks would be were it not possible to thus occasionally secure a fresh start in the way of breeding stock is not pleasant to think about, and therefore it seems to be that we are, in no small degree, indebted to the men who make the breeding of purebred poultry a business and a study. The wide-awake farmer, with many and diversified erops and products, realizes that he cannot give his poultry the attention necessary to prevent the flock from deteriorating through inbreeding and accidental crossing, and so he has come to regard the so-called professional or expert breeder of poultry in the same light as he does the careful breeder of any line of pure-bred and registered live stock, the man who makes a specialty of growing certain grains, vegetables, etc., for seeding purposes. Such breeders have become an absolute necessity, and to them, in my opinion, is due much of the credit for the steady advancement of the poultry industry in recent years, Now the more completely the time and

attention of these breeders are devoted to this one industry the greater the confidence they inspire. It is asserted that the man who handles many breeds cannot give to each the same attention that is bestowed by the breeder of but one variety. Granting that each gives his whole time and study to the work in hand, this is perhaps true. But it is the exception to find a breeder of one variety who gives all his time to the business. On the other hand we must not overlook the learned the business from the ground up. It cannot reasonably be assumed that he jumped into the business yesterday, nor that he is a born poultryman. In all probability he was a one-variety breeder such care and study as seemed necessary brought some new problems, but these were finally mastered and then came the determination to make a business of breeding poultry. Other breeds were breeding poultry. added as fast as the plant could be extended and facilities for handling them provided. To my mind, the fact that such breed-

ers understand far better than does the are absolutely essential to the greatest success in poultry growing, argues that it is folly to assume that they will court disaster through lack of care and vigilance. They understand better than anyone else the precariousness of inbreeding and of cross-breeding. In my opinion, there is little danger of accidental crossing upon the well-managed poultry farm, even though a dozen different breeds are kept. It is true, that some breeders, who go into commercial poultry raising on a considerable scale, practice Italian queens. the crossing of two pure breeds for production of market fowls, for the.

THE LARGER BEESWAX MOTH.

While removing a section of honey from a hive of bees I discovered five grub-like worms, two of which I am forwarding you under separate cover. Would like to know the name of pests, also some way of ridding the hive of them.

Lake Co. R. E. W.

Reply to the above has been delayed, owing to the fact that the grub-like worms mentioned were nearing the chrysalis stage at the time of their arrival and a few days later were securely enclosed in compact white cocoons. It was deemed impossible to accurately identify them at that time and the box containing the cocoons was therefore laid aside. A recent examination revealed a brown moth which had issued from one of the cocoons. This moth proves to be one of the bee moths with which most bee-keepers are familiar. There are two kinds of the bee moth, one being known as the larger beeswax moth, the other as the lesser beeswax moth, or the honeymoth. As the names indicate, they differ in size. They also differ in color, the larger moth having a reddish-brown head, while the forward pair of wings are brown, shading off to a light grayish-brown at the outer ends and along the rear margins. In the smaller species the general color is a dead gray, the head being yellow. The body of the moth which came from the cocoon above referred to is a trifle over one-half inch long while the spread of its wings is nearly 11/4 inches. moth of the smaller species is fully onethird smaller.

The larger species is the more destructive of the two. However, this pest is now not much dreaded by experienced tee men, for the reason that almost any strong active colony of bees will quickly clear their hive of the moths and of the grubs or caterpillars which may hatch from their eggs. This is especially true of Italian colonies, apiarists having all Italian colonies going so far as to assert that the bee moth has practically become extinct on their premises. It must be understood, however, that the hive must contain no moth harbors if the bees are depended upon to drive out the pests. Crevices large enough to admit a worm but which exclude a bee are almost sure to cause trouble. The time was when fact that the breeder of several breeds so-called moth traps were considered esis, in most cases, not only giving poultry sential adjuncts of hives but they have his entire attention but that he has long since been discarded, it being claimed that in fitting the traps to the hives harbors for the pests were created which were not present in ordinary hives.

That these grubs infest your hive seems likely to be due to one of two things: at the start, giving to his chosen breed Either the colony has become rather weak in numbers, or the hive is so conto insure the highest success. The intro- structed, or so in need of repair, that it duction of another variety or breed has afforded opportunity for the moths to gain a foothold. If the colony is weak, unite it with another weak colony if you have one, making sure that the united colony is in a hive which offers no protection to the pests. If the hive is at fault, transfer the colony to a better hive. Some bee-keepers declare that an Italian colony will clear the worms from a frame in a few hours, so if you quesaverage poultry raiser the conditions that tion the ability of the united colony (which we assume is composed of ordinary black or hive bees) to clear the frames it might be well to have this work done by the Italian colonies, in case you have such, placing one frame in the center of each Italian hive. If the fault is not with the hive, and if the colony is a good strong one, then the trouble would seem to lie in the indisposition of the bees to drive out their enemies. In that case it would seem advisable to Italianize your bees by securing and introducing

### STATE BEE-KEEPERS TO MEET.

it is well known that a first cross is generally superior to a pure-bred for this purpose. However, it is equally well known, especially by the experienced breeder, that it is suicide to go beyond the first cross, many a breeder having acquired this knowledge through bitter experience. Would that the poultry raising farmers of the country were as well informed as to the foolishness of using a cross-bred fowl as a breeder! With this knowledge in mind the breeder who markets cross-bred poultry takes extra precautions to keep his breeding stock pure.

As to the statement that it is impractical to keep a variety of breeds upon restricted range, it is disproven by the existence of hundreds of successful poultry farms in all parts of the country, and by the further fact that most of our experiment stations maintain good-sized flocks of various breeds, the purity and quality of which are unquestioned.

Branch Co.

STATE BEE-KEEPERS TO MEET.

The annual meeting of the Michigan Bee-keepers' Association will occur at Grand Rapids, Wednesday and Thursday, November 9 and 10. A list of more than a dozen topics of live interest has been announced and the presence of a dozen or in a treatment of country's most prominent bee authorities, who will lead in the discussion of the topics, is promised. Every-one in attendance will be expected to add to the value and ir' rest of these discussions by asking questions and by contributing brief hints and suggestions born of his own experience. In addition to a number of complete exhibits of bee-keepers' supplies there will be an exhibition of apary products, first, second and third prizes having been offered for the following: Best 10 sections of comb honey; best 10 jars of extracted honey; best 3 sections of white comb honey; cleanest sample of 10 lbs. of beeswax. Sweep-streament stations maintain good-sized flocks of various breeds, the purity and quality of which are unquestioned.

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N. A. B.

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Can be made of many ordinary 'home'' dishes by adding

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Two dozen or more simple inexpensive dainties that will delight the family.

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More eggs this Fall and Winter if you adopt my new poultry and egg method. Two years ago I discovered and perfected the most successful and profitable poultry known. The secret of how to make one hunslay eighty eggs a day. Sent on FREE TRIAL; sed to make the hens lay before you pay. MRS. L. ALLEY, Box D, New Madrid, Mo.

WE will have a few ckls. to sell from Barred and Black Minorcas and White Leghorns. Write for prices. H. H. KING, WILLIS, MICHIGANTI.

White Wyandottes The Franklin Strain, Fstablished 1885, A. FRANKLIN SMITH, R. F. D. No. 9, Ann Arbor, Mich.

WHITE Holland & Buff Turkeys both toms & hens. S C. White Leghorns, Barred Rock Cockerels & pul-lets at reduced prices. B. C. Raymond, Dansville, Mich.

S. C. BROWN LEGHORNS—A fine lot of cockerels for sale at \$1 each and up. Females all sold. LEWIS T, OPPENLANDER, R No. 4 Lansing, Mich., successor to Fred Mott.

WHITE HOLLAND TURKEYS-Toms \$4.00, hens \$2.00. Lelah Mitchell, R. No. 2. Box 105. Hart, Michigan.

YOU WRITE W. J. ROSS, Rochester, Michigan, for those beautiful sable and white Collie Puppies, of the finest breeding, and from stock workers.

TRAINED foxhounds and hound pups for hunting fox and coons. Also collies. Inclose 2-cent stamp. W. E. LECKY, Holmesville, Ohio.

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5,000 Farrets Always buy Michigan fer-better climated. Price list and cir. free. DeKleine Bros., Box 41, Jamestown, Mich.

## THE FEAR OF HUMBUG

Prevents Many People From Trying a Good Medicine.

Stomach troubles are so common and in most cases so obstinate to cure that people are apt to look with suspicion on any remedy claiming to be a radical, permanent cure for dyspepsia and indigestion. Many such pride themselves on their acuteness in never being humbugged, especially in medicines.

This fear of being humbugged can be carried too far, so far, in fact, that many people suffer for years with weak digestion rather than risk a little time and money in faithfully testing the claims made of a preparation so reliable and universally used as Stuart's Dyspepsia Tablets.

Now Stuart's Dyspepsia Tablets are vastly different in one important respect from ordinary proprietary medicines for the reason that they are not a secret patent medicine, no secret is made of their ingredients, but analysis shows them to contain the natural digestive ferments, pure aseptic pepsin, the digestive acids, Golden Seal, bismuth, hydrastis and nux. They are not cathartic, neither do they act powerfully on any organ, but they cure indigestion on the common sense plan of digesting the food eaten thoroughly before it has time to ferment, sour and cause the mischief. This is the only secret of their success.

Cathartic pills never have and never can cure indigestion and stomach troubles because they act entirely on the bowels, whereas the whole trouble is really in the stomach.

Stuart's Dyspepsia Tablets taken after meals digest the food. That is all there is to it. Food not digested or half digested is poison as it creates gas, acidity, headaches, palpitation of the heart, loss of flesh and appetite and many other troubles which are often called by some other name.

They are sold by druggists everywhere at 50 cents per package.

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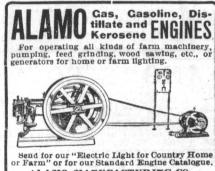
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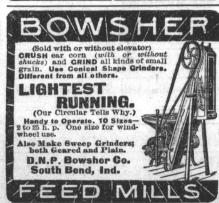
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MENTION THE MICHIGAN FARMER

CONDUCTED BY COLON C. LILLIE.

PUTTING CORNSTALKS INTO THE SILO.

I have my barns full of hay; no place to put my cornstalks. Now would it do to cut them up and have them run into the silo? I have a square silo built of wood, double walls. Have decided to husk my corn, then, if the stalks would keep all right in the silo, they would be very handy to feed.

Allegan Co.

J. H.

Allegan Co.

J. H.

I would like to ask in regard to husking the corn from the stalks and putting the fodder into the silo with the silo filler. Would the fodder be better in the silo than to feed it out of the bundle? I didn't get my silo full with the silo corn and would like to fill it with the rest of my stalks if it will be better, or as good. When the stalks are dry how much water should be put in with it? The corn was cut quite green and is now in the shock. Calhoun Co.

Subscriber,

Although I never tried putting corn-

Although I never tried putting corn-

stalks into the silo, because I never had the silo room, (we always filled the silo with green corn), yet I know of people who have done this and are well satisfied with the results. There isn't any doubt but what you can get greater feeding value out of your cornstalks by putting them into your silo than you can by attempting to feed them in their natural, normal condition. I would not expect that all the stalks would be eaten clean as they would when the corn is put in green, because much of this is not as digestible as it would be put in green, yet all the leaves and the smaller portions of the stalks and husks will so soften by the heating and slight fermentation of the silo that the cattle will eat them and will get a much greater feeding value out of them than as though they were fed dry. But to put them into the silo and have them settle well and make ensilage, you must use considerable water with these dry stalks. It is difficult to tell just how much to use. You will have to use your own judgment. You want a sufficient amount of water to take the place of all of the natural corn juice that has evaporated. Now, how much will to know how both can be all right.

There should be a stream as the advice given in The Farmer and used mostly eared corn. Now some dairymen who have used the silo for five or six years are using the silo corn, which oes not mature ears, and they claim to be getting good results. I am rather puzzled to know how both can be all right.

Manistee Co.

Manistee Co. these dry stalks. It is difficult to tell large as a good sized lead pencil running into the ensilage cutter, or into the blower or carrier part, continuously. This can door, with a faucet so that a stream of water can be controlled and run by means of a small hose from this faucet down to the air take of the blower. This air take of the blower will draw in the stream of water, break it into a mist, mix it with the ensilage and wet it up silo and come out in first-class condition. This is much better than it is to fill into doesn't get to all of the different portions of the cut stalks and some of them will dry mould, while if the water is allowed you are cutting the stalks, all of the stalks become moist and then they settle down and exclude the air and make fairly the cornstalks will be worth much more handled in this way than they will if you attempt to feed them in their normal condition, because we know that much of them will never be eaten if fed dry,

### COST OF A CREAMERY.

Please give me an estimate of the approximate cost of the equipment of a creamery. There are now about 500 cows we can reach and the number will undoubtedly double in the future. Twelve we can reach and the number will undoubtedly double in the future. Twelve silos are being erected now in my immediate neighborhood, and more will be until there is one on every farm, I think. Have got a splendid location with ample slope, bordering on a creek on the west, and on the street on the south. Will have the co-operation of all now, while at this time last year I had but five or six. I. G.

constantly, and while I have answered it perfect. in a general way a great many times, I

28x40 feet. A good substantial building that will answer every purpose can be built for \$1,500 or less.

Equipment:-You want a No. 6 churn with a capacity of 900 lbs. of butter, which will cost \$200; one 400-gal. ripener, \$250; a pasteurizer and cooler, \$390; a receiving vat, 400 gallons, \$70. Set of fivebeam scales, \$30; Torsion balance for testing cream, \$18; 24-bottle tester and glassware for same, \$40; set of moisture scales, cup and lamp complete, \$15; 20 horsepower boiler and 10 horsepower engine, \$300; ten bbl. galvanized tank, \$16; sanitary rotary pump, \$27. Then you will have to have some supplies to begin with and \$150 will be none too much to estimate for the supplies with which to start the creamery. This is the estimate for a gathered cream plant. There is no centrifugal separator. If you have a whole milk plant you will have to add about \$500 for a separator. Many creameries get along at first without a pasteurizer and cooler. This would save in the neighborhood of \$400. In order to have the best control of the raw material, a pasteurizer is necessary and you ought to put it in on the start. This would make the total cost of the creamery, building and equipment, about \$3,000, but it would be first-class in every respect. I pre-sume a building that would answer the purpose could be built for \$1,000, or possibly less than that.

