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FARM NOTES.

Fall Plowing for Alfalfa.

I am very much interested in the queries and answers that I find in the Michigan Farmer. I should like to ask regarding the culture of alfalfa. Could the ground be plowed this fall and limed and sow alfalfa seed in the following spring with a prospect of success?

Illinois.

Subscriber.

Fall plowing for alfalfa is recommended by the best authorities where the seed is to be sown early in the spring. Alfalfa likes a firm seed bed, and if the land is not plowed until just before sowing the seed much more working will be required to get a proper seed bed than if plowed in the late fall or very early spring, the former being preferable on level soils that will not be inclined to wash during the spring rains. Where lime is applied it is best to apply it as soon as the soil is plowed, so that it may be worked into and thoroughly incorporated with the soil when the seed bed is being fitted. It is perhaps not as necessary to have a perfect seed bed for alfalfa sown in the spring as where it is sown in midsummer or early fall, for the reason that there is generally more moisture in the ground at that season of the year, and the spring rains will have a tendency to settle the seil-particles together. Howev can tell when a drought is impending, and is best to have a good seed bed so as to give the young plants the best conditions possible to develop rapidly.

#### Top-Dressing Fall Plowed Land for Alfalfa.

Alfalfa.

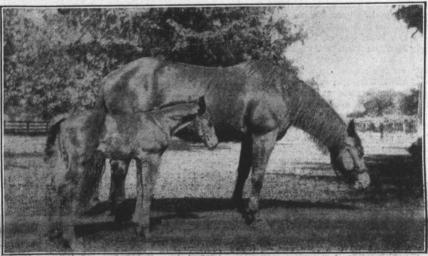
I would like a few lines of advice in regard to alfafa. I have about two acres of red clover and alsike which was cut for hay this year. The ground is high and rolling, of a sandy and gravelly nature. The second growth is now from five to ten inches high. Would it be advisable to fall plow and seed early in the spring? Would you advise top dressing with stable manure in winter or early in the spring? I intend to sow seed at the rate of 15 lbs. per acre with no nurse crop. Lapeer Co.

A. G. W.

The fertility and humps which is added.

to a soil by the application of stable manure is beneficial to the growth of any crop, and alfalfa is no exception in this crop of weeds when applied to the surreason the writer would not follow the

its roots and will add a good deal of weeds will be less troublesome on this likely that inoculation was unnecessary humus to the soil, and by the use of some clover sod without top dressing of ma- on this new land, but this will become commercial fertilizer to supply the min- nure than with, and the application of apparent one way or the other by next eral elements of plant food in abundance fertilizer above advocated will have a season. If the bacteria necessary to the this clover sod should furnish sufficient tendency to hasten the development of the thrifty growth of the plant is in the soil available plant food for the alfalfa with- alfalfa plants and thus give them a more the plants will develop the root nodules



Providing for Motive Power on the Farm in Future Years.

out manuring this spring. One benefit even chance for existence in the battle which is derived from the use of manure, for supremacy. This kind of soil is well has on the useful soil bacteria. But lime has a beneficial effect in preparing of the soil for the growth of the bacteria peculiar to the alfalfa plant and without which it will not thrive, and the application of lime will tend to discourage the growth of some of the weeds harmful to the stand of young alfalfa plants. Thus it would appear to be the better plan to The fertility and humus which is added not make the application of stable manure until after the alfalfa is well started, say next fall when it will help to protect it over winter and give it a good regard. Unfortunately, however, most start the following spring. The objectable manure contains a good deal of tion of the weeds which will result from foul seed which produces an abundant a top dressing of stable manure is not thought to be a serious one by some farmface as a top dressing on plowed ground, ers, as they believe they can keep the and weeds are the worst enemy of the weeds in subjection by frequent clipping young and tender alfalfa plants. For this with the mower. It must be remembered, vever, that alfalfa should not be cut plan suggested in this inquiry. It is bet- until the new buds are developed at the ter to manure the land liberally the year crowns of the plants and begin to send previous to which the alfalfa is sown, out fresh growth. If it is cut before it especially in a dry season like the presplanting it to some cultivated crop which reaches this stage, particularly the first ent. The brown appearance of the plants goes into the winter. The late cutting of may be kept clean and free from weeds season of its growth it is said to be inand sowing the alfalfa the following jurious to the plant, sometimes killing plant is subject to a disease known as their vitality. Undoubtedly the same fact However, the manure might be many of the plants and materially hurt- leaf spot in some seasons, but where this applies to the new stand of alfalfa, and

however, is the beneficial effect which it suited to the crop if in a good state of fertility and the amount of seed noted, if sown without a nurse crop, should give a good stand.

How Closely to Clip Alfalfa.

How Closely to Clip Alfalfa.

I sowed a small field to alfalfa last spring that I had just cleared and got a fine stand without inoculation of any kind. It grew well until it reached about 12 inches in places, when it stopped growing and turned brown and some is blossoming. Does this indicate that it will be a success? Is this a good growth for the first year? I clipped the weeds quite high and will have to cut them again. Will it be advisable to cut them and the alfalfa closer? The land here is very peculiar as it grows very uneven crops. There will be a small plot that will make a rank growth and all around will be small.

Manistee Co. W. W. E. From the description given in this in-

From the description given in this inquiry it would seem probable that this fall. This is true, not only the first sea-alfalfa will prove a success. Where the son of its growth but during the entire plants reach a height of one foot after life of the alfalfa meadow. The best auconsidered to have made a good growth, should be a growth of at least a foot in may be due to the dry weather.

applied to this land before plowing this ing the stand. Thus it is better to have is present the leaves have a spotted apfall or during the winter previous to the ground as free as possible from weed pearance. But so long as the plants are early spring plowing. However, the crop seed when the alfalfa is sown, which is alive and thick enough to make a good of clover which has grown on it this year an argument for sowing it after a culti- stand there is every encouragement to will have stored considerable nitrogen in vated crop as above noted. However, the believe that the crop will succeed. It is which it causes and will have a thrifty, dark green color and appearance when they start next spring and will make a rapid growth. If the bacteria is not present they may live but will make a small spindling growth and will lack the color and appearance of vigor which characterizes the successful stand of alfalfa. An uneven inoculation may be the cause of the spotted appearance of the alfalfa. As above noted, the alfalfa should be clipped only when the new buds at the crowns begin to send out a fresh growth. Ordinarily this will be at about the time the plants begin to bloom. In clipping it is best to clip as closely as practicable without cutting off any of this new growth, as this will prove a greater discouragement for the weeds. But the new shoots coming up from the crowns should not be clipped off, as the future growth of the plants will be injured thereby.

How Late to Clip Alfalfa. How Late to Clip Alfalfa.

Last spring I sowed about half an acre of alfalfa with barley as a nurse crop. I got a good stand. Cut the barley for hay. Some of the alfalfa in blossom. What I want to know is, will it do to clip it on account of dry weather? There is not growth enough to make hay. It was sowed about the second week of April. Clare Co.

Climping this alfalfa at this gassay.

Clipping this alfalfa at this season of the year would be more apt to benefit it than to harm it, notwithstanding the dry weather. When the plants begin to blossom they also begin to send out new growth from the crowns, and when this occurs sufficiently early in the season so the plants will make a good growth before winter it adds to their thrift to clip them. If there is not enough of a growth to make hay, simply clip it off and let it lie on the ground. It will act as a mulch in preventing the rapid evaporation of what moisture is left in the ground, and will afford some protection to the plants over winter. It is, however, injurious to a stand of alfalfa to clip it too late in the clipping the first summer they may be thoritie- on the subject say that there height on the old alfalfa meadow when it The alfalfa weakens the plants and lessens



Good Farms, Well Tilled, Mean Large Barns Well Filled, even in a Season of General Drought such as has Prevailed in Michigan this Year.

growth this year, and the new growth present, will be promoted by a midsum-

Handling the Second Crop of Clover.

I have 20 acres of June clover meadow, which has been mowed once, that I wish to handle in the best possible manner to insure a crop for next season. Will it kill the clover to take off a crop of seed, or will it be a better way to pasture or clip it to prevent it from going to seed? Eaton Co.

A. L. W.

Under ordinary conditions clover does not live to make a very satisfactory stand of clover to cut the second year. While the clover plant is not, strictly speaking, the line. a biennial, and does not of necessity die after the second year or after it has produced seed, it is ordinarily so reduced in vitality that the stand becomes thin. This is more true in our latitude than in the more northern localities where the times endures for a number of years, making a far more satisfactory stand year. But, other condition being equal, the plant will be less reduced in vitality if the second crop is cut for hay or kept from seeding by clipping it back, either point of the inquirer.

Rust in Wheat.

Please give instructions through the fichigan Farmer for preparing seed theat to prevent rust.

Clinton Co. J. W. C. Michigan

The wheat rusts are not only among the most destructive, but as well the most complex and most difficult to control of the parasitic fungi which prey upon agricultural products. Instead of being one such "disease" as is commonly supposed, three kinds of rust are known to attack wheat. These are the crown rust, which is comparatively unimportant; the early or orange leaf-rust, popularly term-ed "red rust," and the late stem-rust, more commonly designated as "black The life history of these fungi is very complicated and none too fully understood. It includes several stages of development, some of which take place on host plants other than wheat. Space will permit a full discussion of the life history of these two destructive kinds of rust. Suffice it to say that no known treatment of the seed or of the plant is effective in preventing its ravages. though the grain from infected fields than usual that I intend to try it again has been found to contain the spores of next year unless I am convinced later en growing plants are infected from this good soaking rain now, however, it would LOW WAGONS FOR SILAGE HAULING. the disease, it is not known that the source and, in case this were true, treat- be a splendid crop ment of the seed could not be effective, as when present they are buried beneath the coat of bran with which the kernels covered. The air is the medium through which the rust spores reach the wheat plants, where they await the moisture of a friendly shower or the falling dew to facilitate their germination and entrance into the tissue of the leaves. When this has been effected rust fungus develops very rapidly and nothing is effective in checking its progress or the resulting damage to the crop.