### SOME MORE SILO QUESTIONS.

I take much interest in your articles in the Michigan Farmer and would like to ask you a few questions about the silo. We have just erected a stave silo and have it filled. It has leaked at the bottom between staves and foundation. Would this indicate that the corn was put in too green, or would there be juice enough to allow some to leak out? What effect is it likely to have on the ensilage? If it will injure the food value how do you think it can be prevented next year? I cemented outside of staves but put nothing on the inside as I could see no way of tightening the bottom hoop if I were to cement inside. I have followed the advice given in The Farmer and used mostly eared corn. Now some dairymen

It is almost impossible to get a stave silo tight enough around the bottom but what the juice of the corn will press out best be accomplished by having a barrel In fact, it is almost impossible to get elevated above the ensilage, or to the any silo tight enough to prevent the juice side of the ensilage cutter opposite the coming through. There is a great deal of pressure in the bottom of the silo. there is the least crack or crevice that the juice can be forced through, it will be done from this pressure. You want your silo as tight as you can get it because the tighter it is the better the corn silage will be preserved, and yet there is thoroughly. It will pack, settle in the no particular harm done in part of this corn juice oozing out. The corn would have to be quite ripe and dry, in fact, too the silo for a time and then turn on the much so, if there was not an excessive hose and wet it down, because the water Juice in the bottom of the silo. While, on the other hand, if the corn is too green there is a great excess of corn juice in the bottom. One year frost came before to run into the blower continuously when my corn got anywhere near mature and we had to put it into the silo green. That year there was so much of the corn juice that pressed out through the bottom door good ensilage. I have no doubt but what of the silo that it ran for several feet. This corn was too green to make good silage, but it was the best we had that year. Ordinarily, there is very little juice that is pressed out, sometimes a little in the chute. A small amount of juice being pressed out does not harm the ensilage very much, the depreciation in food value would be exceedingly small and I don't think that T. K. need to worry about this part of it. The only way he can prevent it next year, of course, is to have a perfectly air tight and water tight sorb enough of the juice of the corn, the staves will swell up again, making it This question is being asked almost tight and will keep the ensilage almost

As I have explained many times through have taken the pains now to consult an The Farmer, where one wants the best experienced, practical man and also cat- kind of ensilage, the kind requiring the alogs of creamery supplies, so as to give least amount of supplementary grain, he the answer a little more in detail. Of wants to give the corn plenty of room so course, one cannot say very much about that it will mature good sized ears. On the cost of a building, because much de- the other hand, if you want to raise a pends upon the kind of a building and large amount of forage to the acre, and the material out of which it is built. You are willing to feed a liberal amount of can put almost any amount of money in grain with this, grow a larger kind of a building that you wish, and yet a com- corn and get more tons to the acre. In paratively cheap one will answer the this case, however, it is not necessary to purpose. You want a building about grow a large southern corn.

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The purpose of this article is to make plain a few facts concerning milk tests which are not sufficiently well understood by a great many milk producers.

In the first place, what do we mean by a 3.5 per cent test? Everybody knows that milk testing 3.5 per cent is richer than that testing 3.0 per cent, but the important thing to know is that milk testing 3.5 per cent contains 3.5 pounds of butter-fat per hundred pounds of milk. Likewise milk testing 4.0 per cent contains four pounds of butter-fat per hundred pounds. That is, the percentage reading obtained with the Babcock test represents the number of pounds of butter-fat in one hundred pounds of the product tested. Thus 120 pounds of milk testing 3.8 per cent contains 1.20×3.8, or 4.56 pounds of butter-fat.

The question is also often asked, what is the difference between butter and butter-fat? Butter is principally butter-fat, with water, salt and curd additional. The amount of butter-fat in butter averages close to 83 per cent.

Because of the fact that butter contains and butter-fat is known as the over-run, which simply means butter in excess of butter-fat.

In figuring the over-run it must be remembered, however, that about 31/2 per cent of the total butter-fat in the milk milk testing 4.0 per cent would produce theoretical over-run as follows: 150  $\times.04=6$  pounds butter-fat; 6 less a  $3\frac{1}{2}\%$ loss in skimming and churning leaves 5.79 pounds of butter-fat to be made into butter. 5.79÷0.83=6.97, the number of pounds of butter. 6,97-6=0.97, the overrun in pounds;  $(0.97 \div 6) \times 100 = 16.16$ , the over-run in per cent.

causes of variations in the test. These causes, if better understood by the milk producers, would relieve butter and cheese makers of much unnecessary trouble.

In the first place, the composition of the milk of all cows undergoes a change with the advance of the period of lactation. During the first five months after calving, the test remains practically the same; after this, as a rule, the milk becomes gradually richer until the cow is

The quality of the milk also differs with different breeds. It is well known that Holstein-Friesian milk averages lower in test than either Jersey or Guernsey milk. Even in the same breed there is a wide variation in the test of the milk from individual cows. It is inherent in some cows to produce rich milk, in others to produce poor milk. Some Holstein cows test as low as 2 per cent, while others test 4.0 per cent and not a few have approached the 5.0 per cent mark.

This is largely explained by the fact that the first drawn milk is always poorer in fat than that drawn last. Fore (first) milk may test as low as 0.8 per cent while the strippings may test 14 per cent. It is therefore important to get as much of the milk as can be secured

readily. Fast milking increases both the quantity and the quality of the milk. It is quantity of thinner milk. for this reason that fast milkers are so much preferred to slow ones.

milkings. milk. This, no doubt, in a large measure, milk, depending largely upon the time of day the cows are milked.

feeding to any great extent results in the no matter what breed he selects. production of milk poor in fat.

Sudden changes of feed may slightly kind of feed fed.

exposure to heat, cold, rain, flies, etc. JOHN MICHELS. Wisconsin.

FACTS CONCERNING MILK TESTING. SELLING MILK VS. SELLING CREAM BEST COWS TO KEEP.

My creamery man offers to buy my milk at \$1.25 per 100 lbs., and pay me for the butter-fat, also pay drawing of the milk. At present I am selling my cream. What I wish to know is this, which would return me the most, to sell my milk and butter-fat, or to do as at present, sell my cream, and have the warm milk for hogs and calves? If I sell my milk and cream what cows do you think would be the best for me to keep? It seems to me that by selling my milk at the above price and receiving the market price for the butter-fat the milk contains, it would be much better to sell the milk.

milk. Calhoun Co. SUBSCRIBER. There is usually little to be gained by selling milk in preference to selling cream, because usually the price of milk is figured on a basis of the price of butterfat, the same as cream. If a man buys milk for so much a hundred, he makes the price a hundred according to the price and amount of butter-fat. Ordi narily a man would get a little more per pound for butter-fat if he sold the whole milk than he would if he sold cream, but with the cream he has the skim-milk, which is worth from 20 to 40 cents per 100 lbs., to feed on the farm to young yield more butter than butter-fat. The growing calves or pigs. The farmer too difference between the yield of butter so many would sell milk. I cannot tell whether \$1.25 a hundred is a good price for your milk or not, not knowing the quality of the milk. It all depends upon the per cent of butter-fat in the milk Many people are getting more than \$1.25 is lost in the skimming and churning a hundred for their milk, but it is usually process. A lot of, say, 150 pounds of rich milk milk that contains from four rich milk, milk that contains from four to five per cent of butter-fat. makes it valuable is the extra amount of butter-fat and other solids which the milk contains. According to subscriber's letter, if he sells the milk, the milk is picked up at his door and he does not have to pay for hauling. Usually where one sells milk he has to deliver it to the At creameries and cheese factories the train or skimming station, or milk depot question continually comes up as to the at a certain hour every day. This adds materially to the cost of production, but when he sells cream he only has about one-tenth of the bulk or weight to deliver. He does not have to deliver it as often and these things should be taken into consideration, especially in the winter time when the roads are bad. If you sell market cream for city consumption and have to deliver it every day, this also should be taken into consideration, or if you sell to a creamery in the winter time you only have to deliver it every other day, or possibly three times a week, or twice each week, and this also is much less work and one could afford to take a little less for the cream. Where a farmer wants to raise his own calves, the sweet skim-milk is quite an important factor and should be taken into con-

Now as to the kind of cows to keep where one sells milk or cream. In my judgment it matters very little about the kind of cow, whether you are selling milk or cream. I would use the dairy breed When cows are only partially milked that suited me best and then I would sell they yield poorer milk than when milked the milk or cream for what I considered the best market and to the best advantage. The value of a dairy cow depends upon economy of production, because a cow gives a large mess of milk is no sign that she produces that milk cheaper than a cow that gives a lesser quantity, and because a cow gives rich milk is no sign that she will produce butter-fat cheaper than one that gives a larger One cow is bred to produce large quantities of milk that contain a small per cent of butter The richness of the milk is also influ- fat, another cow has been bred to proenced by the time that elapses between duce a richer milk and consequently she In general the shorter the gives a less quantity. Now the cow that time between the milkings the richer the will take a dollar's worth of the farmer's feed and turn it into milk or butter-fat accounts for the difference we often find at the greatest profit is the best cow. in the richness of morning's and night's You will find that there is as great a dif-Sometimes the morning's milk is ference in individuals of the same breed the richer, at other times the evening's as in animals of different breeds. Contly the farmer breed that he likes best and then keep Starvation not only affects the quantity selecting out the individuals that will but the quality of the milk as well. It produce most economically. In a few has been repeatedly shown that under- years he will have a most excellent herd,

sideration.

The cost of production is reduced more affect the richness of milk, but only in cutting seconds and minutes from the temporarily. So long as cows are fed a chores that are repeated each day or temporarily. So long as cows are led a twice each day for seven months of the full ration the test of the milk remains twice each day for seven months of the practically the same, regardless of the year, than by the saving of a man's work when filling the silo, through some me-The quality of the milk is also affected chanical device. Study your stables, deby unduly exciting the cows, by irregu- termine where short cuts can be made, larities of feeding and milking, and by and make them. An additional door or hay chute, or a more convenient fced store may be easily installed.

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The Lawrence Pub. Co.,

Detroit, Mich.

### DETROIT, OCT. 22, 1910.

CURRENT COMMENT.

speaking or The Farm Equipment. thinking of items of farm equipment, the average farmer will always call to mind the larger items of farm equipment, such as the implements and machinery eployed in the doing of the farm work. The small tools needed on the farm, and which are to be found on the well-equipped farm, will scarcely ever come to his mind in this connection. This of the grower turns anxiously to the marpoint was forcibly brought out by some work recently done by the Ohio Experi-United States Department of Agriculture. In order to arrive at some definite conclusion in this matter, careful inventories case the owners were asked to estimate the farm equipment. In practically every case the actual value of the small tools found that the value of the equipment cent of normal, according to the figures \$300 on the average Ohio farm. An in- These figures are about midway between teresting phase of this investigation was the estimates for a like date for last year the fact that upon farms where inven- and two years ago and nearly four per tories are regularly taken these tools cent below the ten-year average for estiof "other small tools" and given an esti- A continued fall of the price of the tu-

have been upon the Ohio farms investigated, it would certainly be a good thing gated, it would certainly be a good thing for the average farmer to take stock of the "small tools" to be found upon his farm, and then to study the proposition carefully to determine whether his equipment in this line is adequate to his needs.

Obviously it is good business sense to have a sufficient equipment of these small tools to enable the workmen employed to accomplish the work to be done with the greatest possible degree of despatch and efficiency. It is undoubtedly are to the stock has not been in very good contending the conservative grower to do the same.

Movements of sheep Movements of sheep of the present at least, thereby compelling the conservative grower to do the same.

Movements of sheep of the navy departs that a large naval fleet is needed on the Pacific coast.

Condition of the and lambs in the big sing season arrived, and they have not ripened very rapidly, even where left in the ground until the present time, since killing frosts held off so long and the vines have remained green. As a result the ground in the figures showing the receipts and shipments at the Chicago market for September. These with the greatest possible degree of despatch and efficiency. It is undoubtedly of deaths resulting probably are the number of deaths resulting probably are the conservative grower to do the same.

Movements of sheep of the navy departs in the big sing season arrived, and they have not ripened very rapidly. Even where left in have been much larger than common this year. An illustration of this fact is found in the figures showing the receipts and shipments at the Chicago market for September. These there were 152,000 head larger than for the university of the University of

value in the operation of the farm.

hand tools of a similar character to have and as a natural consequence prices have trips to town in the busy season to sup- good many to contemplate this natural tool not adapted to the purpose in hand. future. In like manner there should be at hand the more common of the small tools fre- the careful observer that the crop of poor harness, in order that expensive delays rived. The extremely favorable weather may be avoided and valuable time saved. Concrete illustrations might be given to cover a multitude of cases to which this advice would apply. But the farmer who takes this subject up in a thoughtful certain that the acreage is not as large and thorough manner will be able to establish the connection between trivial other sections of the country indicate that pensive result brought about indirectly ports received from some sections indiby that need, as the poet has established the connection between the lack of a horse-shoe nail and the loss of a historymaking battle.

Then, from another standpoint, this is an important subject for consideration upon the average farm. The very considerable cost of the needed equipment of small tools on the farm should give to this item of overhead expense a significance which is too often not accorded it they should be of a quality which will make them efficient and lasting in service. They should also receive a degree of good care which will keep them always in condition for the most effective work. Then they should be systematically stored in convenient proximity to the places where they are most often needed, so as to avoid a waste of time in getting them and replacing them after they have been In fact, there is ample room for careful thought and study in this matter of the equipment of the farm with small tools in a suitable and economical man-Something in this connection will depend on the line of farming followed, but most of us follow diversified farming, and the greater the diversity of our production the greater the need of considering this problem, for the greater will be our need of a proper assortment of small tools which go to make up the equipment of the well managed farm.

With the digging of The Season's Potato the season's potato Crop. c r o p practically completed, the mind

ket in which he will have to dispose of the product. That growers have felt no ment Station in co-operation with the small disappointment at the fall in prices which has occurred since the late stock commenced to move cannot be questioned. That they are just as anxiously were taken on 33 Ohio farms, and in each studying the probabilities of the future trend of that market is a patent fact, and the value of the small tools included in makes this a particularly pertinent topic for comment at this time.

Most potato growers have anxiously to be found upon the well-equipped farm watched for the publication of the Octo-exceeded the "guess" of the farmer very ber report, which appeared in the collargely, being greater by about 500 per umns of the last issue. This report cent on the average than the estimate showed the estimated condition of the placed on them by the owners. It was potato crop of the country to be 71.8 per was included under the term of compiled from the reports of correspond-'small tools" would cost from \$200 to ents of the Department of Agriculture. were generally bunched under the head mated condition of the crop on October 1. mated value far below their actual value, bers notwithstanding this comparatively either from the standpoint of cost or their low estimate for the season's crop, makes the problem all the more confus-In the result of this investigation there ing for the grower who has been figuring would seem to be a valuable lesson for that the early market for potatoes would the average reader. It seems to indicate be good on account of the inevitable that the average farmer has a very dim shortage in the crop which would result conception regarding the actual equip- from the unprecedented summer drought ment of his farm in this regard. If this which was felt so severely in Michigan. is as universally true as it appears to Let us for a moment undertake to anahave been upon the Ohio farms investi- lyze the situation, so far as it is capable

a matter of economy to have a sufficient account. The rushing to market of all the same month last year, while the The Michigan Farmer supply of forks, shovels, spades, hoes, the green stock that could be sold has shipments exceeded those of last year by

ment of the tubers and there is a very average field. But it is also practically as it was last year, and reports from cate that the yield will not be as good as it is in Michigan, and thus, while the final figures, which will not be available until November, may show an improvement over the condition of the crop indicated for October 1st, it would not seem up to the ten-year average. However, in the study of crop statistics it is important that one keep an eye on the heavier proupon the average farm. Not only should ducing sections of the country which go the needed small tools be at hand, but in with the others in making up the average. In this case we find that the five largest producing states have an average condition for October 1st, which closely approximates the ten-year average for the country on October 1st.

The logical deduction to be obtained from these facts and figures is that the market is likely to be a weak and fluctuating one during the weeks which intervene before the figures for November are available.

With the clearing of the situation the market may be expected to become more active, and to reflect the sentiment of growers as well as buyers. It is, of course, impossible to make intelligent predictions regarding the future of the market at this time, but the prospect would seem to be at least an average one.

In figuring on the probable trend of the market, after more reliable figures are obtainable, some conclusions reached by Colorado expert, may be of practical utility as well as interest. After studying figures of production and market values covering several years, this expert has come to the conclusion that the average per capita consumption of potatoes in the United States is about three and one-half bushels, and that when the aggregate crop for the country is estimated to equal or exceed the needs of consumption on this basis the wise grower will sell potatoes whenever he can get anyone to buy them, but that when it falls below the needs of consumers figured on that basis, especially following a year of low prices, it is the part of wisdom to hold

market the crop on the part of growers will only aggravate the situation and postpone the day when better prices will prevail. The gradual marketing of any crop, especially of a perishable crop, is the best guarantee of an even and satisfactory market. Somebody must hold the major portion of the potato crop until it is needed for consumption, and speculators will do this only when there is every prospect of a rise in the market, hence they may be expected to play a waiting game, for the present at least, will a specific in the ocasion.

It is asserted that land owners along the Huron river, where it was expected to develop power plants for the production of electricity are getting anxious the recent extension of lines running from the Canadian power plants at Niagara Falls. Already 300 miles of lines running from the Canadian power plants at Niagara Falls. Already 300 miles of lines running from the Canadian power plants of lines running from the Canadian power plants of the prospect of the production of electricity are getting anxious the highest voltage so far in use, 110,000.

Fire destroyed the trop river, where it was expected to develop power plants for the production of electricity are getting anxious the fire are asked to be orators on the ocasion.

It is asserted that land owners along the Huron river, where it was expected to develop power plants for the production of electricity are getting anxious the fire recent extension of lines running from the Canadian power plants of the Huron river, where it was expected to play a specific power plants for the Huron river, where it was expected to develop power plants for the Huron river, where it was expected to develop power plants for the Huron river

saws, axes, planters, and other small not had a tendency to improve matters, 157,000 head. This large movement of sheep may be ascribed partly to the fact the proper tool for the work always at declined. While every reader who is in- that fewer sheep and lambs will be fed hand, and thus avoid the necessity of terested in the potato market is aware in Colorado and other western points this borrowing from the neighbors or making of this fact it may be reassuring to a year than is usual, owing to the poor season for the alfalfa crop, and partly to ply the deficiency as the particular tool cause of a decline in prices and put them the fact that some western owners have happens to be needed, or else handicap in a better frame of mind for the con- sold their flocks down much more closely the workman by compelling him to use a templation of the probabilities for the than usual owing to the cheap values uture. Which have prevailed for wool this year There can be no doubt in the mind of in comparison with last. Without doubt, this large movement of sheep would have quently needed in making repairs to these tatoes in Michigan is better than was an- been disastrous to the business, had it same tools or to implements, machinery ticipated before the digging season ar- not been for the fact that the fall rains have started up the pastures the counof the late fall was ideal for the develop- try over, and the exceedingly favorable fall has enabled feeders to purchase libsmall proportion of little potatoes in the erally for winter feeding over a wide range of territory. But it is doubtful if sheep feeding will again be carried on in the west to the extent which it has been done in former years, for the reason that needs of this kind, from the standpoint the average is still less in proportion as the increase in population has enlarged of the investment required, and the ex- compared with last year. Then the re- the market for home-grown agricultural products in that section with the result that the big ranges are being gradually but surely broken up and devoted to general agriculture. The dry farming propaganda has added to this tendency not a little, but the apparent fact that the future sheep industry of the country probable that the crop would equal that will find its center farther east is not of last year, if it does better than come a matter for discouragement. In fact, it is a matter for congratulation that the sheep feeders of the country have been able to take an aggregate increase of 400,000 sheep and lambs from the big markets, most of which have gone onto the farms of the country instead of into the hands of the purely speculative feeders. This means added fertility for the farms onto which this surplus of sheep have gone, and indicates that the farmers of the middle west are alive to the possibilities of the sheep business. would also seem to promise well for the future of the sheep industry of the country, when the time arrives, as it must at no distant date, when the bulk of the lamb supply must be bred as well as fed on the farms of that section.

### HAPPENINGS OF THE WEEK

National.

National.

One of the most hazardous attempts along the line of air navigation; is the effort of Walter Wellman and a crew of five men to cross the Atlantic ocean in a dirigible balloon. Provisions and gasoline sufficient for a fifty days; journey were in the stores of the great air craft as it moved upward and outward over the sea from Atlantic City, N. J., last Saturday evening. The wireless equipment aboard enabled the crew to keep in touch with land as they swept along the shore to the northeast and by Monday morning 300 miles had been covered by the craft. The messages then reported all to be well on board and that they were still pushing forward.

on board forward. The Gulf of Mexico and adjacent terri-the Gulf of Mexico and adjacent terriforward.

The Gulf of Mexico and adjacent territory were swept by hurricanes the past week and a great deal of property was destroyed both in the boating and commercial facilities along the shores of the gulf and on the islands and mainland over which the storms passed. Cuba was an unfortunate sufferer as was also Jamaica. The Cayman Islands are said to be devastated. It is impossible to get reliable reports on account of the lines of communication being so badly interrupted by the storm.

prices, it is the part of wisdom to hold for better prices. The weak point in this reasoning is that the country's population is a varying factor, and that the variation may cause a fatal error in the computation.

But it is certain that buyers are more wary after a market season such as we had last year, and the grower who has cellar storage for the major portion of the late crop will make no mistake in being a firm holder, for the present at least. A general exhibition of haste to market the crop on the part of growers will only aggravate the situation and postpone the day when better prices will the storm.

In the resports on account of the lines of communication being so badly interrupted by the storm.

The crashing together of two trains on the Charleston & Western railroad in South Carolina resulted in five deaths and 17 persons being more or less seriously hurt.

Senator Jonathan P. Dolliver, of Iowa, died suddenly Saturday last of heart disease. Up to the time of his death he was in a cheerful mood. But a few hours before the tragic end he expressed to friends plans for the future while seated beneath trees in his garden, where he had before rehearsed some of his speeches which market the crop on the part of growers will only aggravate the situation and postpone the day when better prices will be the storm.

The crashing together of two trains on the Charleston & Western railroad in South Carolina resulted in five deaths and 17 persons being more or less seriously hurt.

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not exceeding 40 persons. Liberal quantities of supplies are being rushed to the scenes of the fires, to relieve the sur-

scenes of the fires, to relieve the survivors.

After long efforts secret service men have succeeded in gathering information pointing to the guilt of several parties in connection with land scandals in Alaska and a number of indictments have resulted from the work of the federal grand jury having under advisement the transactions concerning the transfer of certain Alaskan properties.

Michigan Central passenger trains are now using the double tube tunnel under the Detroit river at Detroit regularly. Freight trains have been handled through the sub-passage for many days past.

The regular convention of the Modern Woodmen of America was held in Detroit during the past week.

Foreign.

Decrees are being issued by the pro-

during the past week.

Foreign.

Decrees are being issued by the provisional government of Portugal to abolish the house of peers, the council of state and the titles of nobility, banishing the Braganza dynasty and secularizing charitable institutions.

The Spanish government is already convinced that too many members of religious orders are in the country and notice has been issued that foreigners must leave without undue delay or they will be expelled. The order is directed toward the influx of leaders and spiritual advisers from the societies in Portugal.

President Taft leaves his summer home at Beverly this week and goes to Washington to take up his regular duties at the federal capitol.

The Portugese royalists are planning a strenuous campaign through which they hope to again get control of the country and restore King Manuel to the throne. Elections will be held this fall.

Railroad employes in France are out on strike. Electrical workers have gone out in sympathy with the railroad men.

Crown Prince George, of Servia, is ill with typhoid fever.

## GENERAL REVIEW OF CROP CONDITIONS.

The month of September was favorable for crops in general, taking the United States as a whole, an improvement during the month of about 1.0 per cent being shown, whereas there is an average decline in September of 0.8 per cent. Aggregate crop conditions in the United States on Oct. 1 (or at time of harvest) were about 1.8 per cent higher than on corresponding date a year ago and 0.4 per cent lower than the average condition on Oct. 1 (or at time of harvest) of the past ten years. The area under cultivation is about 3.2 per cent more than last year.

The aggregate of crop conditions in each state on Oct. 1 is given below; the first figure after each state indicates the average condition on Oct. 1, as compared with Oct. 1, 1909; the second figure indicates the condition on Oct. 1 as compared with the average on Oct. 1 of the past 10 years, 100 representing conditions a year ago in the first case, 100 representing the ten-year average in the second:

Maine, 126, 114; New Hampshire, 124, 112; Vermont, 119, 112; Massachusetts, 112, 103; Rhode Island, 109, 104; Connecticut, 115, 115; New York, 118, 108; New Jersey, 118, 110; Pennsylvania, 117, 105.

Delaware, 127, 109; Maryland, 120, 104; Virginia, 111, 108; West Virginia, 39, 94; North Carolina, 110, 109; South Carolina, 104, 109; Georgia, 99, 103; Florida, 94, 100. Ohio, 100, 102; Indiana, 101, 107; Illinois, 100, 107; Michigan 99, 100; Wisconsin, 82, 82; Minnesota, 88, 103; Iowa, 106, 102; Missouri, 107, 107; North Dakota, 36, 40; South Dakota, 82, 88; Nebraska, 99, 94; Kansas, 102, 99.

Kentucky, 101, 101; Tennessee, 110, 107; Alabama, 116, 101; Tennessee, 110, 107; Alabama, 116, 111; Mississippi, 126, 108; Louisiana, 115, 103; Texas, 135, 104; Oklahoma, 121, 91; Arkansas, 129, 111.

Montana, 74, 86; Wyoming, 92, 100; Colorado, 80, 88; New Mexico, 76, 85; Arlzona, 72, 80; Utah, 97, 101; Nevada, 132, 131, 1daho, 90, 96; Washinston, 83, 81; Oregon, 103, 107; California, 114, 120.

Below is given the condition of certain crops on Oct. 1 (or at time of harvest, (ten

86.2: flaxseed, 56.6.

The production of certain crops in 1910 expressed in percentage of the average production in recent years, (not compared with full crop), is estimated as follows: Broom corn, 105.4; cabbage, 110.2; lima beans, 100.0; dry beans, 98.8; onions, 96.5; hemp, 95.5; kafir corn, 94.3; tomatoes, 93.7; clover seed, 93.6; millet seed, 85.7; millet hay, 84.7.

Crops that have already been estimated quantitatively are as follows:

Yield Per Acre.

## Yield Per Acre,

	Bu.	Bu.	Bu.
Wheat	. 14.2	15.8	14.1
Oats		30.3	29.5
Barley	. 22.4	24.3	25.7
Rye	100	16.1	16.0
Hay (tons)	. 1.34	1.42	1.44
	Production.		
Crops.	1910.		1909.
	Bu.		Bu.
Wheat	691,769,000		37,189,000
Oats	1,096,396,000		7,353,00
Dantes	150 100 000	1.0	100 100 00

64,938,000 A dealer in horses who is constantly receiving orders from Vermont for draft horses and medium-weight chunks says the eastern farmers are raising principally light harness horses for supplying the city demand for coach and carriage horses, while they depend on the west for commercial chunks for heavy traffic service.

## Ingersoll-Trenton



If you are keen for true timekeeping, your watch-pocket should hold an Ingersoll-Trenton. City men rely on it; country men are rapidly awaking to its reliability and worth. Moreover, despite its fine construction, it is sold by 7,000 responsible jewelers at a price which all may afford-a price fixed at the factory and uniform everywhere.

This watch of quality-timed to the second and ready to run for a lifetime—is made with from 7 to 15 jewels, enclosed in nickel or fine gold-filled case, fully guaranteed as to accuracy and wear, and sold at from \$7 to \$15.

The next time you are near a good jeweler ask him to show you an Ingersoll-Trenton.

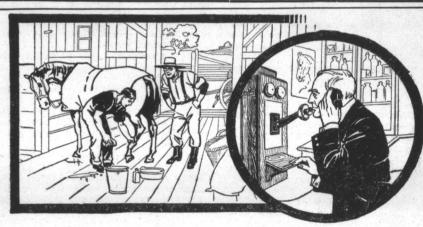
The minute you take it in your hand you will be sure you have found a real watch.

We would also like to have you write for our illustrated booklet, "How to Judge a Watch." It tells just how the Ingersoll-Trenton is made and what it will do in the way of timekeeping.

ROBT. H. INGERSOLL & BRO.

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**NEW YORK** 



## Indispensable in Emergencies

THE sickness of a valuable animal on the farm demands prompt remedies.

It's a case for the veterinary—a case where minutes count. That's where the Bell Service shows its value to the farmer.

By means of the telephone the veterinary is reached, and he at once tells the farmer what to do until he arrives.

No far-sighted farmer gets along without the protection of the Bell Service.

He can never tell when it is going to save him from serious loss. Besides, he has daily proof of its usefulness.

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32,239,000

Michigan State Telephone Company, Detroit, Michigan.

TELEPHONES IN MICHIGAN! 200,000

Connections Everywhere.

THE LESSER BULBS.

Nearly every woman loves flowers, be she city dweller or blessed with the flower grower's riches, room and pure air and plenty of fertilizer, as farmers' wives and daughters are. How does it come, then, that the yards of the city and suburb are bright with flowers all spring and summer while far too many farms have not a blossom to show, other than the lilacs grandma planted by the gate? The notion is abroad that farmers

wives must work so hard that flowers are indoors. too much of a luxury. The unconscious therefore, neither are the flowers.

Is there a remedy? Yes, else why dis-

but surprisingly few in America have seen edged with red. This is not a jonquil it, though in England it is as common as but a Poet's Narcissus. The true jonquil apple blossoms. Snowdrops bloom in is a small flower of butter yellow, grow-March, early or late, according to the ing in clusters of four to six. They are season. While patches of snow still like daffodils in shape, and sweet? O, whiten the shady places this flower-snow my! Campernelle Rugulosus, at twenty appears. Its white, three-petalled, droop- cents a dozen, is a fine sort, but all joning flower always seems to me a demure quils are dears, and money spent for girl who has outwitted her stern father, them comes back as pure gold every Winter, and treads on his heels in her spring. wedding gown. Of varieties, Elwes' Giant, about the best single, costs fifteen cents in their wonderful purity and fragrance. a dozen. Fifty cents' worth will give you Their stems are longest of all except late the thrill of spring a month before the tulips. The way they bow, but never wild flowers bloom. Plant Snowdrops two break, in the spring wind, hold up their inches deep and the same apart, near a sweet faces to the cold rain and keep window where you can enjoy them from

If you want a dainty spring picture, maid, in dark blue, her starry flowers set

daring snowdrop; we have all read of it snowy blossom with its tiny gold centre

With the jonguils come Poet's Narcissus spotless amid swirling dust, gives one strength and courage. There are several varieties of the white Narcissus but Poetforce of example is not before her eyes; plant Scillas (Scilla Siberica) with the icus Ornatus is the best. It is an early therefore, neither are the flowers. Snowdrops. Scilla is Snowdrop's brides- bloomer, sweet as honey and of purest bloomer, sweet as honey and of purest white. Twenty cents buys a dozen. If cuss the question? The remedy for lack all along her stems. Set scillas two I could have but three bulbs I would have these, snowdrops and daffodils.

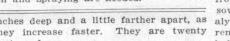
"And then my heart with pleasure fills And dances with the daffodils."

How the dear, old, ever-new rhymes cluster round the dear old ever-new blossoms; and none, not even the rose, claims a richer heritage in literature than the daffodils. One sees them blooming year after year, on a few farms-great clumps with very few flowers. Don't blame the daffodils or think they are not worth while. They are starved. The miracle is that they bloom at all. A peck of manure around each clump in the fall and you would see a vast improvement. Like most bulbs, daffodils do not want to be moved often, which makes them idea! farm flowers.

There are daffodils of every shade from snow and cream to orange. Daffodils of all sizes, long cups and short, single and double. Named varieties cost from thirty to sixty cents a dozen but fine mixed ones, either single or double, can be had for twenty cents. Plant them six inches or more apart, with the tip of the bulb four inches deep.