What, then, can be said with regard to Obviously, such measures? remedial since direct measures are not effective as above noted. Fotunately for us in Michigan, rust is not as destructive to the earlier maturing winter varieties of wheat as to spring wheat. Neither is it so harmful to the strong, vigorous plant as to the weaker plant with less vitality. It is then clear that such measures as will add crop will to the thrift and vigor afford a measure of immunity against damage by rust. First a proper seed bed should be prepared and the soil should be sufficiently well fertilized to insure a vigprous growth of the wheat plants from the start. Then good clean seed of a hardy variety and of the best germinating powers should be sown. The seeding should also be done reasonably early to insure a good development of the plants before winter so as to give them a vigorous, early start in the spring. The seed should be selected from a variety that has not developed rust badly in previous years, since there is considerable difference in the rust resisting qualities of different varieties, although none seem to be entirely immune from attack. If

the clipping should not be delayed too good cultural methods are followed, and rate of one bushel per acre. late in the summer, if it is to be clipped a good rotation of crops is practiced, we again this season. But these plants that can thus escape serious damage from lives through the dry weather or not is are now in bloom will make little more rust in Michigan, unless the weather more than I can tell. But what I am should especially favor its development at surprised at is the oats. On this field of will come on faster if they are clipped or near the blooming period of the crop. off, and the weeds will get a setback from Incidentally it is well to keep the wild from one bushel of seed, and they were the cutting, so that the development of grasses mowed alongside the roadside, as the finest, best filled, nicest oats that we the plants, even in a dry season like the many of these are host plants for the leaf raised. This would seem to indicate that rust during its life cycle. Likewise barmer clipping when they have reached the berry bushes should not be harbored on stage of growth described in this inquiry. the wheat farm, as the stem rust de- ing as heavy as some people, never us velops during one stage of its progressive ing over two bushels to the acre, (some existence on the leaves of this bush. The people use three), yet I did not think that seed wheat should also be treated for four pecks, or a bushel of oats was smut, as the presence of this fungus will enough seed. This, however, gives me a weaken the plants and make them more pretty good crop and a good catch of susceptible to damage from rust. Thus it alfalfa to boot. is apparent that the good wheat grower will generally suffer less loss from rusty and harvesting in this vicinity this year wheat than the indifferent or careless grower. This is but another argument hay in without a spear of it getting wet, for good farming, which pays all along as we also did our wheat and oats. Part

#### LILLIE FARMSTEAD NOTES.

Growing Corn Without Rain.

I have two very good fields of ensilage snow comes early in the fall and remains corn that were planted the very last of in the ground late in the spring. Under May and first of June that have not recorn that were planted the very last of such conditions the clover plant some- ceived a good rain since they were plant-Up to that time we had had a very wet spell. The ground was worked up than it will in our climate after the first nicely with a spring-tooth harrow after this wet spell and the corn planted. Since then it has been well cultivated. An earth mulch has been carefully preserved and we have not had a good rain since. of which plans of handling it would be There has been one or two showers that better than pasturing it, from the stand- simply laid the dust, but we have not had a rain that would soak the ground and wet down the roots. As a matter of fact, one of the little showers we had I thought did more harm than good. It simply wet the surface a little bit and when the sun came out it evaporated, leaving a crust that enabled lots of moisture to evaporate before we could get the cultivators over the field to stop it by breaking up the capillary action. This corn is much thicker this year than I usually plant for ensilage and this is going to prevent me from getting as good a growth as ought to this dry summer. Had I had one or two good soaking rains, I would have had a wonderful crop of ensilage. There is no question about it. As it is, I am going to have a fair one. In the thinner places and more moist places of the field, there will be pretty good-sized ears, but on much of the land that is be ing affected by the drouth, the ears will be exceedingly small, owing to lack of moisture and owing to the t ickness of the corn. However, I believe I am going to have a very good tonnage and I am so pleased with planting the corn thicker that it is not a wise practice. With a

#### Threshing.

The threshing is done again for an- the cutting of silage corn and the filling other year. This is one of the worst jobs of the silo, the question of the wagons on the farm. This is a job that the men upon which this heavy crop is to be hate to do. It is also a job that the wo- hauled from the field to the silo is an men folks hate to have anything to do important one for the farmer to consider. with. The men are dusty and dirty and In the earlier days of handling silage sweaty, especially if it is hot weather, corn various devices were resorted to and it is a disagreeable job, but we are in constructing low-down racks that could through with it. We have had a good be used on the ordinary farm wagon to larvest and we feel good over it. While reduce the labor of drawing, which was we have had no harvest at Lillie Farm- too strenuous where the green, heavy stead this year that is worth bragging corn had to be lifted or pitched onto the about, and as a matter of fact I tell you old-fashioned high racks. But with the nothing about Lillie Farmstead for the development of other farm machinery and measures must be indirect in character, purpose of bragging, but just simply to equipment the low-down farm wagon show what we are trying to do, but we came to the aid of the farmer in this have had a harvest that we have no par- respect, and new is used on every wellticular reasons to complain of. Of course, I have raised more grain this year than I the field to the silo, as well as in the ever did before, but that is accounted for bandling of other heavy and bulky farm from the fact that I have more land. We crops and in the various trucking about have a fairly good crop of oats and oats of materials which must be done upon and peas, and a fairly good crop of wheat. every farm, and for which the low-down While Lillie Farmstead is a dairy farm wagon is a distinct labor-saver. The lowprimarily, with a herd of 52 cows and the down, wide-tired wagon, fitted with a young stock that necessarily go with platform rack is a great convenience on them, yet this year we have raised 1,469 the farm, and would not be dispensed bushels of wheat, 1.771 bushel of oats with on any farm where it is once tried and peas and 800 bushels of wheat. Of Modern invention has provided substicourse, that makes something of a grain tute wheels which may be used in makfarm of it. None of the oats, or oats and ing a low-down wagon out of the ordiness, however, will be sold off the farm, parv farm or road wagon, and low nothing but the wheat, with perhaps some of the oats for seed oats. The rest will types and styles, to suit the needs of the be fed upon the farm and I wish I could individual user. These may be secured at say that we wouldn't have to buy any comparatively small expense from the more feed, but we will. It will cost hun- firms advertising in the Michigan Farmer, dreds of dollars for feed besides what we have grown.

spring and seeded to alfalfa, as I ex- respect. plained before, I sowed the oats at the

I got a splendid catch of alfalfa, Whether oats, I got 61 bushels of oats to the acre it is not necessary to use so much seed for oats. While I never believe in seed-

It has been the best weather for haying that I ever remember of. We got our of our oats and oats and peas we had to stack so that we could put the straw into the Larn, and there was no rain on these stacks, so that the grain is in fine condition. I never saw grain in better condition than ours is this year. It is perfectly dry. The wheat and oats also have a lustre which shows that it was well developed. I had it planned, of course, so that when we got through threshing there would not be a spear of straw out doors, but my plans miscarried just a little. I put so much wheat in one bay of the new barn that we could not get it into the straw part of the barn and part of it had to be blown out of doors. This, however, we can use up easily before the heavy fall rains come, because we will have our hog pens and hen houses all to bed down and we can use some of it in the horse rtables and thus use up the most of it wihtout having to haul it into the barn, and not allow it to be out doors. have a fine lot of straw. The oat and pea straw is in most excellent condition. I never saw it in such good condition before. The cows and horses eat it now almost as good as they usually do in cold weather, which is surprising. I believe that this oat and pea straw is better than the average timothy hay. We put a lot of it in the horse barn, covering up the hay, and our horses have had to eat pea and oat straw for the last several days, and they seem to eat it almost as well as hay, and are apparently doing well, although they are doing the hardest kind of work, plowing on heavy land for fall

Plowing for Wheat.

We now have, August 18, 40 acres plowed fo. fall wheat. We have another 15-acre field to plow and we will get it all done in plenty c time, I think, so that if there comes a rain, we will get a good seed bed before it is time to sow the wheat.

COLON C. LILLIE.

With the approach of the season for equipped farm in the hauling of corn from wagons are also manufactured in various and the man who owns a sile and not a low-down wagon, should lose no time in On one field where I sowed oats last supplementing his farm equipment in this Oakland Co.

A. R. FARMER.





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I am going to put a concrete basement under my hog pen and would like very much to have a cement floor but some of my neighbors say it is bad for the hogs and that they will get rheumatism, and some say not. Will you please inform me through your valuable paper if I had better put in a cement floor or not? The building is 16x26 ft.