Let your bulb bed have a southern exposure if possible. It hastens the blooms when every day seems a week to wait. Let a board fence, wall or building shelter these brave first fruits from cold winds. Send to some large seed house for their fall catalog, and order early. Plant as soon as the bulbs arrive and cover at Thanksgiving—not before—with about four inches of manure as it came from the stable-straw and all. In spring sow nasturtiums, poppies, petunias or alyssum among them, after the cover is removed in March. Your reward from bulbs is sure and so very rich and satisfying that the "bulb-biddy" will become a fixed institution on your farm.

Kent Co. GLADYS HYATT SINCLAIR.



A third early bird, not so well known The remedy for lack of money is a as these two, but blooming with them, is close study of several catalogs and one Chionodoxa, a newcomer from Asia. Chisetting of chickens or turkeys, dedicated onodoxa Sardensis is one of the prettiest as well as cheapest at fifteen cents a hatched for flowers, sold for flowers and dozen. Its stars of Alice blue grow at the religiously spent for flowers. You will ends of slender stems and lift their faces

Before this trio vanishes, Crocus appears. When one can buy by hundreds, showed damage from some cause. Crocus is lovely, planted three inches deep right in the grass, as though growing wild. Rut when one has only two or three dozen they are best nestled in where they can gather all the sun's heat and we can easily gather in all their beauty. Each bulb throws up a cluster evening drew near, asked an angel to of from three to six blossoms close to the ground and surprisingly large for the time of year. They coquet shamelessly with sun and shade, opening or closing very swiftly. Take your choice of satiny ially bulbs. Many a bare farm dooryard yellow, blue, white or blue and white striped at fifteen cents. These are the largest bulbs. For ten cents a dozen, or good Crocus bulbs for out-door planting. bulbs because the greater ones, tulips and though the blooms will be a little smaller

These will brighten the first half of

Next will follow Dutch Roman hya-

GLADIOLUS SUFFER FROM IMPROP-ER CONDITIONS,

One of our subscribers recently sent leaves of her gladiolus plants which specimens were sent to Prof. Thomas Gunson, of our Agricultural College, who determines the trouble as rust and attacks of the red spider. Following is the reply in Prof. Gunson's words:

"The trouble with the gladiolus leaves is due to conditions rather than a malignant disease affecting the corms.

"One of the specimens showed rust spots. The other had, at some time, suffered from one of the common enemies of plants, especially in dry seasons, namely, red spider.

'Gladiolus delight in a deep, rich, moist soil, and in many parts of the state dureighty-five cents a hundred, you can get ing the past season conditions were so dry, that all the early varieties failed to flower entirely. Later kinds had the benefit of occasional showers.

If your correspondent keeps the bulbs dropped amazingly in the last few years. April while the last half will add the starry in a dry, cool place during the winter, Splendid tulips, either the welcome earlies or the giant, long-stemmed lates, can be had for one dollar a hundred.

blueish-white Tritelela Uniflora or Star looking them over once or twice during the resting period, and picking out all the partially ripened or 'shrivelled' bulbs, creding them. When a bulb bed is once properly made open blossom at the end of a long stem, grading them in three sizes, and planting

THOS. GUNSON.

The standard barrel is the most com-Some growers se a small, exact copy of the big, expensive cure fancy prices for their fruit by pack-But it is the lesser bulbs, the smaller hyacinths, with all their daintiness and ing it in bushel boxes, and this method and cheaper ones, that I wish were oft- fragrance, at forty cents a dozen. They should be encouraged. Good uniform apcome in light or dark blue, white, shell- ples carefully graded and packed in neat pink or dark pink. Plant Dutch Romans and attractive barrels will bring good about four inches deep and close together prices on any market. Poor fruit packed prices on any market. Poor fruit packed in dirty barrels will prove demoralizing to any apple market. None but the best "Jonquils," to many people, brings a fruit will bring good prices whether



## DYNAMITE FOR THE FARM

### Save Money by Using it for

Blowing out and splitting up stumps—one process. Blowing out and breaking

up boulders-one process. Breaking up hard pan.

Making holes to plant trees.

Loosening up the lower soils in orchards.

Digging wells.

Digging holes for poles and posts.

Digging ditches.

Draining swamps.

### RED CROSS DYNAMITE IS THE IDEAL EXPLO-SIVE ON THE FARM

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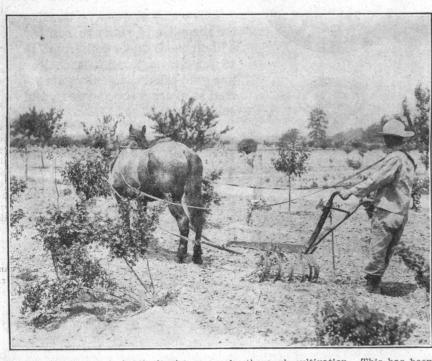
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Ohlo



Apple & Cherry Trees 10c. Peach & Car-Ofher Fruit Trees and Berry plants at lowest price Cat. free. ERNST NURSERIES, Moscow, O., Box 2



What a fruit-belt horticulturist means by thorough cultivation. This has been an unusual season to impress the advantages of good tillage and careful spraying. Orchards receiving them are producing good crops, while others are barren of fruit. The average income from Michigan apple orchards during the season when the last state census was taken, was a few cents better than \$16.00 per It should have been \$160. Cultivation and spraying are needed.

of water is a dust mulch, made by hoeing; inches deep and a little farther apart, as and the growing of fine shrubs and peren- they increase faster. They are twenty nials instead of sighing for coddled, short- cents a dozen. season seed flowers.

to flowers while they are yet cold eggs, think you need other things worse, of bravely up as if to show the March sky Other things have that trick. what color it ought to be. But, if you stop to really think, aren't you richer with what you want, some-times, than with what you need? And if we always go on spending so much for the things we don't want that we have nothing to spend for the things we do want, we shall get so out of the habit of taking enjoyment as to be like the dear old lady who went to heaven and when lend her a big apron for she must run down and feed the calves.

The remedy for lack of time and lack of strength is shrubs and bulbs-especwould blossom with beauty and many a flower-hungry woman would reap a fresh harvest of joy each year if the lesser bulbs were better known. I say the lesser hyacinths are already quite familiar and than those from the largest bulbs. also quite expensive; though tulips have had for one dollar a hundred.

by spading deep and filling in with half not so large as Crocus flowers but more of old manure, two hours work each pickable and graceful. They, too, are have no further trouble. spring and fall will care for it and one fifteen cents. single dollar spent for bulbs each fall would soon make your house-border a cinths and jonquils. Not the "Grape Hyliving joy to yourself and an incentive to acinth" that seems always just buds, but mon style of package. your neighbors.

ener met on farms. Less brilliant than tulips, less expensive than hyacinths, they are less of care, less liable to winter-kill and less given to race suicide; most of for a pretty show out-doors and sweet them producing babies enough each year blooms for the table. to satisfy even a Roosevelt. To begin "Jonquils," to man with, those earliest to bloom, the frail, picture of a dollar-sized, six-petalled, packed in barrels or boxes.

## GRANGE

Our Motto-"The Farmer is of more consequence than the farm, and should be first improved.

### THE NOVEMBER PROGRAMS.

Song-Page 34, Grange Melodies. An account of some movement for the

uplift of humanity.
Song, "Help it On," Song Knapsack.
Recitation and music.
Beautiful objects for home and school

pictures. Roll-call, responded to by each describ-

g a picture he or she admires. (Show cture if possible).
Legislative matters—discussion, follow-legislative to delegates to State Grange.

### THE NUB OF THE COUNTRY LIFE PROBLEM.

While there are evidences that the trend of population from country to city has been checked to some extent, it still remains the most serious problem confronting agriculture in this country. That real or imaginary difference in the conditions obtaining upon the farm and in the city is largely responsible will hardly be questioned, and the remedy therefore seems to lie in a general improvement in the conditions surrounding those who live in the country. Some weeks ago, Former President Roosevelt, in an address before an assemblage of New York Patrons, gave his ideas of what he calls the human side of this great problem, from which we take the following:

The human side of the rural life problem is to make the career of the farmer and the career of the farm laborer as attractive and remunerative as corresponding careers in the city. Now, I am well aware that the farmer must himself take addition the lead in bringing this about. It is absurd to think that any man who has studied the subject only theoretically is fit to direct those who practically work at the matter. But I wish to insist that it is a pernicious absurdity for the practical man to refuse to benefit by the work

of the student. Dhe reason why the great business men today-the great industrial leadershave gone ahead, while the farmer has tended to sag behind the others, is that they are far more willing, and indeed eager, to profit by expert and technical knowledge-the knowledge that can only come as a result of the highest education. From railways to factories no great industrial concern can nowadays be carried

ence to cost, does not do much good to farming; but, on the other hand, just as little is done by the working farmer who stolidly refuses to profit by the knowledge of the day; who treats any effort at imabound on ite face to countenance what he regards as newfangled ideas and contrivances, and jeers at all book farming.

The farmer, however, must not only 13-16. make his land pay, but he must make country life interesting for himself and his wife and his sons and daughters. Our people, as a whole, should realize the infinite possibilities of life in the country,

and every effort should be made to make these possibilities more possible. \* \* \* It often happens that the good conditions of the past can be regained, not by going back, but by going forward. We Jernayee Co., in Adrian, Thursday, Dec. 1.

the past knew. Henry Clay was a farmer who lived all his life in the country; Washington was a farmer who lived and

died in the country; and we of this nation ought to make it our business to see that the conditions are made such that OFFICERS OF THE STATE ASSOCIA-farm life in the future shall not only develop men of the stamp of Washington and Henry Clay, but should be so attractive that these men may continue as State Lecturer's Suggestions for First farmers; for remember that Washington mora.

Meeting. Sec mora.

Tre

I hope that things will so shape themselves that the farmer can have a great career and yet end his life as a farmer; so that the city man will look forward to living in the country rather than the country man to living in the city.

Farmers are learning how to combine effectively, as has been done in industry. am particularly glad to speak to the Grange, for I heartily believe in farmers' organizations and we should all welcome every step taken towards an increasing co-operation among farmers. The importance of such movements cannot be overestimated, and through such intelligent joint action it will be possible to improve the market just as much as the farm.

### AMONG THE LIVE GRANGES.

Belleville Grange, of Wayne Co., at a recent meeting debated the question, "Resolved, that the farmer of forty years ago enjoyed life better than those of the present day." The decision was in favor of the negative side of the question.

Marion Center Grange, of Charlevoix, Co., won first premiums on fresh fruit, canned fruit, vegetables and grain at this year's county fair. Its members are elated, since this is the first time that a single Grange has received a first award in all classes open to Granges.

Silica Grange Has Pomona Program.—
It was my privilege to attend a most excellent meeting of Silica Grange, Muskegon county, on Saturday evening, Oct.

1. This Grange owns a spacious hall and it was well filled on that occasion. Mrs. C. I. Giles is the worthy lecturer and in addition to an appropriate program she had secured a splendid exhibit of fruits, flowers and farm products generally. Apples are scarce this fall, but they were there, and splendid specimens, too. In commenting on the exhibit. Bro. John Walker, of Muskegon Grange, said he had seen nothing finer this year. He said, taken together, it gave unmistakable evidence of the productiveness of the soil in that section. "Just a little while ago," he said, "I heard a very prominent man say that no soil is fit for agriculture unless it has a clay subsoil, but right here where the sand is 500 feet deep or more, we have raised this year potatoes that would yield 300 bushels to the acre, and the best corn I ever saw." The writer spoke upon Grange Life Insurance. Considerable of interest was manifested and it is probable that this Grange will be in the front rank in this particular as in all other lines of Grange work. The ladies served a bountiful supper. Long live the Patrons of Silica Grange.—W. F. Taylor.

Jackson County Pomona.—In spite of stormy weather about 100 Patrons at

his assistance. The Pomona was organized by State Deputy John F. Wilde. As Pomona delegates to State Grange Frank Ayers and Mrs. Helen Chanter were elected.

### COMING EVENTS.

National Grange, Forty-fourth annual session, at Atlantic City, N. J., Nov. 15.

Michigan State Grange, Thirty-eighth Annual Session, at Traverse City, Dec. 12-16

Pomona Meetings.

Kent Co., with South Lowell Grange, at Alto, Wednesday, Oct. 25. Mrs. E. J. Creyts, state speaker.

Western (Ottawa Co), with Tallmadge Grange, Friday and Saturday, Oct. 21 and 22.

## FARMERS' CLUBS

President—B. A. Holden, Wixom. Vice-president—Mrs. C. A. Mathews, t. Johns. St. Johns. Secretary—Mrs. C. B. Johnson, Meta-

mora.
Treasurer—Henry T. Ross, Brighton.
Corresponding Secretary—N. A. Clapp,
Northville.
C. Hallock, Almont; A. R. Palmer, Jackson; Wm. H. Marks, Fair Haven; C. L.
Wright, Caro; E. W. Woodruff Blanchard.

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

### Associational Motto.-

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

### Associational Sentiment .-

The farmer, he garners from the soil the primal wealth of nations.

### THE DATE OF THE CLUB MEETING.

The date on which the monthly Club meetings are held is, of course, a matter for settlement by the individual Clubs, yet there are some points regarding the selection of the date which should receive careful consideration to the end that the meetings may not conflict with other important social or business events of the Club neighborhood. In most cases these matters are doubtless taken into consideration in fixing the day of the week upon which the Club meeting is held, as well as the time in the month when the regular meetings are held, yet in some cases one important point in this connection seems to have been overlooked. While very many of the Clubs in the them, hold the monthly meetings on Satis obvious that where the monthly meetings are held on any other day of the week, it will be impractical for the young people, or at least that large contingent of them who are in school, to attend the meetings, at least without neglecting their school work. While it may be more convenient for the parents to have the youngsters in school on the day when the Club is held, it is hardly a square deal for the younger children, who would get not a little benefit from the apportunity. for the younger children, who would get not a little benefit from the opportunity to attend the Clubs and get acquainted with the children from other school districts, as well as their parents. Then, by affording them an opportunity to take part in the Club programs they will gain a confidence in themselves which will be of value to them in their after life. The training received by children in public meetings of this character is an important factor in their education, and this is an opportunity which should not be denied them. Then there is another side of this same question, and that is the future of the Farmers' Club itself. If the children are brought up to feel that they have a part in the Club work, they will From railways to factories no great industrial concern can nowadays be carried on save by the aid of a swarm of men who have received a high technical education in chemistry, in engineering, in electricity, in one or more of scores of special subjects.

In just the same way the farmers should benefit by the advice of the technical men who have been trained in phases of the very work the farmer does. I am not now speaking of the man who has had an ordinary general training, whether in school or college. While there should undoubtedly be such a training as a foundation (the extent differing according to the kind of work each boy intends to do as a man) it is nevertheless true that our educational system should more and more be turned in the direction of educating men toward, and not away from the farm and the shop. Turing the last half century we have begun to develop a system of agricultural education at once practical and scientific, and we must go on developing it, it must be used.

The rich man who spends a fortune upon a fancy farm, with entire indiffering according to cost, does not do much good to the state of cost, does not do much good to the cost of the co something which, if given the opportunity, they will be likely to do for themselves

### Work for the Young People.

In this connection would it not be an of Club work conducted by the young people? Some Clubs have a young people's meeting at some time during the year. Others have a Junior Club, so called, conducted entirely by the young people with the advice and supervision of their elders. Others have the young people conduct contests in crop growing, or some practical work which will interest them alike in the work of the Club and these possibilities more possible. \* \* \* farm home of Mr. and Mrs. Henry Briggs, near Williamston, Saturday, Oct. 22.