Jackson Co. F. A. S. By all means put a concrete floor in the hog house. It is the most satisfactory,

HOUSE.

hog house. It is the most satisfactor weeds depends largely upon checkmost sanitary and most permanent floor weeds depends largely upon checkmost which can be used for the purpose. If and conditions. Briars and bushes can which can be used for the purpose. If and conditions out and reseedhog house. It is the most satisfactory, and permits of keeping the pens clean ing the bare places. Thistles may be and in a sanitary condition. It should be held in check by mowing in July, although made with a slight slope toward the doors of the pens so that the floor of any pen ery effort should be made to prevent can be flushed with water if desired, as them from going to seed. The docks is sometimes essential, as for instance, should be pulled up by the roots when the when it is desired to disinfect the pen in ground is moist and soft. Nettles should case disease has invaded the herd. But A board platform can easily be construct- ing of nettles. ed of sufficient size for a nest, and with the bedding. Some who have tried them ground with a sharp tooth harrow a num-like the elevated sleeping nests, which ber of times and make the conditions consist of a platform elevated about three more favorable for the growth of grasses. feet from the floor to which the hogs It may also be destroyed by the use of a have access by means of a plank chute spray composed of a four per cent solu-In some cases the platforms have been slag are highly recommended for destroy-

and berry bushes get into a field and injure the grasses. Before we plan to eradicate weeds from our pasture lands it is necessary that we make a study of the various weeds and their characteristics and determine which are really "plants out of place." Dandelions are not a weed when found in the pasture, because their medicinal qualities are very beneficial to live stock. On some kinds of soil certain weeds make a better filler than other We have much to learn about weeds. pasture improvement before we can know to a certainty the various kinds of grasses and weeds that are beneficial or detrimental to our animals.

How to eradicate the various kinds of this does not always kill them out. Evbe forked out before they go to seed and the hog should not be compelled to lie the ground seeded with grasses. Sait is on the cement, especially in cold weather, a very effective remedy for the eradicat-

Moss is very common on wet land. The low sides made of scantlings to retain best way to eradicate it is to go over the with cleats or a stairway with easy steps, tion of sulphate of iron. Lime and basic

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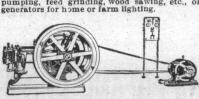
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Brood Mare 27 Years Old, with Her Yearling and Two-Year-Old Colts, Owned by Fred Dickinson, of Eaton County. constructed so they could be used in ei- ing moss. The basic slag should prove ther position as desired for the kind of the best remedy because it possesses a

hogs kept in the pen, being used on the fertilizing value in addition to the lime floor for brood sows and in the elevated that it contains. position for the growing pigs and store hogs. In laying a concrete floor it is a They seed freely and soon overrun a comparatively easy matter to set the field when allowed to secure a foothold. posts for the partitions in the concrete Ragweed is a very troublesome weed to construct permanent concrete troughs. But it would be a mistake in that would be more profitably utilized by building a hog house, or in fact a stable the grasses. It may be kept under fairly of any kind to use any other material for

THE IMPROVEMENT OF PASTURE LANDS.

Good pastures are the basis of successful live stock or dairy farming. Conse- the pasture a thorough renovating withquently it is of the greatest importance out breaking up the sod it will be much to stock breeders and feeders, as well as better than to plow it and spend a number to dairymen that they begin a systematic of years time to get a good turf estabplan of improving their pasture lands so lished before returning it to pasture again. that the greatest profit may be derived from them, not only for the present but in years to come.

Eradicating Noxious Weeds.

to eradicate the noxious weeds that are price to the successful sheepman. By all crowding the grass out above the ground means keep your ewes healthy and vigand robbing the roots under ground, be- orous for upon a healthy, thrifty condisides scattering their seeds broadcast, tion of the ewes depends your success. weeds, besides occupying the ground in place of the grass, are actually injurious to the health of the cattle. but it is with sheep as with all else. Such weeds as thistles, docks, daisies, must give them some attention if you wild carrots and various others that might expect profit. be named should not be ignored. Some varieties of grasses are among the very lowed your ewes to graze on some dry worst weeds. They are not palatable nor wheat pasture, and that is right; but now nutritious and consequently are left by it comes time to feed up your ewes. Your the cattle to seed the whole pasture and lambs have already been on good grass crowd out the more desirable grasses, of course, and should be kept on good Some of the worst grasses spread them- grass until sold but now your ewes need selves by both stems and seed. Fre- good grazing also.
quently a field becomes full of moss and In about a month or six weeks you

Daisies are a nuisance in a pasture. which takes up a lot of valuable room good control by pasturing it with sheep, which are fond of the flower and will prevent it from reseeding itself. Good drainage will help to keep out many of the most troublesome weeds. Some can be destroyed by plowing the pasture and reseeding, but when it is possible to give

CARE OF YOUR EWE FLOCK.

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BINDER Attachment with Corn Harvester cuts and throws in piles on harvester or winequal with a Corn Binder. Sold in every state. Price \$20 with Binder Attachment. S. C. Montgomery, of Texaline, Tex., writes;—"The harvester has proven all you claim for it. With the assistance of one man cut and bound over 100 acres of Corn, Kaffir Corn and Maize last year." Testi monials and catalog free, show, ing picture of harvester. New Process Mig. Co., Salina, Kan,

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IN PREMIUMS

ENTRIES CLOSE SEPT. 2. Premium Lists Mailed on request. EUGENE D. CONGER, Sec., Grand Rapids, Mich. stronger lambs you must start to get entirely of corn ground or soaked withyour ewes fatter.

from their lambs find that if they flush often too costly to be used with economy milk at lambing time.

be in good shape if you expect profits.

and salt as they demand.

earn for you surprising profits.

eat until they are foundered.

get a little change of grazing.

Try the plan of flushing your ewes from now until breeding season, then follow SHEPHERD.

#### TWO FACTORS IN PORK MAKING.

I once knew two pigs from the same litwere slaughtered. The scales revealed a husbandry. difference in these animals of 103 pounds. improvement and there are plenty of people in Iowa who will tell you that that a growing i state has increased the aggregate of her pork-making. corn crop millions of bushels by giving attention to this matter.

Now there is just as much difference in the possibilities of pigs for pork produc-tion as in ears of corn for seed. Many of us are too careless about the breeding in fact, they are not fed nor cared for in or the hardiest constitution. The pig requisite to success.

other item in the business of greater im-portance than that of the sire. The ill-by pastures where hogs died three years who reads this article who cannot better it is a hard matter to persuade the farmafford to load his sows in a wagon, take er that this is correct. them ten miles to a good boar and pay well for the service than to use the questionable sire in his nearest neighbor's immunity against cholera, which can be yard and pay nothing.

cestry behind them the rest of the work such extreme measures as are above adof pork-making will depend entirely upon vocated unnecessary, although very thorthe man. First he must know the im- ough disinfection should, of course, be portance of a balanced ration. The pig given.—Eds. must not be started on a ration that is too carbonaceous. The dairyman is fortunate, for he usually has plenty of skimmilk, which is one of the best parts of and place to be held of any picnics or any ration for a growing pig. It is rich farmers' gatherings of any kind, if those in protein and while we have it in plen- interested will let us know.

the sake of a larger crop of twins and tiful supply the grain ration may consist out any danger whatever. With the pigs Men who every season make money middlings are excellent feed but they are the ewe flock each fall—that is, feed them in any considerable quantity. The pigs better for several weeks before going to should be given what feed they will clean the buck—there are more twins and more up readily, but no more. But our hogman must give close attention to details. Many of your troubles with weak lambs He will weigh the feed often enough to and empty udders would be avoided if make him a very accurate guesser, for your ewes were fatter when brought in in this way only will he be able to tell for winter. No one objects to over fat where he is at from week to week. He ewes more than I, but the ewe flock must will look after the comfort of the pigs also for this will mean dollars to him in Be ready, then, to turn your ewes over the end. He will separate the smaller onto fresh fields and better pastures, turn ones if necessary, or provide some way them into weedy corn fields, watching by which they can get their full share of that they don't learn to pick off too many the feed. He will read plenty of literacorn ears-or orchards with clean water ture in the line of his business. He will know his neighbors' hogs, too, and if any Good grazing from now until winter of them are doing better than his he will will decide for you between profit or not be foolishly sensitive or jealous over loss; and give them such a good start it, but will try instead to discover the that, with bright straw, hay and some reason why and reform his own methods. roots or silage, and after lambing, a taste New conditions are constantly appearing of oats, bran and corn chops-they will that affect the problem of feeding. The careful feeder will study all the different When first hungry in the morning turn grains with reference to their food value them in around your lanes and buildings, and their price in the market. He will where they will eat down the weeds. See that they have plenty of clean water and then give the animals plenty of it at and their price in the market. He will salt, and that they can't get their heads regular intervals every day until they are through any holes in the grain bins and ready to slaughter. Above all, the successful hog man will keep his eye on the Thus they will clean up the weeds and market. It is quite possible to lose 20 per et a little change of grazing. selling them at the wrong time. Of course, we are all liable to mistakes of with good pasture, and you will see from this kind, but a proper amount of care results that that plan makes most profits. and attention to the market and the probabilities of the future will generally yield a richer return than any other sort of energy we may invest in the business. The successful man will be devoted to The two most important factors in pork his work. He will have an ideal and it production are the hog and the man. If will constantly move along an upward these are right there is not much risk to way. He need not live and eat and sleep take in the business. The number of with his hogs, but now and then his pounds of pork that can be produced from friends will suspect him of having hog on a given number of pounds of feed depends the brain. The world honors the man in part upon the individuality of the hog. who is devoted to his business and the constant improvement witnessed everyter to eat from the same trough for eight where in Michigan hogs evidences a growmonths and eight days, after which they ing interest in this branch of live stock

Finally, it may be doubted if there is Prof. Holden is laying great stress upon any animal on the farm today that will the individual ear in the work of corn yield a larger profit to its owner than the hog and this fact would seem to justify growing interest in the business of