Mecosta Co.. with Aetna Grange, at the plan adopted must be suited to the plan adopted must be suited to the plan adopted must be suited to the number and age of the young people who might be thus induced to interest them selves in the work of the Club, but a son, Friday, Dec. 2.

Grange Rallies and Fairs.

Sumner Grange Fair, Thursday, Oct. 27.

Them alike in the work of the Club and in agriculture as a business. Of course, the plan adopted must be suited to the number and age of the young people who might be thus induced to interest them selves in the work of the Club, but a suitable plan can be worked out in any Club to bring the young people into the organization and interest them in its work, and the results will amply repay the effort.

THE SHARE OF THE FARMER'S WIFE.

Synopsis of a paper read by Mrs. Alfred Allen before the Ingham County Farmers' Club, as reported by the corresponding secretary:

In part, Mrs. Allen said, the wife's share might be considered under three divisions-home making, work, and the money end. Home making was something more than housekeeping and we should have our homes as attractive as possible with pictures of real art and wholesome reading; a child would remember the pleasant things of home life much more than to be scolded for making a particle of dirt. Woman, in doing her share of the work, should have all the conveniences possible, such as the washing machine, the fireless cooker, the food chop-per, gas flatiron, and others mentioned. What share of money belongs to the wife depends upon circumstances, but under no consideration should she be obliged to ask for money; that makes her too dependent for what she has helped to earn. Give an allowance, if possible, in proper proportion to the income and she will make good use of it. Women embezzlers are unknown and in Kansas, where 12 years ago there was only one woman bank president, now there are four presidents and fifteen vice-presidents. Would it not be wise to have one pocketbook and when John gets something new let Mary have some needed utensil too? Let each share in the enjoyments and pleasures and when they sell something or have a little good luck, let each enjoy the benefits. Keep the right spirit in the home, the spirit of unselfishness and each will be doing his or her share.

### CLUB DISCUSSIONS.

Elect New Officers.-The Sherman state, and probably a large majority of Farmers' Club met at the home of Mr. them, hold the monthly meetings on Sat- and Mrs. Jake Kemperman, Friday eve-urday, this is not the universal rule. It ning, Sept. 17. That being election night,

Care of the Eyes.—The next subject, "Care of the Eyes," was ably handled by O. S. Bush. He had carefully prepared charts to show the formation of the eyes; told about special compound lenses and said that the eye was the highest polished substance known to man. The most perfect eyesight is when one is 10 years old. He stated that one measures distance by triangles and spoke at some length upon stigmatism, cataracts and nearsighted stigmatism, cataracts and near ness, which is an acquired habit. nearsighted-

ness, which is an acquired habit.

In Memoriam.—Since our last meeting, we have been called upon to part with one of our oldest members and President Ives thought it worth while to spend a little time in memoriam of Mrs. Bullen. Thereupon many of the members present paid tribute to her excellent qualities, manifested from her youth up, and how her natural loveliness had expanded as wife and mother and neighbor. At the close President Ives stated that all were of one mind regarding the worth of their departed friend, and, after singing the members were dismissed by Rev. Beebe. The next meeting will be Woman's Day, at Sunnyside, with President Ives. This is the annual chicken-pie dinner and the committee promise us a good program.—Mrs. Tanswell, Cor. Sec.

Consider Adoption of Reading Course.—

Consider Adoption of Reading Course.—
J. L. Carter and wife entertained the Odessa Farmers' Club, Saturday, Oct. 8. The meeting was called to order by the president, and opened by singing "America." Mrs. Augst read a helpful paper on "First aid to the injured, for fainting, choking and cuts." This was followed by a general discussion, also for cuts, burns, bruises and foreign substances in the throat, nose, ear and eyes. After the enjoyment of dinner and the social hour, a good program was rendered. There was considerable discussion in regard to the taking up a reading course next year, which resulted in this being left in the hands of the program committee, which the president appointed consisting of Mr. and Mrs. Chas. Begerow, Mr. and Mrs. A. E. Leigh. The meeting was adjourned to meet with Mr. and Mrs. D. D. Durkee in November.—Reporter. Consider Adoption of Reading Course.

### DETROIT WHOLESALE MARKETS.

October 19, 1910. Grains and Seeds.

Grains and Seeds.

Wheat.—The heavy early selling by farmers gave the trade a downward trend which it has been unable to recover from even though the receipts at primary points for some days back have been light. It is now down to an export basis and the belief exists that further heavy declines are not likely, unless there should be a change in the world's supply. Argentine had rains which were badly needed and made the outlook for the growing wheat there more promising. Russia is also enjoying good weather for getting her crop stored. The gradual decline of the market at this time is most unusual for after the farmers are done with the early fall rush of grain to the market there is naturally an upward move to prices. How long the strange condition will remain is a problem which, if solved, might save to farmers fortunes. A year ago there was an advance of 12c from the middle of August to the middle of October in cash wheat, two years ago an advance of 8c for the same period and three years ago a change in the same direction of 17c, while this year there has been a decline of about 9c for the corresponding period. Brokers, as is natural to suppose when the farmers are selling, hold the reason to be that American wheat is higher than conditions warrant. We suspect they may forget this reason when they have a good part of the crop in their control. Visible supply increased liberally. A year ago the price for No. 2 red wheat was \$1.23 per bu. Quotations for the week are:

No. 2 No. 1

Red. White. Dec. May. Thursday ... 96 .934 .98% 1.04

	No. 2	No. 1		
	Red.	White.	Dec.	May.
Thursday	.96	.931/4	.983/4	1.04
Friday	.95 3/4	.93	.98	1.03 1/4
Saturday	.961/4	.93 1/2	.981/2	1.03 3/4
Monday	.951/4	.921/2	.981/2	1.021/2
Tuesday	.95	.921/4	.97	1.02
Wednesday	.95	.921/4	.97	1.02
		0- 43-	3 - 31	

Wednesday ... 95 .92¼ .97 1.02
Corn.—As the date for the delivery of the new crop of corn approaches, prices begin to go downward. The influence of wheat is a bearish feature of the trade. The crop is being gotten to cribs in ideal shape. It is noted that in some sections the crop is not giving the returns expected. The ears are in many instances not filled out well. A year ago this market was paying 64c for No. 2 corn. Visible supply decreased. Quotations for the week are:

	No. 2 Mixed.	No. 2 Yellow
Thursday	521/2	54 54
Saturday	521/2	54
Monday	51	53 ½ 52½
Wednesday	51	521/2

Standard. No. 3

																		white.
Thursday																	3534	351/4
Friday .																	353/4	351/4
Saturday	١.																351/2	35
Monday																		341/2
Tuesday																	341/2	34
Wednesda	y						. ,										341/4	331/2
Beans	-(	)	u	o'	ta	11	i	0	n	S		h	18	1	V	e	been cu	t a lit-
tle for ca	sl	1	1	0	se	11	n	S	1	d	u	r	i	n	g		the week	. No-
vember d	le	i	V	e	r	V		is	3		S	t	e	a	d	13	The	deal is
easy and	8	e	11	e	r	S		a	p	p	6	36	u		9	f	to be th	ne only

arties upon the local market Tuesday. the following are the nominal quotations or the week: Cash.

Thursday		ľ																	\$2.07	1	\$2.00
Friday		î	ľ			·	i												2.07		2.00
Saturday						·													2.05		2.00
Monday .												٠	٠						2.05		2.00
Tuesday	ď																		2.05		$\frac{2.00}{2.00}$
Wednesday	7			٠	٠	٠		٠	•	٠	٠	٠	٠	٠	•	•	•	٠	2.05		
Clausenso		4				A		0			10	1	٠		d	10	10	ı١	of	hus	ness

Cloverseed.—A great deal of business has been transacted on the cloverseed market the past week and prices have gone down in the showing made by the sellers. They appear to have gotten hold of a fairly large amount of the product. Prices declined about a half dollar. Alske went the way of the other kinds but only declined about half as much. Quotations are:

tations are: Prime Spot.	Dec.	Alsike.
Thursday\$9.00	\$9.05	\$9.00
Friday 8.60	8.65	9.00
Saturday 8.60	8.65	8.75
Monday 8.60	8.65	8.75
Tuesday 8.45	8.45	8.75
Wednesday 8.50	8.55	8.75

Rye.—Market higher and steady at the advance. Quotation for No. 1 is 77c per bu., which is 2c above the price of a week ago.

### Visible Supply of Grains.

											T	his		wee	k.	La	st	W	eek
Wheat												.37	, E	573,0	000				,000
Corn				٠.								. 3	, 7	96,0	000				.000
Oats		٠.	٠.									.17	, 8	886,0	0.00				,000
Rve .				٠.									4	106,0	000				,000
Barley		1										. 2,	,5	96,0	000		2,6	330	,000
	F	10	ou	ır	,	F	= 6	26	ed	١,		Pro	0	visio	ons,	Et	c.		

# Flour.—The flour trade is active at changed figures. Quotations are: Clear \$4.30 Straight 4.80 Patent Michigan 5.45 Ordinary Patent 4.50

\$23 per ton.

Potatoes.—The discouraging news from dealers last week appears to have arrested the slide of values to lower levels and held them steady at the figures then quoted. The market is still said to be easy but the small yields and the indications of a small crop for the country will, no doubt, keep the trade about where it it. In car lots Michigan potatoes are selling at 45@50c.

Provisions.—Mess pork, \$22.50; family pork, \$23; medium clear, \$21.50@22.50; smoked hams, 15½c; dry salted briskets, 14½c; shoulders, 12c; pienic hams, 11c; bacon, 19@23c; lard in tierces, 13½c; kettle rendered, 14½c per lb.

Dairy and Poultry Products.

Butter.—The trade noted no change the last several days and prices are ruling on last week's basis. Elgin is steady and the market here is in harmony with the Illinois butter center. The quotations are: Extra creamery, 29½c; firsts, do., 27c; dairy, 23c; packing stock, 22c per lb.

Eggs.—Still the price of eggs keeps gradually advancing, having made a half cent gain since last week. There is scarcely no volume to the receipts and the demand is strong. Fresh receipts, cases included, case count, are quoted at 25½c per doubt.

Poultry.—Birds are coming to the market in large numbers and the trade is having a hard time to keep them moving properly. Spring chickens are averaging a shade lower than last week at 13@13½c per lb; hens are easy at 10@12½c; turkeys show a little tendency downward and are now quoted at 16@17c; geese are steady at 10@11c; ducks unchanged at 14c per lb.

Cheese.—Michigan, late made. 15c; Michigan, fall made, 17½@18c; York state, 17½@18c; limburger, old, 17@18c; Swiss, domestic block, 21@22c; cream brick, 16½@17c.

domestic 16½@17c.

Fruits and Vegetables.

Apples.—Offerings are large. Choice consignments are selling at \$3@3.50; common kinds and grades, \$2@3 per bbl. Cabbage.—Steady. Selling at \$1.50 per

Cabbage.—Steady. Selling at \$1.50 pc. bbl. for new.

Peaches.—Season nearly done. Prices are higher and range from \$2.50@2.75 for Michigan products.

Tomatoes.—Market higher. Generally quoted at 75@90c per b1.

Grapes.—Concords, 4-lb. baskets, 16c; Niagaras, 17c; Delawares, \$18c.

Pears.—Selling at 75c@\$1.50 per bu.

### OTHER MARKETS.

Grand Rapids.

It is now pretty certain that potatoes have reached bottom prices. Local dealers are paying 25c in the Grand Rapids freight zone, 22c in Cadillac and Manton territory and 20c at points farther north. Farmers are not selling at these prices, preferring to put stock in pits. The bean market is also in the dumps, prices to farmers being on the \$1.80 basis. Onions are a fine crop in western Michigan, being firm and even in size. The price for carload lots ranges from 40@45c. Wheat is off to 91c for No. 1 red and 88c for No. 2 white. New corn, No. 2 yellow, starts off at 45c this fall. Tomatoes were cheap Tuesday morning, barely reaching 35c. Potatoes in a small way brought 40@45c. Celery is worth 15@20c; cabbage 35c bu. Farmers are getting \$16@17 for good timothy hay. Dressed hogs are worth around 11c. Live poultry, delivered, is quoted as follows: Fowls and chickens, 10@10½c; ducks, 10@10½c; turkeys, 14c; geese, 8½c. Veal is worth 6@11c. Eggs are unchanged at 24@24½c. Creamery butter is up ½c, dairy unchanged.

### New York.

New York.

Butter.—Steady, with all grades showing a good advance. Creamery specials quoted at 32c; extras, 30½@31c; thirds to firsts. 24@29c.

Eggs.—The market is reported quiet, but despite this all grades are quoted higher. Nearby eggs quoted at 34@42c; fresh gathered extras, 28½@30c; firsts, 26½@27½c dozen.

Poultry.—Live poultry is steady, while dressed fowls have a quiet trade. Live. Springers, 14c; fowls, 14@16c; turkeys, 12@15c. Dressed stock quoted as follows: Western broilers, 17@20c; fowls, 13@18c; spring turkeys, 14@25c.

Wheat.—No. 2 red, 94½@95½c; December, 93%c; May, \$1.00 per bu.
Corn.—No. 2 mixed, 47%c; December, 46½c; May, 49%c.
Oats.—No. 2 white, 31½c; December, 30½c; May, 34c.
Butter.—Market form Chicago. red, 94½@95½c; Decem-

46½c; May, 49%c.
Oats.—No. 2 white, 31½c; December, 30½c; May, 34c.
Butter.—Market firmer under fairly active trading. Top-notch creamery is 1c higher than last week. Creameries, 24@ 29c; dairies, 23@27c.
Eggs.—Trading easier and a little slow this week, although former quotations still rule. Quotations are: Prime firsts, 26c; firsts, 24c; at mark, cases included, 18½@21½c dozen.
Hay and Straw.—The market continues strong at last week's advanced figures. Quotations are: Choice timothy, \$19.50@20.50; No. 1 timothy, \$18@19; No. 2 do. and No. 1 mixed, \$16@17.50; No. 3 do. and No. 2 mixed, \$14@15.50; rye straw, \$8@8.50; oat straw, \$6.50@7; wheat straw, \$6@6.50 per ton.
Potatoes.—Receipts continue liberal and the market is easier; prices have declined about 2c since this time last week. Choice to fancy are quoted at 50@53c per bu; fair to good, 38@43c.

\$15; rye straw, \$7@7.50; wheat and oat straw, \$6.50@7 per ton.

Feed.—With the exception of middlings, which are higher, feeds show a decline for the week. Carlot prices on track are: there was an increased call and better Bran, \$25 per ton; coarse middlings, \$25; coarse corn meal, \$25; corn and oat chop, \$23 per ton.

Potatoes.—The discouraging news from dealers last week appears to have arrested the slide of values to lower levels and held them steady at the figures then quoted. The market is still said to be easy but the small yields and the indications of a small crop for the country will, no doubt, keep the trade about where it, if. In car lots Michigan potatoes are selling at 45@50c.

Toledo.

Clover Seed.—Prices have declined rapidly the past week, cloverseed losing 65c and alsike 20c. Closing quotations were: Cash, \$8.50; December, \$8.50; alsike, cash, \$9; December, \$9.

Butter.—Trade firm at 29c per lb., which is on a par with the price of last week. Sales for the week amounted to 689,300 lbs., as compared with 694,700 lbs. for the previous week.

### THE LIVE STOCK MARKETS.

Buffalo.

October 17, 1910.