W. F. TAYLOR. Oceana Co.

#### CHOLERA INFECTED PREMISES.

Living in a section where hog cholera has been prevailing with considerable of our hogs. The sows are chosen with loss, I have this to say as to the time too little attention to the matter of form when it will be safe to bring hogs that when it will be safe to bring hogs that have not been exposed to the disease on the way to produce either the best form premises that have been thus infected. There is a wide difference of opinion designed for a brood sow should be nei- among hog raisers as to how soon hogs ther over-fed nor closely confined, but can be safely brought into quarters or on she should have enough bulky food to pastures where hogs have died with keep her in thrifty condition, should be cholera, and while it has been proven that given plenty of drink and abundant op-by disinfection, premises thus contamiportunity for exercise. In the beginning nated can be brought into use again withshe should have been chosen from a large in a very short time without danger, just litter and it would augur well for her fu- what constitutes thorough disinfection is ture if she were the thriftiest pig in the a point on which some disagree. From bunch. It is not necessary that she be my experience not less than one year pure-bred. A cross with any of the best should elapse and all pastures that have breeds, of similar type, is good enough, been infected by cholera-infested hogs but she should be a good pig from a should be plowed and cultivated before numerous litter and her owner should fresh hogs are allowed to be brought on have sufficient interest in her to insure the premises. All pens, yards and houses that care and attention to details that are where any of the sick hogs have run should be torn down and new ones erect-The sire should be a good individual and ed, even though they be only temporary, should be pure-breed. There is not an- too much care cannot be taken as hogs formed males of indifferent breeding and previous. Where it is possible to do so the fairly good individuals with no pedi- I think it best to devote the farm and gree that are often used as sires should surroundings where hogs have died with all be branded as failures and sent to the cholera to some other line of live stock slaughter house just as soon as their con- for a period of four or five years, but in dition will permit. There is not a man sections where hogs are grown extensively

Illinois. L. G. JOHNSON. The new serum treatment for securing secured through the experiment stations Given a bunch of pigs with a good an- or the Department of Agriculture, makes

ANY PICNICS? We will be glad to publish the dates



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Parsons Oxford Rams popula big, dark faced rams will produce bigger and better lambs. Grade X \$15.00 XX \$20.00 XXX \$25.00 ROMEYN C. PARSONS, Grand Ledge, Michigan

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24 PURE BRED SHROPSHIRE RAMS for sale 12 lambs and 12 yearlings. Extra fine stock from Imported rams. The low down, blocky kind, well wooled. Must be sold by September 1st. Address, L. R. SLOTE, Constantine, Michigans.

SHROPSHIRE HALL STOCK FARM Ill import one hundred yearling ewes and 15 ram June for Michigan and the same for Boise, Idaho anch of this farm. Will make a fair price on year ag ewes or rams, also on some aged ewes with lamb ide, for 60 days. L. S. DUNHAM & SONS, Concord, Michigan.

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### LARGE ENGLISH BERKSHIRES

Have fine lot of spring pigs of both sexes. Few young sows for fall farrow. Vigorous and strong, the type for profitable pork production. Satisfaction guaranteed. F. A. BYWATER, Memphis, Michigan.

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NORTHERN GROWN BERKSHIRES for sale cheap—Yearling sow with litter about ready to wean; three boars ready for service, at about pork prices; boar pigs, for winter service, Need more room for fall litters. Need more room for fall litters, For catalog and prices address ROYCROFT FARM, Sidnaw. Michigan.

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Chester Whites and Guernsey Cattle, change of buisness and everything for sale before Sept. 25th. WILL W. FISHER, Watervliet, Michigan.

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Choice Pigs of March and April farrow either sex. W. O. WILSON, Okemos, Mich. (Both Phones. O.I. C. Hogs all ages. Sows bred. and more. H. H. JUMP, Munith, Michigan.

0. I. C.-For Sale a few choice pigs of March and C. April farrow in pairs not akin. Satisfaction guaranteed. A. Newman, Marlette, Mich., R. F. D. L.

O. I. C. REGISTERED PIGS, 10 to 12 weeks wood Stock Farm. Zeeland, Michigan. Phone 94.

O. I. C. REGISTERED PIGS March and April litters. Pairs not akin. HENRY RIGTERINK, Hamilton, Michigan.

O. I. C. SPRING PIGS and a few BRED SOWS at reasonable prices, C. J. THOMPSON, Rockford, Michigan.

RECORDED MULE FOOTED HOGS are said to be immune from hog cholera. Stock of all ages for sale. John H. Dunlap, Williamsport, Ohio.

# SPRING PIGS

either sex, with size, bone and quality. Bargains on early fall weaned pigs. I ship c. o. d. and furnish pedigree promptly. Write for prices.

WM. WAFFLE, Coldwater, Michigan. THE FARMER'S HOG—BUTLER'S BIG Get big grow fast, keep easy. A bigger, better and more prolific Poland-China. Pairs and trios not akin from three big western boars and big sows. 100 on hand. J. C. BUTLER, Portland, Mich. Bell phone.

Large Type Poland-Chinas Largest in Mich. Pigs from 150 to 160 lbs. at 4½ months old. Will deliver what I advertise. W. E. Livingston, Parma, Michigan.

POLAND-CHINAS—Fine lot spring pigs now ready to WOOD & SONS, Saline, Michigan.

POLAND CHINAS—Spring pigs either sex for se E. D. BISHOP, Route 38, Lake Odessa, Michig POLAND-CHINAS—Sows bred for Sept. farrow Boars ready for service; spring pigs, either sex Write L.W. Barnes & son, Byron, Shiawassee Co., Mich

P. C. PIGS Singly or in pairs not akin.
Minorca eggs \$1.50 per 15.
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Poland-Chinas Boars, Gilts and Pigs price. B. M. WING & SON, Sheridan, Michigan.

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For Sale--500 Fine Yorkshire Weaned Pigs each \$5.00. BROWN'S PIG FARM, Grand Rapids, Michigan.

Large Improved English Yorkshires. The hogs that make good. September gilts bred to farrow next August or September. Spring pigs of either sex. Pairs not akin. Satisfaction guaranteed. COLON C. LILLIE, Coopersville, Michigan.





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CONDUCTED BY COLON C. LILLIE.

ENCOURAGES THE MAKING OF DAIRY BUTTER.

Whatever the reasons may be for making butter upon the farm, I am firmly convinced that if dairy butter is properly made and marketed it will command a good price. The following suggestions it is hoped will prove of value to those who are looking for big prices for dairy butter:

In the first place, only good butter can command good prices. To get such butter requires the strictest attention to cleanliness in milking, handling the milk and cream and in making the butter. Churn often. No fewer than three churnings a week should be made where high quality is sought. Sour the cream at a temperature as near 70 degrees as possible. The last stages of ripening may be finished at close to the churning temperature. The use of a fine flavored "starter" will improve the flavor of the butter. "Starters" are pure cultures of lactic acid bacteria (souring germs) which give butter its desirable aroma. Commercial starter is best and this will cost only about 75 cents per month. Full derections for use are furnished free by the manufacturer if requested.

Care must be taken not to get the cream too sour for churning. The bulk of dairy butter during the summer is damaged by oversouring the cream. Where the best butter is to be made a test is necessary to determine when cream is sour enough to churn. Very simple and cheap tests are available for this purpose. Five to six tenths of one per cent is the best acidity for churning.

Always strain the cream into the churn to remove any particles of curd or dried cream. One thickness of cheese cloth is best for this purpose. Color the butter to suit your market. A cream testing between 25 and 30 per cent fat churns best. Remember that the best and quickest churning is obtained when the churn is about one-third full.

With all the foregoing conditions right, the next thing is to get the right churning temperature. This varies considerably, ranging from 45 to 65 degrees F., with an average temperature of about 55 degrees F. The best rule to follow is to in the field after it is cut. have the temperature such that the cream will churn in from 30 to 45 minutes.

Be careful not to churn the butter into a lump. Stop the churning when the granules are about half the size of a pea. When larger than this it is more difficult to remove the buttermilk and distribute the salt. When smaller, some of the fine grains are liable to pass out with the buttermilk.

Do not wash the butter too much; it will remove some of the fine, delicate tla-One washing in which as much water is used as there was cream is usually sufficient.

Salt at the rate of about one ounce per pound of butter. The buttermaker, however, must cater to market demands with regard to the amount of salt as he does with regard to color. It is needless to say that nothing but the best grades of salt should be used in butter.

a ladle in the churn. For larger amounts it is best to use a small table worker which can be purchased for a few dollars. It is safer for the average butter-maker to work the butter twice. The first time it is worked very moderately. It is then allowed to stand six to eight hours after which white streaks are usually notice. able on cutting the butter with a string. The second working should cease as soon on the wire, with a wire hook at one end, as the butter assumes a uniform color, will hold the cow's tail so that she will By following this rule butter will never be overworked nor will it ever show mot- from force of habit, when the fly blanket tles (uneven color).

wrapped in parchment paper are the most popular. The prints are made with a dairyman's monogram cut into it. The imprint of the monogram in the butter serves as a guarantee of its genuineness. It is also desirable to have some neat let-Spring Dairy Butter," etc. Prints must be kept cold to preserve their attractive appearance.

greatest trouble is finding a suitable market for his product. It is customary with

most of these producers to sell their butter to their country grocer, who, as a rule, makes little discrimination in the quality of the butter, the good and the poor selling for practically the same price. No producer of good butter can afford to market it in the country stores. Those who have made farm buttermaking a success have invariably catered to private trade. Seek private customers who are willing to pay well for a good product. By selling direct to the consumer you save not only the middleman's profit, but the consumer is likely to pay you a premium for your butter which he would not pay to the middleman. He knows the butter is fresher when it comes from you direct.

There is a constantly increasing tendency for city consumers to prefer getting their perishable products like butter and eggs direct from the producer.

JOHN MICHELS. Wisconsin.