(Special report by Dunning & Stevens, New York Central Stock Yards, East Buffalo, N. Y.)

Receipts of stock here today as follows: Cattle, 125 cars; hogs, 14,300; sheep and lambs, 19,000; calves, 1,200.

With 215 loads of cattle on our market here today, and 42,000 reported in Chicago and lower, and with a light attendance of buyers here, our market was from 20@40c per hundred weight lower on all grades.

ance of buyers here, our market was from 20@40c per hundred weight lower on all grades.

We quote: Best 1.300 to 1.400-lb. steers \$6.85@7.25; good prime 1.200 to 1.300-lb. do., \$6.25@6.75; best 1.100 to 1.200-lb shipping steers, \$5.65@6.25; medium butcher steers, \$4.50@5; best fat cows, \$4.50@5.10; fair to good cows, \$3.25@4.7cmmon to medium do., \$3.@3.50; trimmers, \$2.75@3; best fat heifers, \$5.25@6; good do., \$4.25@4.75; fair to good do., \$3.75@4.25; tock heifers, \$3.25@3.75; best feeding steers, dehorned, \$5.@5.25; medium to good feeding steers, \$4.25@4.50; stockers, all grades, \$3.50@5.75; best bulls \$4.75.@5; bologna bulls, \$3.75@4.25; light thin bulls, \$3.25@3.75; best milkers and springers, \$70@80; good do., \$50@65; common to good do., \$35.@40. A few extra good cows brought \$5.25. Common stock cattle were slow sale on the market today.

Ninety-five cars on sale today, our hog.

good cows brought \$5.25. Common steek cattle were slow sale on the market to-day.

Ninety-five cars on sale today, our hog market opened about steady with Saturday's prices. Closed steady at the opening, with a good clearance of all that was yarded in time for the market.

We quote: Heavies and medium, \$9.15 @9.40; mixed, \$9.30@9.40; rough, \$7.70@7.75; stags, \$6.50@7. Prospects only fair.

The lamb market opened up slow today, with prices about 75c per hundred weight lower than last Monday; most of the best handy lambs selling at 7c. Market very dull on heavy lambs; most of the northern Michigan lambs selling at \$6.75. Closing steady, about all sold. Look for steady prices balance of week. Handy sheep were strong today, and prospects are for about steady prices on sheep balance of week.

We quote: Spring lambs, \$6.90@7;

week.
We quote: Spring lambs, \$6.90@7;
wethers, \$4.50@4.75; cull sheep, \$2.50@3;
bucks, \$2.50@3.25; yearlings, \$5@5.50;
heavy ewes, \$4@4.10; handy ewes, \$4@
4.25; northern Michigan lambs, \$6.766
6.85; yeals, choice to extra \$10@10.50;
fair to good do., \$7.50@9.75; heavy calves,
\$6@7. week.

### Chicago.

Chicage.

October 17, 1910.
Cattle. Hogs. Sheep.
Received today .....43,000 28,000 70,000
Same day last year. 36,859 23,022 45,482
Received last week. 73,919 83,730 227,748
Same week last year. 76,159 91,260 165,474
The enormous receipts of cattle today,
Monday, caused universal surprise the
offerings including around 13,000 from
western ranges and a big supply of ordinary and medium grades of natives.
There was a sale of fancy beeves at
\$7.90, choice cattle being steady and in
demand, but the general market was
slow, sellers quoting declines of around
10@20c or even more now and then. Hogs
had a decidedly better local and shipping
demand, the market gathering strength had a decidedly better local and shipping demand, the market gathering strength as the day advanced. Early sales were a nickel higher, while at a late hour the market was called largely a dime better. Sales were at \$8.25@9.40, and there was a late sale at \$9.45 for light hogs. As usual, heavy packing lots were slowest and lowest. Hogs received last week averaged 257 lbs., compared with 261 lbs. a week earlier, 264 lbs. two weeks ago, 226 lbs. a year ago, 208 lbs. two years ago and 237 lbs. three years ago. Evidently, some farmers are scared over the prospects, but enough are holding back hogs to put prices higher. A week ago the pects, but enough are holding back hogs to put prices higher. A week ago the best hogs brought \$8.95. Sheep and lamb receipts were estimated early today at 75.000 and later at 70,000 down to not over 65,000. Demand was good, and prices were steady at \$4.07.15 for lambs, \$4.09.45.0 for wethers, \$1.75.04.25 for ewes, \$2.50.03.50 for bucks, and \$4.50.05.50 for yearlings. Breeding ewes were salable at \$4.09.525, feeder lambs at \$4.06.50, feeder wethers at \$3.25.04, and feeder yearlings at \$4.50.05.40.

season, and numerous range shippers stated that it was their inability to get all the cars they ordered which held the repits down to this number. The marters are not as the part of the time of the circumstances, with a good under the colosed out frequently at reduced prices from recent quotations. Steers from feeding districts went largely at \$5.000.7.50, with no 'considerable supplies of choice beeves except on Monday and Wednesday, usually the days of large receipts of cattle. The choicer lots of steers taken for eastern shipment sold at \$7.68 and the poorer light killers at \$4.6006.560, while export steers were salable at \$6.250, visually export steers were salable at \$3.200.8.80, few going near the top, while canners and cutters sold at \$2.03.25 and buils at \$3.05.5. Calves were steered to the salable at \$3.250, 4.90, while feeders moved off freely on the basis of \$4.5000.560, a few loads of fancy 1,180-lb. feeders bringing \$5.85. Western range cattle are expected for the near future.

Hogs showed a further widening tendency in prices last week, the small percentage of choice light and medium weights being apt to advance at times when extra heavy old packing sows were dull and declining. The aggregate hog supplies were only moderate here and at \$1.000 to the salable at \$1.000

Cattle feeders in various sections are enthusiastic regarding the benefits derived from feeding silage, which is gaining ground all the time as an economical feed for producing beef. An abundance of cheap, succulent food is furnished by corn and fodder put in the silo, and the large shrinkage in cattle changing from green to dry feed is prevented



### THIS PITLESS SCALE Guaranteed U.S. Standard WHOLESALE PRICE

Let us save you \$25 to \$50 on the finest scale made. The ball-bearing principle alone doubles its value—gives a freedom of movement that prevents Binding and Clonging.

The only scale sold at wholesale price to farmer on 30 bays Free Frisi—on a full 10 Years' guarantee. Requires no pit-digging, no wood except floor. Don't take the other fellow's weights.

Write for price, freight paid, free trial and guaranty.

INDIANA PITLESS SCALE CO., Box 10A, New Castle, Indiana

medium age, \$40@65; common milkers, \$25@35.

Bishop, B. & H. sold Mich. B. Co. 2 cows av 915 at \$3.25, 1 do weighing 1,250 at \$4.27 butchers av 852 at \$4.10, 7 do av 4746 at \$4.15, 6 steers av 956 at \$5.75; to Sullivan P. Co. 1 bull weighing 1,150 at \$3.75, 4 cows av 1,220 at \$4.40; to Parker, W. & Co. 5 steers av 610 at \$4; to Regan 2 heifers av 550 at \$3.60; to Jughlin 6 cows av 885 at \$2.75, 2 do av 895 at \$3.25; to Kamman B. Co. 2 steers av 775 at \$4, 1 cow weighing 890 at \$3.50, 4 butchers av 822 at \$4.50; to Kamman 3 cows av 1,057 at \$3.75; to Hammond, S. & Co. 5 cows av 726 at \$2; to Regan 2 heifers av 1,000 at \$3.75; to Regan 2 heifers av 1,000 at \$4.4 do av 945 at \$3; to Parker, W. & Co. 11 steers and heifers av 1,001 at \$4.70; to Fronn 1 heifer weighing 1,000 at \$4.4 do av 945 at \$3; to Parker, W. & Co. 11 steers and heifers av 1,091 at \$5.75.

Roe Com. Co. sold Thompson Bros. 60 sheep av 95 at \$3.85.

Roe Com. Co. 35 sheep av 95 at \$3.85.

Carmody sold same 66 do av 78 at \$6.50.

Bohm sold Hammond, S. & Co. 10 sheep av 107 at \$3.375, 12 lambs av 75 at \$6.60.

Taggart sold Newton B. Co. 8 sheep av 105 at \$3.75; to Regan 2 heifers av 1,007 at \$3.75; to Regan 2 heifers av 1,007 at \$3.70; to Sullivan P. Co. 3 cows av 726 at \$6.75.

Downey sold Barlage 7 lambs av 80 at \$6.60.

Allington sold Barlage 7 lambs av 80 at \$6.50.

Allington sold Barlage 7 lambs av 75 at \$6.75.

Downey sold Nagle P. Co. 18 lambs av 65 at \$6.50.

Allington sold Barlage 7 lambs av 80 at \$6.50.

Allington sold Barlage 7 lambs av 80 at \$6.51.

Downey sold Nagle P. Co. 18 lambs av 65 at \$6.50.

Allington sold Barlage 7 lambs av 80 at \$6.50.

Allington sold Barlage 7 lambs av 80 at \$6.51.

Haddrill & C. sold Fitzpatrick 26 sheep av 90 at \$3.

Wagner sold Youngs 82 lambs av 65 at \$6.50.

All addrill & C. sold Fitzpatrick 26 sheep av 90 at \$3.

Market 10@15c lower

Veal Calves.

Receipts, 621. Market steady at last hursday's prices. Best, \$9@9.50; others, \$4@8.75; milch cows and springers beady

\$65 at \$2.75; to Bordine 23 lambs av 67 at \$6.10.

Bishop, B. & H. sold Parker, W. & Co. 71 lambs av 68 at \$6.50, 38 do av 47 at \$5.50, 3 sheep av 92 at \$3; to Mich. B. Co. 43 lambs av 65 at \$6.25, 30 sheep av 112 at \$3.75, 4 do av 118 at \$3.75, 34 do av 90 at \$3.25; to Bordine 100 lambs av 55 at \$6.25; to Gordon & B. 26 do av 45 at \$5.50, 35 do av 65 at \$6; to Newton B. Co. 13 sheep av 100 at \$3.75; to Nagle P. Co. 90 lambs av 80 at \$6.50, 80 av 70 at \$6.50, 69 av 60 at \$6.11 sheep av 87 at \$6.50, 69 av 60 at \$6.50; to Barlage 19 lambs av 60 at \$6.50; to Newton B. Co. 9 sheep av 110 at \$3.50; to Barlage 19 lambs av 60 at \$6.50; to Newton B. Co. 9 sheep av 120 at \$4; to Mich. B. Co. 47 lambs av 70 at \$6.35; to Fitzpatrick Bros. 33 do av 65 at \$6.30.

Roe Com. Co. sold Thompson Bros. 60 sheep av 95 at \$3.85.

Hyne sold Sullivan P. Co. 35 sheep av 120 at \$3.50; to Barlage 19 120 at \$3.50

at \$3.76; to Sullivan P. Co. 3 cows avariable of the surface of th

Range of prices: Light to good butchers, \$8.75@8.90; pigs, \$8.75@8.90; light light yorkers, \$8.75@8.90; stags one-third off.

rnursdays prices. Best, \$300.50.0. Hight yorkers, \$8.75@8.90; stags one-third off.

Rishop, Bullen & Holmes sold Hammond, S. & Co. 4 av 185 at \$6, 4 av 145 at \$8.50, 10 av 160 at \$9.50, 1 weighing 170 at \$8.50, 7 av 165 at \$9.25; to Mich. B. Co. 6 av 150 at \$9; to Goose 2 av 245 at \$4.50, 6 av 150 at \$9.50 at \$9.50 at \$8.75, 5 -av 145 at \$9.50, 5 av 155 at \$9.50 at \$8.75, 5 -av 145 at \$9.50, 5 av 155 at \$9.50 at \$8.50.

Bennett & S. sold Mich. B. Co. 4 av 140 at \$8.75.

Wagner sold Burnstine 5 av 150 at \$9.50.

Bergin & W. sold Sullivan 30 av 145 at \$9.50.

Carmody sold Brunt 7 av 150 at \$8.25, Spicer & R. sold Mich. B. Co. 1 av 160 at \$8.75; to Goose 6 av 250 at \$4.50, 6 av 150 at \$8.75; to Mich. B. Co. 6 av 150 at \$9.50.

Carmody sold Brunt 7 av 150 at \$8.25, Spicer & R. sold Mich. B. Co. 1 to Goose 6 av 250 at \$4.50, 6 av 130 at \$8.75; to Mich. B. Co. 2 av 140 at \$7, 3 av 155 at \$9.25; 2 to Mich. B. Co. 2 av 140 at \$7, 3 av 155 at \$9.25; 2 to Mich. B. Co. 2 av 140 at \$7, 3 av 155 at \$9.25; 2 to Mich. B. Co. 2 av 140 at \$7, 3 av 155 at \$9.25; 2 to Mich. B. Co. 2 av 140 at \$7, 3 av 155 at \$9.25; 2 to Mich. B. Co. 2 av 140 at \$7, 3 av 155 at \$9.25; 2 to Mich. B. Co. 2 av 140 at \$7, 3 av 155 at \$9.25; 2 to Mich. B. Co. 2 av 140 at \$7, 3 av 155 at \$9.25; 2 to Mich. B. Co. 2 av 140 at \$7, 3 av 155 at \$9.25; 2 to Mich. B. Co. 2 av 140 at \$7, 3 av 155 at \$9.25; 2 to Mich. B. Co. 2 av 140 at \$7, 3 av 155 at \$9.25; 2 to Mich. B. Co. 2 av 140 at \$7, 3 av 155 at \$9.25; 2 to Mich. B. Co. 2 av 140 at \$7, 3 av 155 at \$9.25; 2 to Mich. B. Co. 2 av 140 at \$7, 3 av 155 at \$9.25; 2 to Mich. B. Co. 2 av 140 at \$7, 3 av 155 at \$9.25; 2 to Mich. B. Co. 2 av 140 at \$7, 3 av 155 at \$9.25; 2 to Mich. B. Co. 2 av 140 at \$7, 3 av 155 at \$9.25; 2 to Mich. B. Co. 2 av 140 at \$7, 3 av 155 at \$9.25; 2 to Mich. B. Co. 2 av 140 at \$7, 3 av 155 at \$9.25; 2 to Mich. B. Co. 3 av 140 at \$7, 3 av 155 at \$9.25; 2 to Mich. B. Co. 4 av 140 at \$7, 3 av 155 at \$9.25; 2 to Mich. B. Co. 4 av 140 at \$7, 3 av 155 at \$9.25; 2 to Mich. B. Co. 4 av 140 at \$

THIS IS THE LAST EDITION.

In the first edition the Detroit Live Stock markets are right up on markets are right up on analysis of the stock markets are right up on analysis of the stock markets are right up on analysis of the stock markets are right up on analysis of the stock markets are right up on analysis of the stock markets are right up on analysis of the stock markets are right up on the stock market are right up on the stock market are right up on the stock markets are

### CROP AND MARKET NOTES.

Lapeer Co., Oct. 10.—Cool wave now on hand; frosts have occurred the past week, also heavy rains which found some corn yet uncut, and lots of beans, although pulled, yet in the fields. There is not one-half of the potato crop dug as yet, and the prices for potatoes have dropped, much to the dismay of potato growers Wheat fields are looking promising and growing fast, which will insure a good, heavy top before winter sets in. The late rains have improved pastures somewhat and also helped the new seeding, which was much needed. Some were filling their silos last week on the frosted corn crop. Labor scarce and high. Butter, 27c; eggs, 25c. But few tomatoes ripened this season. They are quoted at 60c per bu. Some transfers in farms. Auction sales commenced. Sugar beets, mangel wurzels, carrots, cabbage, pumpkins, squash, etc., have done well this season, for which we are very thankful. The district and county fairs all had a good show of farm products.