#### HOW FAR TO SET THE SILO FROM THE BARN.

I come to you again for some needed advice. I ordered a silo and I expect it will reach here soon. I shall erect it north of the barn so the doors of the silo will be right in line with the feed alley of the cow stable. How near to the barn should the silo be built so as to be handy and convenient? Is there danger of silage not keeping well when put in silo too dry, that is, cutting the corn some time before that is, cutting the corn some time before it is put in silo?

Leelanau Co. R. P.

Many people make a mistake and get their silo too close to the barn. I made this mistake on my first silo. My last silo I put off from the barn so that the bottom of the chute is about six feet. The silo really stands closer to the barn than this, but we made the chute at an angle to the barn so that it clears the barn six feet. This gives room enough so that we can back the ensilage car in out of the way. This compartment is about seven feet high. From the top up the chute is only large enough so that a man can readily climb up on the inside of it. If you get your silo too close to the barn, then you have no room to throw down your ensilage and handle it properly. Better put it off six feet from the barn, and make the lower portion of your chute roomy. This will hold ensilage enough so that it will be convenient to handle it. This little house will also be very handy for storing your ensilage car when not in use. Corn should contain sufficient moisture to pack well in the silo. It is better not to allow the corn to remain too long

COLON C. LILLIE.

#### PROTECT THE COWS.

The individual who milks cows during fly time in a crowded, poorly ventilated barn has my sympathy, because I have been there and know that there is no picnic pleasure in such company and surroundings. Don't kick and scold the cows whe nthey firght the fly nuisance with both ends and their feet, but get busy and make them as comfortable as possible before taking a place in the line with the milk pail in hand.

Spray the inside of the stable, and the cows, with some dependable preparation in solution with water. There are several of these on the market. The sheep dips are quite as good to drive the fly pests from the barn when they are used with a spray pump. Any hand sprayer When only a small amount of butter such as are used to spray potatoes will is made, the butter may be worked with answer the purpose. Directions on preparations will give the proper proportion of

> Each milker should be provided with a light cotton or burlap blanket with which the cow can be protected.

A wire stretched across the barn behind the cows for a lantern is usually in evidence on well-managed farms. string attached to this which will slide not keep switching the milker in the fact, is over her back. A piece of old hay rope For fancy trade, one-pound prints six or eight feet long, with the ends knotted together to make a loop of it, will keep the cow from switching her small hand printer which should have the provided it is placed over the hips of the animal and allowed to extend down over the tail to the udder. I have fastened a piece of binding twine in the switch of the cow's tail and at milking time tied tering on the parchment paper, such, for her tail to one leg of the cow. The felexample, as "Fancy Dairy Butter," "Cold low who tied the cow's tail to his own leg while milking discovered his mistake after the animal had pulled him through two or three wire fences and out into the With the small butter producer, the pasture. These little items will be greatly appreciated by the cows and their milkers.

W. H. UNDERWOOD. Illinois.

# One Fact **Beats 40 Claims**

Remember that one proven fact beats forty groundless claims.

It is to be expected that makers and agents of disk-filled or other common, complicated cream separators will claim that disks or other contraptions are necessary in a modern machine. They have only complicated machines to sell and want you to believe they are modern. Though forty such makers and agents make that claim, you can't believe it in the face of one proven fact which makes all such claims groundless. And that fact is that

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WET VS. DRY MASH IN WINTER FEEDING.

In an article last winter I agreed to give the results from my flock of hens way, is certainly a well paying business, fed on dry mash, as against the previous as there is less competition in raising

Dec. 1, 1909-July 1, 1910, the results for dry mash, period on the right:

Eage	Gathered.

Eggs Ga	
No. pullets, 221.  Dec. '081,351  Jan., '092,140  Feb., '091,542  Mar., '091,991  April, '092,406  May, '092,356  June, '092,010	No. pullets, 190. Dec., '09 1,232 Jan., '10 1,653 Feb., '10 1,517 Mar., '10 1,851 April, '10 1,865 May, '10 1,799 June, '10 1,564
Total13,796 Av. per month.1,970	Total11,481 Av. per month 1,640
Selling	Value.
Dec., '08 \$46.32 Jan., '09 61.93 Feb., '09 38.74 Mar. '09 39.34 Apr., '09 50.57 May, '09 47.49 June, '09 42.39	Dec., '09 \$49.17 Jan., '10 47.71 Feb., '10 36.89 Mar., '10 43.00 April, '10 37.29 May, '10 35.30 June, '10 33.06
Total\$326.78	Total\$273.42
Feed	Cost.
Dec., '08 \$30.73 Jan., '09 30.27 Feb., '09 25.75 Mar., '09 23.95 Apr., '09 21.90 May, '09 29.70 June, '09 38.66	Dec., '09 \$25.26 Jan., '10 27.21 Feb., '10 26.82 Mar., '10 23.69 Apr., '10 23.65 May, '10 30.69 June, '10 24.78
Total \$200.96	Total\$182.10 it will be seen that onth on the average
the reed cost per	70, and the monthly

feed cost per hen was 13c for the seven months. For 1909-'10 the average monthly feed bill was \$26.01 and the feed cost per hen was 13.6c.

For 1909-'10 the average egg production honey becomes known, and its superior was 1,640 a month, or 8.6 eggs per hen. Of course this egg record looks small, but sumer, it will easily command the advanced by that it covers the hatching vanced price.

period, when 50 or more were either sitparatively the same number were set selling part of his output direct to the each year, and the same number of chicks consumer and part to local margination. fed, the comparison for the two years is as accurate as one could get without following out all details as the experiment stations do

of the flocks, and the loss was about the same each year.

The results seem to indicate very little advantage of one mash over the other so far as production, cost of feed and profit are concerned, so about all that is saved is the labor of mixing the moist mash, which, of course, is considerable. Another thing I like about the dry mash is that it gives the hens something to pick at and keeps them out of mischief, whereas the moist mash is gobbled up at They will pick away at the dry once. mash when they would not scratch in deep litter after they had filled up on moist mash.

I shall continue the use of the dry mash for the regular feed, but I think a moist mash occasionally, as a relish, would perhaps stimulate egg production a little. Maine. D. J. RYTHER.

#### FINDS "CRACKNELS" a FAIR SUB-STITUTE FOR MEAT.

Regarding the feeding of "cracknels" like the scraps, it must be used sparingly.

championing its use a few days ago when a lady present declared that she never had good results from feeding it as she thought it was inclined to be too loosenconnection with the mixed feed and there I make cottage cheese occasionally for a boring the germs of disease.

change, using the whey in mixing the This has a tendency to obviate the trouble complained of.

J. M. W. Oceana Co. WORKING INTO BEE-KEEPING.

Bee-keeping, for those inclined that winter's work on moist mash as the bees and producing honey than in any morning feed.

other side line of farming. Last spring The periods covered by the figures given I installed 12 stands of bees in my orbelow are Dec. 1, 1908-July 1, 1909, and chard and hope to become a successful raiser of these industrious little workers. the former, or wet mash, period appearing I recently made a visit to another part of on the left and those for the latter, or the county to see a professional beekeeper and his bees, and to get whatever advice from him he would be willing to

give. I found him a pleasant and agreeable gentleman, willing to divide his knowledge and experience with anyone. This is about what he told me:

Any good, honest, bee-keeper can build up a market and hold it for his own if he will take pains to convince his customers that he sells nothing but pure clean hon-ey, nicely put up. When this has been accomplished they are not likely to change to someone else even though a lower price is quoted. It is best to have one price and stick to that price throughout the season. However, there are slipshod members of all professions, and bee-keeping is no exception to this rule. These slipshod bee-keepers will bring in their poor grade of honey, untastily put up, the sections quite often broken, the honey smeared over them and sometimes travel-stained. They will offer such honey at lower prices than the careful bee-keeper can afford to sell for, but this makes little difference with the regular customer, for the discriminating consumer is not so easily fooled, and he will purchase from the man who offers good, clean, pure honey. Education along this line is gradually driving the slipshod honey producer out of the country, but should this kind of competition be met it is unwise to lower the price of good honey to The average monthly egg production meet the price of the inferior product, for 1908-'09 was 1,970, or 8.9 eggs per hen. for as soon as the careful bee-keeper's quality has been recognized by the con-

ting, or caring for chicks, but as com- trade, and this he divides into two parts, He so handles it that the one does not interfere with the other. When selling to the merchant for cash he gives a discount sufficient to allow the merchant to I could note no difference in the health retail to the consumer at the bee-keeper's retail price. If payment is taken in goods, the retail price is expected.

In order to become a successful beekeeper it is necssary to acquaint yourself with the different families of bees and requirements. This man raises buckwheat and red clover for his bees, and while they gather the nectar from those blossoms they also gather considerable honey from other blossoms, such as the alder, apple and hollyhock, also from various wild flowers growing in the meadows and fields. In selecting bees I chose the Italians as they are considered the gentlest and easiest handled, and are equal, if not superior, to other kinds for honey making.

L. G. Johnson. Illinois.

FOR THE SUPPRESSION OF FOUL BROOD.

The State Dairy and Food Department last month issued a little circular, addressed to the bee-keepers of Michigan, or scraps left from rendering lard, I would a rting its readiness to co-operate with say that I feed one ration a day of mash bee-keepers in suppressing the disease or mixed feed, consisting of wheat bran, known as foul brood. Any citizen, wheth-middlings and some kind of grain—crack- er directly interested in bee-keeping or ed corn, wheat or buckwheat. When the not, who has knowledge of the existence lard scraps are used they are chopped fine of this disease in a Michigan apiary, is and mixed with other ingredients of this requested to notify the Department as ration. However, they are used sparingly, promptly as possible. Where uncertainty as too large an allowance is worse than exists, samples of the suspected comb none. They take the place of meat very may be sent to the entomologist at M. A. nicely, but when neither meat nor scraps C., or to the Bureau of Entomology at can be obtained I have added a few Washington for examination. The respoonfuls of melted lard to the mash, but sponsibility for holding this disease in check was imposed upon the Dairy and Food Department by the legislature of If think the next best substitute for 1901, the law providing for the appointmeat is sour milk. I was enthusiastically ment of an inspector of apiaries. Such inspector is required to visit any and all apiaries in which foul brood is believed to exist and to give the owners or caretakers full instructions for treating infected ing. However, I have used it for years in colonies. If a second visit shows no improvement in conditions he may burn all is nothing the fowls seem more eager for. colonies of bees and combs which are har-

# Silence!



The instinct of modesty natural to every woman is often a great hindrance to the cure of womanly diseases. Women shrink from the personal questions of the local physician which seem in delicate. The thought of examination is abhorrent to them, and so they endure in silence a condition of disease which surely progresses from bad to worse.

It has been Dr.

es from bad to wors

It has been Dr.
Pierce's privilege
to cure a great
many women who
have found a refuge for modesty in
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# It makes Weak Women Strong, Sick Women well.

You can't afford to accept a SECRET nostrum as a substitute for this non-alcoholic medicine OF KNOWN COMPOSITION.

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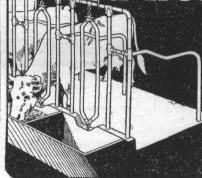
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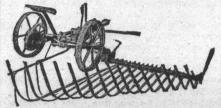
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REMEMBER THIS

The Side Delivery Buncher is guaranteed to save its cost every day it is used either in cutting clover and alfalfa for seed or for hay, or for harvesting peas, vetch, flax, etc. These machines have been on the market for 8 years and 52,086 have been sold.

THE THORNBURGH MFG. CO., Bowling Green, Ohio.

SOD MULCH VS. CULTIVATION FOR APPLE TREES.

The young apple trees on the hillsides which are mulched with strawy manure harm, are making a good growth this season and the foliage appears quite vigorous and green. While they are not quite as large as those growing on cultivated ground set at the same time, two and four years ago. I believe they are holding their own this season and with good care in the way of supplying plenty of mulch they may be as far along as the cultivated trees soon.

nests and grasshoppers, which is some advantage, and it seems likely that picking, there would be fewer places for the cod- one-half ling moth to winter where the ground is kept cultivated. There is, however, more danger of injuring the trunks of the trees or breaking branches in cultivating the must take things as they are, not as they ground, as help is often careless about ought to be. There is one thing about this, and a few injuries each year will make a great many after awhile.

As for the labor required to grow a young orchard by each method there is no great difference between a thorough system of mulching and the cultivation-cover crop method, though I think the difference is in favor of the mulch. Circumstances will make much difference with this also, as in some places it would be impossible or too expensive to get mulch enough for a large orchard. Where there is straw to spare, marshes that can be mowed for the purpose, or strawy manure that can be procured nearby the cost will be less than clean culture, but where mulch materials are expensive the reverse might be the case.

As for the soil it would seem that with the mulch method it would become richer continually, as nothing is being taken off, and mulching is being hauled on each As this mulch spreads outward more and more of the ground receives a coat of vegetable mould, which should bring it in a good state of fertility by the time the tree reaches a bearing age. If the grass which is mown is left on the ground this makes a partial mulch, but think better results will be obtained if in addition to this other, mulch is applied. In fact, we have used the grass for hay for a few years and hauled in coarse manure, believing this to be cheaper. S. B. HARTMAN.

Calhoun Co. TIMELY TOPICS FOR THE GARDEN.

The Cabbage Worm.

There are many remedies more or less effective; but sometimes it seems that in spite of all efforts against them they follows: keep right on as though nothing had happened. One of the best of the simple remedies and very easy of application is good wood ashes and salt; two parts of the former to one of the latter. I prefer the best quality of table salt to the coarser kinds, and if applied in the early morning while the plants are still damp it will generally terminate their engagement. However, rains will wash off the application, and reinforcements may be expected at any time so constant watching is nec-Both the salt and ashes are excellent fertilizers and the former is especially helpful in heading and hardening up of the heads. The salt will often discolor the leaves, even to turning them black where too much of it adheres, but it will do very little, if any, harm and so frequent applications are recommended. Tobacco dust is also a good remedy, both as a fertilizer and insecticide but is not easily obtained except of the seedsmen or at the tobacco factories. Some writers of very considerable reputation have strongly advocated the employing of boys with nets to capture and destroy the Our judgment of this plan, however, is, that an active boy chasing through the patch with his net, intent upon capturing the miller would knock more plants than the worms would de-

Many have objections to using the arsenical poisons, but we believe when judiciously used no possible harm can come, either from Paris green or arsenate of lead. The former may be used either as a dry or spray mixture. In using the dust application, a convenient plan is to use a rounding teaspoonful of the Paris green to a quart of rye or wheat flour. Mix thoroughly and put it into a tarleton bag, It should be applied in the early, still morning while the dew is on, by shaking lightly over the plants. If used umbus, O. Thursday afternoon.—Committee reports. Election of officers. "Points on Greenhouse Construction," E. A. Dunbar, Ashtabula, O.; "Celery Culture," R. H. Garrahan, Kingston, Pa.; "Recent Investigation in Pollenization of Tomatoes," Prof. O. I. Gregg, M. A. C.; "Methods of Operating Eastern Market Garden," Prof. H. F. Thompson, Attleboro Mass

as a spray mixture, a weak solution say, one pound to the hundred gallons of watwill be strong enough. Arsenate of lead will only require about half the strength for potatoes. The smooth, glassy surface of the cabbage leaf does not readily hold spray mixtures of any kind but this can be remedied by using soapy water. Even quite strong suds will do no

Wayne Co.

#### CUCUMBER GROWING.

I promised Michigan Farmer readers to keep them in touch wth our success at growing cucumbers. If the weather keeps as dry as it has been since they reached bearing age there will not be much to I have noticed that the trees on cultell. We have picked over the patch tivated ground were troubled less with every second or third day since August 1, getting from two to three bushels to a The picking costs just about one-half of the receipts, so it will be seen that we are not getting much for the care and marketing as yet. rain the results might be different, but we must take things as they are, not as they the cucumber crop that is a redeeming feature and that is that the receipts come in as the crop is harvested and if it does not pay the cost of harvesting we can quit and not have much labor tied up in the crop, while with a crop like potatoes we may pay a good price for the seed, grow them with care, harvest them, store them for the winter and then sell for less than the seed cost as was the case last year. At least there is no chance to do so much speculating with cucumbers, which is probably an advantage for us farmers who don't knew how to speculate. Calhoun Co.

#### GREENHOUSE MEN AT GRAND RAPIDS.

The third annual convention of the Greenhouse Vegetable Growers' and Market Gardeners' Association of America will be held in Grand Rapids Sept. 27.29. This is one of the most important conventions of the year to be held in Michigan and will attract hundreds of glass farmers and market gardeners from many different states.

Grand Raapids is an interesting place to visit, having more than a million dollars invested in glass farming. There are 60 greenhouse plants in and near the city, 37 of which are devoted exclusively to vegetables, 14 exclusively to flowers, and in the remainder both flowers and vegetables are grown. Grand Rapids growers have more than 50 acres under glass and over 300 additional acres under cultiva-

The full program as arranged will be as

Sept. 27, 9:00 a. m.—Opening by Pres. C. W. Waid, New Castle, O.; address of welcome, Mayor Ellis; response, Prof. W. R. Lazenby, Columbus, O.; president's address and reports of officers; "Results of Local Organization," Floyd J. Zuck,

Erie, Pa.

Tuesday Afternoon.—"Use of Greenhouse to Start Plants for Otudoor Crops."
W. J. Ritterskamp. Princeton, Ind.; "Outdoor Irrigation—when Practicable," H. F. Chester, Cleveland, O.; "Relation of Commercial to Small Grower," W. H. Weinschenk, New Castle, Pa.; "Pointers on Onion Growing," Prof. A. McMeans, N. Dakota Agricultural College; "Treatment of Greenhouse Soils for Continuous Cropping," Prof. W. J. Green, Wooster, O.; "Kind of Seeds Market Gardners Should Grow for Own Use," J. Vernon Sheap, Jackson, Mich.

Tuesday Evening.—"Some Diseases of

Sheap, Jackson, Mich.

Tuesday Evening.—"Some Diseases of Forcing Tomatoes," Prof. Thos. Gunson, M. A. C.; "Notable Truck Farms and Market Gardens," Prof. R. L. Watts, state college, Pa.; "Work of Virginia Truck Experiment Station," Prof. T. C. Johnson, Norfolk, Va.

Sept. 28, 9:00 a. m.—"Large or Small Package, which?" J. N. Draper, Springfield, Mo.; "Are Transportation Rates Just?" J. H. Rice, Ashtabula, O.; "Selling to Consumer Direct," A. Shirer, Dayton, O.; "Selling to Retailer," L. B. Pierce, Tallmadge, O.; "Selling to Commission Men," R. F. Dilger, Chicago.

Wednesday afternoon.—Given to visit-

en," R. F. Dilger, Chicago. Wednesday afternoon.—Given to

Wednesday afternoon.—Given to visiting places of interest in and around Grand Rapids.