Kent Co., Oct. 12.—Now, while the late potato crop is under process of harvesting is a good time to go from field to field and learn actual facts and details concerning the crop. This I have done and I find the crop here in northern Kent county a fair average. Well handled fields with suitable soil are a full average crop and of excellent quality. Other fields with less fertile soil are considerably below the average yield in marketable stock. The market has slumped off some under pressure of green, undestrable stock. Fall pigs are still scarce and high, scains, also

stock. The market has sumped on some under pressure of green, undesirable stock. Fall pigs are still scarce and high, going at \$3 each. Meat stock is also scarce and high and milch cows are no cheaper. Fresh cows bring fabulous prices. Fine weather for crop gathering which is being carried on rapidly.

which is being carried on rapidly.

Ohio.

Wayne Co., Oct. 17.—The weather is fine, having had no frosts to do any damage to speak of. Potato digging in progress, yield about half a crop, tubers good size but very few in a hill. Corn husking commenced. Corn crop fair, yielding about an average. Wheat all sowed and looking well. Wheat, 90c bu; potatoes, 35c; butter, 28c lb; eggs, 24c dozen.

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You can save 50% on your coal bills this Winter by buying Riverdale Storm Sash and Doors. We save you one third. We are manufacturers selling direct to you. You need that extra profit more than your local lumber dealer does. Buy direct of us and save that much clear money. You also need that extra profit your dealer gets on your coal bill.

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want Fifteen Men, power users or farmers, to use and demonstrate these fifteen Highly Finished Engines in fifteen different localities. Each outfit guaranteed to run on Kerosene oil. Other sizes up to 20 h. p. Big FREE Each outfit guaranteed to run of these reliable work engines take the heavy load off your shoulders. It will pump water, saw wood, grind feed, turn the wringer, washing machine, fanning mill, grindstone, etc. Free information bureau tells you what kind of engine you need. Come to Detroit if you can, or write to the

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comfortable living, enjoyment and genial climate. Famous for fruit and quite as good for general farming. Land values are advancing, but farms are cheaper than elsewhere with equal advantages—if such a STATE BOARD OF AGRICULTURE, Dover, Delaware.

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## HALLOWE'EN FUN AND GOODIES.

BY MARJORIE MARCH.

out, for the very goblins will help to make it a success and the witches of fun and frolic will make the simplest preparations adequate for a good time.

the table at such an event, and autumn ribbons, and the husks pulled back to fruits, vegetables and flowers can be show the yellow ear. brought into play as decorations, with The table may be dimly lighted with telling effect. Our pictures show two jack-o'-lanterns and with candles stuck

CTOBER makes its bow of farewell number of correct guesses if so desired. with Hallowe'en, that feast when Then all unmask and the usual fun of the witches hold sway. This can bobbing for apples, telling stories, etc., hostess' fancy, but usually consists of one easily become a good opportunity for the before the blazing fire on the hearth, popcountry hostess to have the latch string ping corn and cracking nuts can be enjoyed.

Hallowe'en Table Decorations.

Decorate the dining-room with sentinels of tall cornstalks on either side the All sorts of pretty novelties may grace entrance doors, these tied back by red

supper table, many prefer to have the lights turned on while the guests are enjoying the good things, thinking that it is more hospitable and that all enjoy their supper more if lights are blazed forth instead of being subdued.

The menu can be according to any or two substantial hot dishes, followed by old-fashioned goodies and ice cream as an ending if desired.

Hallowe'en Chicken.

Cut cooked chicken in small pieces and add an equal number of slices of cold roasted veal. Heat one cup of chicken soup and season to taste, with salt, pepper and a little mustard. Add the chicken and veal and let cook for five or six minutes and then add three tablespoonfuls of currant jelly. Serve hot, garnished with parsley.

Oyster Pies.

Pretty little blue baking dishes in which to serve small pies make them attractive in themselves. Line them with paste and fill with washed oysters and add to them a sauce made by adding to the strained oyster juice a little milk, the yolks of two eggs. a little flour, salt, pepper and a dash of nutmeg. Cover with paste and bake until brown. Any kind of meat would also serve as the basis for Halloe'en individual pies.

Chicken or Turkey Croquettes.

Chicken or turkey croquettes with a stuffed olive in each are nice for an evening repast. Have the platter edged with small mounds of cranberry jelly, which makes a delicious accompaniment and looks pretty as well.

Corn Cream in Cups.

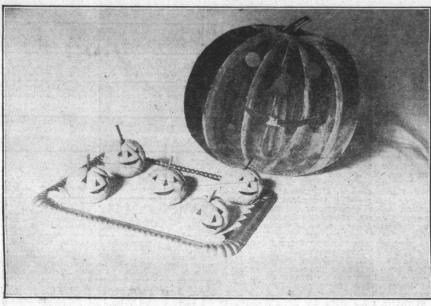
Chop fine a can of corn in a chopping bowl. Let simmer with a little water for five minutes. Heat two cups of milk with a slice of onion, remove the onion, add the corn and salt and pepper. Make a cream sauce with two tablespoonfuls of butter; two of flour and the addition of the corn liquid. Serve in blue bowls or cups, with crackers or small slices of toast.

Apple Dumpling Baked.

Make a delicious crust of one cup of cream, one heaping teaspoonful of baking powder, salt and flour to roll. Cut in rounds or squares. Have apples sliced and put them on some crust, covering with cinnamon and sugar to taste. Bake and mouth be embedded in the cream piece is a big chopping bowl filled with in a hot oven and serve with cream or

Nut Cake.

Cream one cupful of granulated sugar chocolate surmounted either by a doll add one cupful of chopped nut meats.



Jack-o'-Lantern Ices.

twigs perched on top; the second illustra- kins on for handles, and cut off only a faces pasted on with gilt paper to make them represent tiny jack-o'-lanterns; or, if desired, the faces may be cut from bits of citron and angelica, and eyes, nose with the same effect. A pumpkin jacko'-lantern also smiles in the background, of autumn leaves. I give below some table suggestions, also

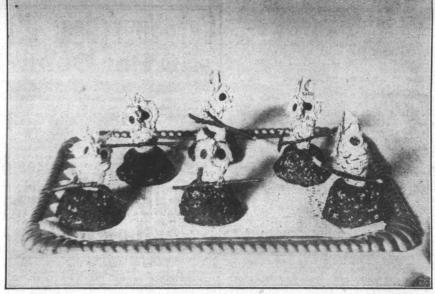
The invitations may be cards cut from yelow cardboard in pumpkin shape, decorated with witches, black cats, bats, If a hostess cannot decorate these herself with water colors, she can cut the symbols from black paper, using a pattern from similar pictures to be found in many books, magazines, etc., and paste these little decorations on. These cunning cards may be made as booklet covers, having the invitation written on paper leaves within, or the bidding may be written on the round cards themselves. Green, red or yellow baby ribbon tie the booklets together.

The rooms of the house may be decorated with great branches of autumn leaves and with pumpkin jack-o'-lanterns. Red and yellow festoons of crepe paper are also effective, while bats, cats and owls may be cut from cardboard and hung about with striking result.

When all are gathered together, and all may be asked to cone in sheet and pillow case masquerade, the hostess herself being so garbed, each one may be given a little booklet with number in it, and each person is also given a number to be pinned on to serve as a means of identification. Seat one guest at a time in the center of the dimly lighted room and have the procession of masked figures pass before their gaze, giving them time to write down their guesses of identification by using the numbers on the people and writing their guess by the corresponding number in the booklet. The per- cunning favors. son recording his guesses has the priviof asking each masquerader one question and there will be merry fun over are all pretty to drape from the chande- dough may be preferred. the disguised voices. Some little gift may lier. While the dim lights are advocated be given the one who has the greatest by hostesses for the first glimpse of the

pretty fancies for the table. One is in polished apples, some of the dishes small chocolate cakes called "Mid-night being covered with pumpkin shell covers. with quaint little paper owls on In this case leave the stems of the pumption shows ices in small pumpkin shape, small part of the blossom end, hollowing out the rest so that it can cover a dish easily and completely. A bright red table cover makes a pretty setting to the feast and a simple and effective center nuts and fruits and edged with a wreath whipped cream, or with foamy sauce.

Another odd center piece would be a some delicious recipes for a Hallowe'en big round cake frosted white or with and one-half cup of butter and gradually



Mid-Night Cakes with Owls on Guard.

o'-lanterns make a circle around the cake. two teaspoonfuls of baking powder, alter-Another simple and pretty center piece nately with one-half cup of strong, clear is a big bunch of corn.

Bonbons in tiny toy kettles would make

Nuts, gilded, with tiny red apples strung on colored cords or gilded popcorn illustration, or a gingerbread or chocolate

witch with the usual broomstick, an owl Add one beaten egg and gradually add or a toy black cat. Grinning little jack- one and three-fourths cups of flour with coffee. Bake in a moderate oven and frost with Mocha or chocolate frosting. This recipe may be baked in small tins to produce the "Mid-night Cakes" of our

> Apricot Jam Omelet. Beat the yolks of five eggs very light,

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"All my life I have been such a slave to coffee that the very aroma of it was enough to set my nerves quivering. kept gradually losing my health but I used to say 'nonsense, it don't hurt me. 'Slowly I was forced to admit the truth and the final result was that my whole nervous force was shattered.

"My heart became weak and uncertain in its action and that frightened me. Finally my physician told me, about a year ago, that I must stop drinking coffee or I could never expect to be well again.

"I was in despair, for the very thought of the medicines I had tried so many times nauseated me. I thought of Postum but could hardly bring myself to give up the coffee.

"Finally I concluded that I owed it to myself to give Postum a trial. So I got package and carefully followed the directions, and what a delicious, nourishing, rich drink it was! Do you know I found it very easy to shift from coffee to Postum and not mind the change at all?

"Almost immediately after I made the change I found myself better, and as the days went by I kept on improving. My nerves grew sound and steady, I slept well and felt strong and well-balanced all the time.

"Now I am completely cured, with the old nervousness and sickness all gone. In every way I am well once more.

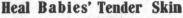
It pays to give up the drink that acts on some like a poison, for health is the greatest fortune one can have.

Read the little book, "The Road to

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Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.







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with a heaping teaspoonful of powdered upon a less strenuous period which is Into this stir one teaspoonful of their just reward. cornstarch dissolved in three tablespoonfuls of cream. Add the beaten whites of kle over with powdered sugar.

### Hallowe'en Salad.

Two eggs, well-beaten, pinch of salt, a teaspoonful of sugar, a pinch of mustard, tablespoonful of flour, half cup of vinegar, half cup of cream, butter the size of boiler. Mix with the apples and celery and add a few chopped nuts. Serve in hollowed-out apple cases with a spray of leaves stuck in the top of each.

Pumpkin Tarts.

Line small tins with pastry and make this filling: One and a half cups of dry sifted pumpkin mixed with a cup of sugar, a cup of milk, a tablespoonful of molasses, two beaten eggs, two tablespoonfuls of melted butter, teaspoonful of ginger and one of cinnamon, pinch of salt. Bake until set. Decorate each tart

with a little whipped cream on top.

English walnuts make the basis of cunning little favors for Hallowe'en. When using the walnut meats preserve the shells carefully. Write little fortunes, tuck them inside of a shell and paste the shell together again. Tie each shell about with either a red or a yellow bow of baby ribbon.

Little black-cat pincushions make odd favors. These are easily made from pieces of black cloth and may have green or yellow bead eyes sewed on.

Tiny gifts may be tacked inside of the wee jack-o'-lantern favor boxes or lanterns which can be bought at any favor shop for a mere trifle. Little pen wipers round with "faces" of red flannel sewed on would make delightful souvenirs of a Hallowe'en supper. Squares of fruit cake put in tiny gilded boxes with a black witch painted on the cover would also be suitable. A red ribbon may be tied about these little boxes and on them may be written:

One, two, three, Dream on me, A witch's spell Will serve thee well Thy lover's name In dreams I'll tell.

### TOWN OR COUNTRY FOR THE RE-TIRED FARMER.

BY ELLA E. ROCKWOOD.

Taking the country over there are probably a greater number of farmers who retire from active life with sufficient other vocation or calling. Our villages homes of these men, envied of those less Town or country, which is best? fortunate financially. Their farms are either sold and the proceeds invested SHORT CUTS FOR HOUSEKEEPERS. where they bring in a good income or they are rented out, thereby securing the same

As a rule your retired farmer enjoys himself pretty well unless wholly deprived of those things which have heretofore been part and parcel of his existence. If he has a horse, a few chickens and a garden spot he can get along fairly well, for these serve to take up his attention and furnish the outlet for his energies which seems so essential to his contentment amid new surroundings. Left with no such diversion time is apt to hang heavy on his hands and he pines for his old-time activities.

As I have observed individual cases of this class I find that the women of the family take rather more kindly to town life than the retired farmer himself. There is more to interest and hold them than When there is nothing in particular to do, a man finds time hanging heavily on his hands, whereas a woman alinevitable sewing and mending which follows her wherever she goes. She also falls easily into church work when she moves to town and there finds a welcome, for are not the churches everywhere ready with the glad hand extended to those who are willing to work? She joins the Aid Society and the W. C. T. U., pleased at the prospect of getting in closer touch with the institutions which heretofore she has enjoyed for the most part without personal participation.

own. The parents have passed through away the old name, and the clothes-pin the stress and strain and entered happily may be used again.-A. G.

One frequently hears exchanges of confidence between people of this class which the eggs. Fry in a hot omelet pan, would indicate that after all life in town spread with apricot jam, fold and sprint to them is not wholly satisfying. It is something like moving old trees which do not take kindly to the changed environ-Take equal parts of sliced celery and ments. There is a hankering for old astart apples. Serve with this dressing; sociations like those of the family in sociations like those of the family in Riley's familiar poem, "Back to Grigsby's Station." The old familiar landmarks cannot be transplanted and the eye misses The big elm or maple which shada walnut. Cook until thick in a double ed the door, the deep well where the coldest draught was found on a hot day, the view across meadow and creek to the green woods which in autumn flame with a perfect riot of gorgeous coloring. These will be missed, as well as the hearty greeting and ready sympathy of neighbors long tried and found true. There will be a certain aloofness toward any new family moving into town in sharp contrast to the free and easy cordiality of country communities.

But just as there is a difference of temperament in us, with no two people exactly alike, so some will take kindly to the change from farm to urban life while others will always look back with regret to the quiet of the country with its freedom and independence, its many luxuries which are high in price in the city, if obtainable at all, to its wideness of vision, its all-out-of-doors, with sky and field and forest, an unproducable charm elsewhere. Resentment will be felt at boundaries which cramp and confine, at raucous noises, chimneys which belch sootladen smoke and the total loss of personal or property rights met at one's very threshhold. Alien feet may trample treasured flower beds and fruit or blossom may be appropriated with ruthless hands, if such there should be, without so much as "by your leave."

With all so-called modern conveniences so readily procurable in country homes as at the present time, with telephone, rural delivery and good roads for the greater part of the year, it seems to me there is slight necessity for retired farmers to move to town. Why not retire and yet not retire? Why not remain on the farm even if it shall pass from the owner's actual management? Why not stay at home and take life easy, as well as to tear up the old roots and transplant them to new soil?