Wednesday evening.—Annual Banquet.
Thursday morning.—'Heating and Watering in Winter in Greenhouses," B. H. Thorne, Wooster, O.; "Different Methods of Firing Greenhouse Boilers," C. D. LeVan, Sanborn, N. Y.; "Muskmelon Culture," J. S. Brigham, Bowling Green, O.; "How Can Early Outdoor Tomatoes be made Profitable?" Prof. W. F. Massey, Salisbury, Md.; "Market Gardening in Columbus," Prof. Wendell Paddock, Celumbus, O.
Thursday afternoon.—Committee re-



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13 No lottery, quack doctor or swindling advertisements inserted at any price.
Entered as second class matter at the Detroit, Michigan, postoffice.

The state of the s

educational and entertainment features ricultural interests has taken place in ton in the early part of September, promtirown in which make attendance a France. The principal aim of the agriculises to be the greatest yet held on this side of the Atlantic. Dirigible balloons far too many farmers fail to appreciate farmer to purchase or dispose of his supther. the profit which may be derived, from an plies as advantageously as his more im-educational standpoint, through attending portant competitors and to encourage a the big agricultural fairs. Such a fair is an encyclopedia of information in the form betterment of the rural population, such of results. Results are what we are lab- as the establishment of insurance or oring for, so let us go to the big agricultural fairs which remesent the best types of production, primarily to study the results which our most successful producers are getting. Incidentally we will get sufficient entertainment to repay us from this standpoint alone, but we cannot afford to miss our great trade expositions in which every department of our business is represented and which afford us such interesting and profitable object lesses to the small commission, never exceeding three per cent, they sell, because the products and supplies of their members. The influence, scope and importance of these societies and will be taken into custory as soon as have extended rapidly since their inception and they have been an important factor in the present prosperous condition of French agriculture. The French government has contributed largely to this prospersions of the Illinois Several former officials of the Illinois Several oring for, so let us go to the big agriculin which every department of our busi- French agriculture. The French govern-ness is represented and which afford us ment has contributed largely to this prossuch interesting and profitable object lessons of an industrial character.

The interest which Materials for Road is being taken in the building of perma-nent roads in many Building. sections of Michigan makes any facts relating to the relative value of different materials of particular interest to all who are personally interested in the problem of building permanent roads. Most of the permanent roads which have been built under the Michigan state reward road law have either been made of gravel

number of social movements toward the credit societies. For a small commission, perous condition through services rendered by the Department of Agriculture, by education, by experiment, etc., and by the loan of considerable sums at a low rate of interest to agriculturists. Up to the present time some \$66,106,000 has been loaned to 125,000 farmers.

#### HAPPENINGS OF THE WEEK.

#### Foreign.

Foreign.

Official information indicates the closing of the revolutionary conflict in Nicaragua with Estrada and his forces victorious. On the 18th his troops affected a crossing of the Tipitapa river which commands the city of Managua. About the same time Granada the most important place on the Pacific coast was taken by his soldiers. This caused a general stampede in the ranks of Dr. Madriz and a rapid retreat to the border is now in progress. The United States was favorable to the victorious party since the Madriz element was pitted against American interests.

The movement of freight over the great lakes for the first six months of the year is larger than for any previous six months, aggregating 30,448,063 tons. Iron ore and soft coal lead in the increase while lumber and grain fall short of other records.

24 persons are reported dead and many others injured in attempting to save lives and property. It is estimated that the loss in that city amounts to around a million dollars. Other sections are suffering, and the fears of settlers will only be abated after general rains. Students of the forestry department of the Michigan Agricultural College have been sent to this region to aid in fighting fires, and much apprehension is expressed lest they be among the victims.

The fifth annual gathering of the dryfarming congress will be held at Spokane, Washington, October 3-6, 1910. A comprehensive program in charge of noted dryfarming specialists is awaiting those who attend.

#### CROP AND MARKET NOTES.

# FARMERS' CLUBS

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

Associational Motto.-

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

Associational Sentiment.-

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

#### THE NEW DAY.

Toast responded to by A. R. Palmer, at the Home Coming meeting of Columbia Club, of Jackson county.

The new day is here and we do not half appreciate it. To be living in these times is a wonderful privilege. Some men have

smaller than townships once were.

Machinery has made labor much easier. Few of the old muscle straining tasks remain to be done in the old way. In the home, fireless cookers and gas stoves give little occasion for talk about working over a hot stove. Butter is made in factories and the washing may soon be done in laundries

Our lights are wonderful in their brilliancy compared with that which Abraham Lincoln studied by. We stand or sit in our home and talk with our neighbors ten miles away. We read each morning the happenings of the night before all over our land, and even on the other side of the earth. For a single cent we can send a paper with a marked message to a friend in Maine or California. Books, papers and magazines are plenty and cheap that we cannot read the half of papers and magazines are what we have. Able speakers, teachers and lecture courses abound. Our schools teach us how to read and how to work also. Our problems are being studied for farming community. In response W. F. us; scientists are bringing to our aid the Raven, of Lansing, spoke of the harmony that had always prevailed and that not only had it made better farmers but it had can be oduced more chaply or that the company of the benefit the Club had been to the farming community. In response W. F. Haven, of Lansing, spoke of the harmony that had always prevailed and that not only had it made better farmers but it had made better neighbors and life-long friendships had been established.

Club members and a number of invited

guests assembled on the spacious lawn and were entertained by selections on Mrs. Derr's phonograph. The program, which was in charge of the young people, was listened to with much interest and reflected credit upon those in charge.

reflected credit upon those in charge.

After the opening exercises the usual routine business was taken up. Mrs. Matthews thanked the Club for flowers sent her during her illness.

President Theron Kentfield had charge of the young people's part of the program, which consisted of recitations, music and papers, which were very well rendered and were much enjoyed. Miss Buckley's paper on "A Girl's Life in the West," gave a very good description of western life. Mr. Schaffer's paper, entitled "My First Year in High School," was well written and contained several amusing incidents of freshman life in high school. Lloyd Matthews gave some ideas against the practice of Sunday base ball. The Club extend thanks to the young people for the very creditable manner in which they entertained them. The September meeting will be a picnic supper at McCurdy park.

Hold Home-Coming Meeting.—Marion

appreciate it. To be living in these times is a wonderful privilege. Some men have even said that their greatest reason for destring to continue to live was that they might see the progress that the world makes. It is worth while to pause a little and pass in review some of the things that make this new day a wonderful day, that by calling them to mind we may the better appreciate our blessings.

To begin with, when we come into the world our chance of living is nearly doubled. Infant mortality is very much lessened, and medical science and especially surgery are doing much to prolong life and remedy many of the evils that mankind are subject to. We are more comfortably clothed and better sheltered. As an instance: I remember that as a boy with cowhide boots, I used to suffer when eut in the snow. Rubbers and boots have changed all of that. We have much greater variety of food; whether it is better for us or not may be questioned; but the products of all climes are at our command.

In the matter of transportation, distance is almost annihilated. The three or six months once needed to reach the Pacific Coast is cut down to less than a week, and the long trip across the ocean to about six days. Even our local trips are greatly shortened and the auto for those that have it is making counties smaller than townships once were.

Machinery has made labor much easier.

Machinery has made labor much easier.

hearty vote of thanks to the host and hostess the assembly adjourned.

The Columbia Club's Home-Coming.—
The Home-Coming meeting held on Saturday, August 13, at Oak Grove, the beautiful and inviting home of Mr. and Mrs. Frank Ball, was in all respects a most delightful meeting. The pleasant oak grove adjoining the home offered a most grateful abode from the heat of the day. Old friends greeted each other for the first time in many years and among all the spirit of kindly courtesy and sincere friendship which has been the dominant tone of the Columbia Farmers' Club for the past 23 years, everywhere prevailed. In the absence of President C. J. Harper, Dr. E. N. Palmer, at the request of the vice-president, Mrs. S. Ladd, took charge of the meeting. The roll call was responded to with "reminiscences." Many expressions of the pleasant meeting enjoyed in the past were presented. The first regular meeting of the Club was spoken of, which was held at the home of Dr. L. R. Cook, Mrs. Nora Brown reading there the first paper before the Club. The snow at the time was so deep the men were obliged to hold on to the sleighs as the horses waded the snow to get there. W. S. Culver greeted the company with hearty words of welcome and spoke of the benefit the Club had been to the farming community. In response W. F. Raven, of Lansing, spoke of the harmony that had always prevailed and that not

are better adapt d to some real or imaginary ne a.

Our love or the beautiful is fostered in a hundled we a. Pictures that would have been worderful fifty years ago are so common that we scarcely look at them now. Compare the magazines today with the best periodicul of that day. Music and musical instruments everywhere. The wonderful phonograph, moving pictures, games, lake resorts, motor boats, excursions and ballooning for recreation. These are only a few of the glories of the new

sames, lake resorts, motor boats, excursions and ballooning for recreation. These are only a few of the glories of the new day. With them all to use and enjoy, are we any happier? Deprived of these things life would seem to us cheerless and hard, yet it is probably true that the sum of happiness in a life time does not vary much in one age from that in another.

But we do not want to go back to the old times and ways, and should be the happier if we appreciated our good things more, looked steadfastly on the bright side, and rejoiced in our living in this new day.

CLUB DISCUSSIONS.

CLUB DISCUSSIONS.

Hold Young People's Meeting.—The Riverside Farmers' Club met Thursday, August 4, at the pleasant home of Mr. Lewis Lyons and sons. Nearly all the Club members and a number of invited agenuine round-up by the cowboys of the west.