I know some who are doing this, to the supreme satisfaction of all concerned. These men keep a cow or two, the family horse and a flock of chickens. They have the home and the garden. gives them plenty to do, also the leisure to enjoy themselves. The fields are rented on shares or for a cash consideration means to support themselves than of any ample for their needs. The farm will care for them to the end and no possiand cities are filled with the comfortable bility of loss through unsafe investments.

A teaspoonful of cold water added to the white of an egg causes it to whip more quickly and increases the quantity.

Try using a raw potato to clean your window. Cut a large one in halves and rub the window, cutting off a thin slice as the potato gets dry, but do not dip in Leave the glass until the milky water out of potato is dry, then wipe with a clean towel, and your window will shine.-C. R. L.

By going over my kitchen range once a day with the refuse oil from our cream separator, I am able to prevent it rusting in the least degree. Pour the oil, each time separator is used, upon a cloth kept for the purpose, thus making double use of the oil.-A. B. C.

Cut the seam off the closed end of a pillow case, then fold it, so the middle or worn part comes on the outer edge. Seam across the bottom. It will wear as much ways has her household duties which oc- longer as to turn the outer edges of a cupy her days. Besides this, there is the sheet to center, which many of the sisters have

A good way to mark flower seeds, when planted, so that there may be no "doubling up" when the second ones are sowed, is to split a new clothes pin with a sharp knife, and with ink, or indelible pencil. write the name of the seed on the flat, smooth side just cut. The clothes pin, or rather the half pin, may then be pressed into the ground, marking the place, and there will be no danger of papers blowing ersonal participation.

away, or sticks becoming mixed up with
There are usually no children in the rubbish. The marks will be in place until family of the retired farmer. They are the pins are taken up, when a sharp married and gone into homes of their knife will be all that is necessary to pare



—enable people, in all parts of the country, to enjoy OYSTER STEW as fresh, pure and wholesome as residents of cities who live near the Oyster beds of Chesapeake Bay. Oysters are nearly 95 per cent pure water. By our new process this water is removed, leaving all the strength and flavor. This is reduced to a dry powder, placed in scaled bottles and will keep for years. One ounce will make more and better oyster stew than a pint of bulk oysters. When once used will sell without solicitation. We guarantee it absolutely pure under the Pure Food Law. We have a large country trade where oysters were seldom used before. Q.We want a reliable man or woman with a horse and buggy to work up and regularly supply the trade in each community. Only one who can furnish best of references need apply for a position. Good pay and steady work all the year to the right person. Write for particulars about this new economical food product.

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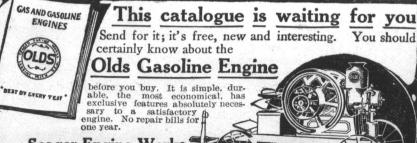
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THE PROGRESS OF THE PANAMA CANAL.

(Concluded from last week).

On the Pacific side in the division so designated, work is progressing rapidly on the dams and locks. At Pedro Miguel stone will be required for the concrete at the excavation for the locks was com- the Pacific works, and is being obtained labor and material. pleted down to grade in July, 1908. This at La Boca. The stripping of the upper entailed the removal of 1,071,696 cubic covering of the quarry has been carried nish air for the rock drills, are operated yards, which amount is included in the on, the material being used in the build- at these shops, and compress each month total yardage under the Culebra section, ing of beds for the tracks to the dam and The single pair of locks of the same dimensions as those at Gatun, is to be connected to the rock portion of an adjacent being an abundance of the proper quality bill to the northwest, by a concrete wall. in a protected bay. Six sand barges and The dam extending across the valley will a tug for towing have been assembled at be of earth and rock with an elevation of 107 feet above the sea and the top width will be 40 feet. As the dam will form a chinery of various kinds in a good state other shops, thus bringing such work convenient dump for spoil from Culebra of repair so as to develop the highest effi- within a smaller range and with reduced cut, its width will be considerably in- ciency, two large shops have been built expense. creased beyond the actual requirements. and equipped with all modern appliances The maximum pressure will be due to a head of 40 feet, the average being 25 to 30 feet. These works will form the upper or southern end of Gatun lake. The lock will rest on solid rock and is of such quality that a portion of it was left to form the wall between the lock chambers up to the level of the culverts, thus affording the maximum of stability.

In locating the site for the Miraflores dam and locks, about two miles south of Pedro Miguel, 266 test holes were bored from which it was determined that the locks will rest on rock of ample strength for the foundations. Excavations for the two pairs of locks were undertaken during the year with eight shovels in use. There were 12 locomotives and a proportionate number of cars in service. The ground of the lock site is low on both sides and of soft material, and the spoil is largely used in making fills to form a part of the back filling required. To the east of locks examinations developed good foundations for concrete dams, and the one from the locks to Miraflores Hill, 750 feet in length, will be of this material. The Cocoli river crosses the lock site water runs off very quickly. A diversion

will be at the dam and locks at Pedro to engines overnight.

Miguel. The flight of two locks at Mira- At Empire the sh flores will reduce the canal to the sea repairs to steam shovels, steel car equiplevel of the Pacific; the distance to the ment, rock drills, and similar excavating waters of the Bay of Panama is about machinery. Of the 100 steam shovels in five miles; and the deepening of the old service during the year, 55 were given French Canal, an aggregate of 18,000,000 general shop repairs, at a cost of \$0.00833 cubic yards previously referred to, is necessitated.

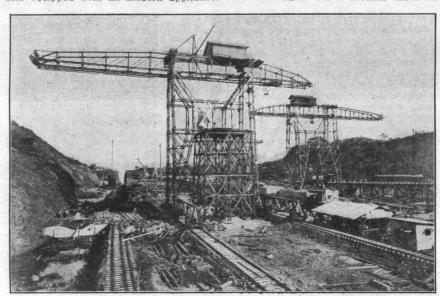
lock sites. The sand needed for concrete is being obtained at Pointe Chame, there the La Boca shipyard.

tion of 55 feet, the northern end of which nilal is equipped for handling light repairs

At Empire the shops perform general per cubic yard of material removed by them. The cost of running repairs, how-About 2,000,000 cubic yards of broken ever, to steam shovels, was for the entire year \$0.01509 per cubic yard for direct

The air-compressor plants, which fur-411,000,000 cubic feet, the cost in June, 1909, being \$0.037 per 1,000 cubic feet. Light repairs to all classes of equipment at the southern end of the canal were handled at the Paraiso shops, which had 41,000 square feet of floor space. This shop has since been dismantled, the ma-To maintain the great quantity of ma- chinery being moved and set up at the

At the end of the 12 months there had

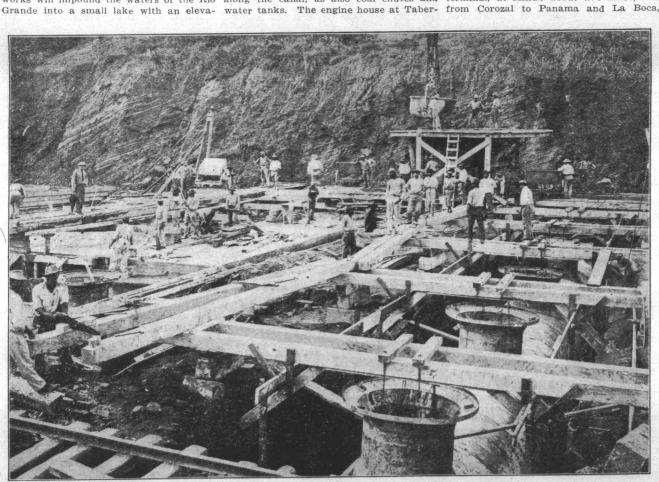


Pedro Miguel Locks as they Appeared in April of this Year.

from the west and is a formidable stream to take care of break-downs of whatever been erected and made ready for service 2,300 feet in length, heavily rip-rapped, brass castings. The iron castings cost 645,222. 40 feet wide on top, which elevation is to for labor and material \$0.029 per pound,

in times of heavy freshets, though the nature. The largest of these shops is lo- 100 steam shovels, 253 locomotives, of cated at Gorgona, and covers 21 acres which 164 are American built, 3,589 Amchannel was cut through the hills 14 having a floor space of 307,000 square erican cars and 621 French cars, 25 miles west of the lock site and a dam very feet. Here the shop repairs are made to cranes, 30 unloaders, 10 track shifters nearly parallel to the axis of the locks, locomotives, and such foundry and manu- (manufactured on the Isthmus) 24 bank extending from the head of the locks to facturing work as is necessary. About and earth spreaders, 46 unloading plows Cocoli Hill, was required to force the one-third of the output was manufac- and 16 pile drivers (also made on the stream through this diversion, and is, tured material, including 4,586,342 pounds Isthmus). There were employed in the therefore, of a permanent character. The of gray-iron castings, 50,000 pounds of department during this time 2,208 men, west dam at Miraflores will be of earth, semi-steel castings, and 333,416 pounds of and the expenditures amounted to \$5,

The relocation of the Panama railroad be 70 feet. The dam will be founded on and brass castings \$0.1651 per pound, in- is made necessary by the overflow of the impervious material and will be subject- cluding the cost of 1,462 patterns. Engine existing roadbed on the completion of the ed to an average head of 30 feet. These houses were built at convenient points lock type of canal. From the Atlantic works will impound the waters of the Rio along the canal, as also coal chutes and terminal, at Mindi, about five miles, and



Cross-Section of a Pedro Miguel Lock Showing Lateral Culvert Forms in Place.



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A number of connecting tracks fixed ideas have been started from the operated line A political campaign is a campaign for to the new location, and such sections the "floaters," men who have no definite of the embankment built up as would precepts. The campaign is not for the the crossing of the Chagres River at to a definite conclusion. So it is with a Gamboa, a new steel bridge 1,320 feet campaign of evil. It assails the "floatlong has been constructed on concrete ers," the drifters, and these are the piers, in order that dirt trains may reach young people. They are too young to The old roadbed crosses the site of the wheat before the sickle. Gatun dam at the head of the locks, and There is one thing th it was necessary to transfer the road to know: children are never too young to the new location so as not to delay the have opinions and fixed principles on work on those structures. This new line moral issues. Every parent wants his from Mindi to Tiger Hill, a distance of child to be an influence for good, but 4½ miles, has been operated for about this will not result if the parent is slow two years

The municipal engineering work of the call of evil. . previous year consisted of completing the waterworks, sewerage systems, and pav- WAYS OF HELPING THE TEACHER. ing in Panama and Colon, the cost of which is being reimbursed to the United States through the collection of water rates in those cities. Other work of this character and road making in the Canal Zone was done as planned. There were 505 new buildings erected in 1907-8, and your children the same amount of perthere are now ample accommodations for all classes of workers, both bachelor and gives? all classes of workers, both bachelor and it." What per cent of her salary does married; new school buildings have been it." What per cent of her salary does each family pay? Let us see what a real built and old ones reconstructed; fire department stations constructed; adequate buildings provided for the courts, postoffices and other administrative offices. The supervision of these departments is now delegated to the chiefs of the divi-sions within whose precincts they lie.

To aid in the sanitary improvements of the Canal Zone, several reservoirs have been built to supply pure water to the towns and engineering headquarters, and nearly all the houses have been connected helping you train your children for noble with running water. As a result the death rate among the white force during and blessing than seeing one's children the year was reduced to 15.34 per thousand. About one-third of these deaths were due to accidents and violence of various kinds, which leaves the death rate from natural causes about 10 per thousand. Among the negro employes, which averaged 31,000, the death rate was 19.48 per brogsand, as compared with 45.94 that of the year 1905-6. Of the total force of 43,057, the average for the year, the death rate was 18.32 per thousand, which is less than half the rate for 1906-7. The total population of the Canal Zone is

"Stand by the men who are building the Panama Canal," is the slogan of the President and the administration; and with such expert judgment every American may feel assured of the successful outcome—the completion of the great Isthmian Canal, and within the specified

### LITTLE ESSAYS OF FACT AND FANCY.

BY CARL S. LOWDEN. Having Opinions and Precepts.

Did you ever see a boat without a rudder? Isn't it helpless? Did you ever see a ship with a pilot that didn't know the channel? Such a pilot would have to trust to luck and appearances. The pas-sengers on board the ship would be in cheerful. imminent peril all the time.

Well, that is the condition that a man fixed principles is in. He will probably blow down with the first moral wind that blows.

Some people have the drifting habit. They don't do anything that is essentially wrong, nor nothing that is particularly They are easy going people and right.
take life as it comes, but
take life as it comes, but
they fall because they have no positive
answer prepared. They can't say "No,"
and back it up with reasons because they
about the question. So
The shout the question of the companion o take life as it comes, but when they are thing is often wrong.

ing liquor?" There are some people that have never tasted intoxicating liquor, but they haven't any thoughts upon the right or wrong of doing so. When somebody says, "Have a drink with me," it is easy to say "Yes." Such an answer will not offend. So they take the first step downoffend. So they take the first step downoward.

While the lark was sitting there.

Only the crack of a rifle That awoke the echoes there—A song was stilled forever, On the hillside brown and bare. ing liquor?" There are some people that

ward.

It is always better to be prepared for this sad mate calling, and her calling was in vain.

Whatever may happen. A little fore-thought is better than much regret when thought is better than much regret when the wind-swept plain. it is too late. If the man who was asked to drink had thought it out before, it only a song gone forever, would have been easy for him to say A song trilled on summer evenings when the hills their shadows cast.

the old line will be used, but between sisted "Why not?" The answer could Mindi and Corozal the road will be car- have been "I never drink." It would have ried to the east of the present location, been acceptable because the drinking man and at a general elevation of 95 feet, or would have seen in it a fixed principle 10 feet above the normal surface of Gatun and everybody respects the man with

materially aid in canal construction. At men who have thought it out, and come the new dumps on the relocated road. have many fixed ideas. So they fall as

> There is one thing that parents should and haphazard and does not forestall the

BY MRS. G. HOWARD SMITH.

How many stop to think what the teacher, the real teacher, is doing for What would you do without a teacher? Could you have time to give sonal help every day that the teacher "But," says one, "We pay her for teacher is doing.

She is at the schoolhouse to greet your children with a smile every morning. She makes them as comfortable as possible. She imparts knowledge, guards their morals, inspires them with higher ideals, and develops a greater love for home and She is doing her best to take the place of both father and mother while your children are under her care. She is usefulness. What can be a greater joy grow into grand and noble men and women?

How can you help the teacher? that your children start for school in a happy frame of mind. Send them forth with a smile and let them know you are expecting them to do what is right and good, to be kind and polite, and to do their work cheerfully and well. They will not disappoint you. And what a beautiful atmosphere it gives the schoolroom. Do not be afraid to let them know you really appreciate what they do.

Have you a nice picture, one that your children love? If so, cannot you loan it for a term to be hung in the schoolroom? The value of a beautiful picture cannot be overestimated. Some beauty loving little one may not have a picture at home. Some one else may have a picture, when you take yours, to hang in its place. May be someone has a vase to spare for a while. A pretty flower is prettier in a neat vase than in an ink bottle or a broken half-gallon can.

Spend a few moments every day or two thinking how you can help the teacher, and when doing so don't forget that she is away from her home that is dear to her, or that she may have no home. Try to make her happy while she is in your district, for it is of vital importance to the school that the teacher be happy and

Very few parents visit the school often enough. Some parents, especially the without definite moral opinions or without fathers, never go. Just try it this term and see if you are not interested enough to go again. Keep in mind the fact that parents and teacher should join hands and hearts in surrounding the children with good, wholesome influences in the home and the school, and that more can be accomplished by co-operation.

hey do the easiest thing, and the easiest only a meadow lark sitting while trilling the sweetest note; The breezes bore the song aloft which he shook from his tiny throat.

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