Our Opportunities.—Mrs. E. A, Halladay, of Clinton, spoke on "Our Opportunities," saying, the embracing of every trifling opportunity to do a kind act or say a kind word builds for us a character both lovely and lovable and the neglect of the same is responsible many times for the barrenness of many lives. There grows a rose of exquisite beauty in the barrenness of the Mississippi but is so covered by thorns that the traveler hesitates to gather them, but the native there will tell you that the thorns are harmless, and he who braves the briar to pluck the rose finds them pliable to the touch and a flower of unusual fragrance. The lesson of the rose is ours. Opportunities are offered to old and young alike, but in the same ratio, as we improve them in our youth do we enjoy them in our old age. After a bountiful supper was served on the lawn the company spent some time in further renewing old acquaintances with the guests that were present from many points in the state. The September meeting will be held with Mr. and Mrs. W. T.

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

#### THE SEPTEMBER PROGRAMS.

State Lecturer's Suggestions for First Meeting.

"Give me the making of a nation's songs and I care not who makes its laws." Roll call, responded to by each member telling an anecdote about his birthplace. Book review of "A Man Without a Country."

Dr. W. J. Beal and his work at M. A. C.—a paper.
Select reading, "Who Cries Hard Times?" Cement farm improvements, paper or

lk. Recitation (pathetic or humorous). Drawing contest, as a surprise feature. Singing "America" by audience. Dialect songs throughout this program.

Suggestions for Second Meeting.
Pomona Day Program, prepared by
iss Nellie A. Mayo, Pomona of State Miss Nellie A. Mayo, Pomona of State Grange. Music, selected by Pomona. Reading "The Story of Johnny Apple-

Recitation, "When the frost is on the pumpkin, and the fodder's in the shock." Paper, followed by discussion on "Small fruits for the small farm." Talk by some fruit specialist. Question "Is there any practical way of protecting fruit from the late spring frosts?"

Short and informal talks on "Some-thing I have learned about fruit, in cul-tivation, picking, marketing or preparing it for household use."

#### WHY ENCOURAGE JUVENILE

In spite of the fact that I wrote upon this topic some weeks ago, its supreme importance urges me to a further word. If I am not mistaken, its relative value to the Grange movement is greater than we realize in our practice. For this reason let us look at the question, "Why encourage Juvenile Granges" from three standpoints: 1. Because the trend of human interest is childward. 2. Because country children need constructive thought put forth in their behalf. 3. Because the good the Juvenile Grange can do has been fully demonstrated.

First, then, the Grange needs to give more attention to the juveniles in its

fore, as one of the great means at work to lead the world to better things for every individual in it, the Grange has a responsibility in this direction which it can hardly escape. It is no vague part, either. The Grange's specific use is to assist in making life more attractive and more worth while to the people whose homes are in the country. That is a plain, practical proposition. It is a proposition that includes all the farm family. Unless boys and girls are socially satisfied and get the training that fits them to cope on fair terms with other people, they grow up they will continue to leave the country for the city. In other words, if other organizations and societies are giving careful, thoughtful attention to the fullest possible development of its childlife, rural life organizations must do the same—or lose their children when grown. This is one of the most distinct, definite problems now before the Grange. JENNIE BUELL.

#### AMONG THE LIVE GRANGES.

Deer Lake Grange, of Charlevoix Co., reports that its lecture hour is one of its strong features and does more to help the Grange on to success than any other. At the last meeting of this Grange the mem-bership contest between the Reds and Blues was concluded, the latter winning by a good margin.

by a good margin.

Ironton Grange initiated three candidates and received two applications at its first August meeting. Over 50 members were present, an excellent attendance for a mid-summer meeting. That the good work is to continue is evident from the fact that leaders were chosen and other plans laid for conducting a spirited contest for new members. A capable degree team was also appointed.

Barnard Grange, of Charlevoix Co., is



The Juvenile Grange at Pittsford, Hillsdale Co., Mich.

provinces because the trend of humanity is toward the child. On every hand more interest is being shown in the little child mainly to what the Grange had accompthan ever before. Is this not evident in lished in the past through the power of the effort made to fit the school to the organization, and what it is doing at real needs of the child; to secure such Grange as a fraternity. treatment of juvenile offenders of the law in the process designed mation, he shall not become thrice contaminated by vice; and to enlist parents in such observation and study of child nature as has never been known before? A physician who has given this matter some thought says, "This is a child's Our predecessors seemed to think the child period one to pay little attention to and hasten over. Gods and goddesses were hurled into existence full blown and developed-not embarrassed by childish remembrances. But the Great Leader saw differently when He said 'except ye become as little children ye cannot enter in.'

The force of this last very familiar quotation is increasing everywhere. There- interested will let us know.

#### Pomona Meetings.

Grand Traverse District Grange, at Long Lake town hall, Wednesday and Thursday, Sept. 7 and 8.

#### Grange Rallies and Fairs

Clinton Co. Pomona rally, on the fair grounds, at St. Johns, Saturday, Aug. 27. Good literary and athletic programs. Fifth annual fair of Crystal and Butternut Grange Fair Assn., in the Van Luevan building at Crystal, Thursday and Friday, Sept. 29 and 30.

#### ANY PICNICS?

We will be glad to publish the dates and place to be held of any picnics or farmers' gatherings of any kind, if those

# **MARKETS**

DETROIT WHOLESALE MARKETS.

August 24, 1910. Grains and Seeds.

Grains and Seeds.

Wheat.—The trade has been a gradually declining one the past week until Tuesday when strength at Liverpool and fears of frosts in Canada where the spring wheat is not yet harvested, resulted in a sudden upturn in prices. Cash wheat worked to below a dollar on the local market. It is observed that farmers are not ready sellers where local elevators cannot pay them a dollar per bushel, and the receipts are being reduced; but compared with other seasons they are still heavy. Michigan farmers are particularly conservative about selling, founding their action largely upon the known shortage of spring wheat which they believe will give the market a bearish feeling as soon as the flush of fall selling is past. Northwestern millers are busy this week and flour is finding a good outlet. Liverpool was the chief factor in the better prices on Tuesday, she getting her strength elsewhere since the market here followed her lead. Visible supply increased three and three-quarter millions bushels. One year ago the price for No. 2 red wheat was \$1.07 per bu. Quotations for the past week are: week are: No. 2 No. 1

140. 2	740. 7		The state of the s
Red.	White.	Sept.	Dec.
Thursday1.011/2	.991/2	1.021/2	1.0634
Friday1.001/2	.981/2	1.011/4	1.05 %
Saturday	.971/2	1.001/4	1.05.
Monday991/2	.961/2	1.00	1.04%
Tuesday1.001/2	.971/2	1.01	1.05%
Wednesday1.00	.97	1.001/2	1.051/4
Corn Thone is le	ee eallir	or of c	orn by

Corn.—There is less selling of corn by farmers than at this time a year ago, there being a general feeling that the crop will not prove a big one, although there are places where good stands are promised; but mixed with these localities are others with poor stands which it is thought will bring the average down so as to make good prices probable. Rains have fallen in various places and improved the crop. The local market is slow and easy. One year ago the price for No. 3 corn was 72c per bu. Quotations for the week are:

	o. 2 No. 2 Yellow.
Thursday	
Friday	. 65 67
Saturday	64 66
Monday	64 66
Tuesday	. 64 66
Wednesday	63 1/2 65 1/2
Oats Oat prices decline	ed with those of

Oats.—Oat prices declined with those of wheat and corn. The offerings of oats were heavy the past few days and the visible supply has increased over three and one-half million bushels. The local trade has an easy tone. Threshing is in progress in Michigan. Some sections are having splendid yields while others are getting relatively as poor harvests. A year ago the price for standard oats was 39c per bu. Quotations for the week are as follows:

	Standard.	Sept.
Thursday	361/4	361/2
Friday		361/2
Saturday		36
Monday		36
Tuesday		35 3/4
Wednesday		343/4
		hoone

Beans.—Nominal quotations for beans are higher following a general understanding that the beans are not filling as well as they might for the reason that rains have not come as copiously as is required by normal plants. The tone of the market is strong. No local transactions are reported. Quotations for the week are as follows:

Cash. Oct.

		1										(	Cash.	1	Oct.
Thursday					1							.\$	2.35	3	2.15
Friday .	30				1								2.40		2.15
Saturday	•				•	0			0				2.40		2.15
													2.40		2.15
Tuesday		•			ľ	3							2.40		2.15
Wednesd	av		•				0			0			2.40		2.15
W Currend	23			٠,											

Cioverseed.—Prices have been fluctuating during the week, dropping 40c and then recovering most of the loss. Farmers are not generally looking for a large yield or even a fair one. Quotations for the week are:

the week are.	Prime Spot.	Oct
Thursday	\$8.50	\$8.6
Friday	8.50	8.40
Saturday	8.10	8.10
Monday	8.25	8.2
Tuesday	8.40	8.4
Wednesday		
		9

Prime spot. Oct.	ally easy, although dairies are quoted 1c	8
Thursday\$8.50 \$8.60	bighon Creameries 241/2 @ 29C: Galfles.	1
Twidow 0.10	05 60 97 5	T
Saturday 8.10 8.10	Eggs.—Market active and firm with the	+
Monday 8.25 8.25	better grades showing an advance of 1c,	1
Wichday 8.40 8.40	better grades showing an advance of 1c,	, k
Tuesday	While iniscendineous receipts have made	1
Wednesday	a gain of ac. Quotations are.	U
Rye.—The market is easy and lower.	firsts, 21c; firsts, 19c; at mark, cases in-	n
The nominal quotation is 73c per bu.,	cluded, 14@17c doz.	8
which is 1c less than the price of a week	Hay and Straw.—Market steady at	n
	last week's advanced figures. The	0
ago.	quotations are: Choice timothy, \$22@	00
Visible Supply of Grains.		Ф
This week. Last week.	do. and No. 1 mixed, \$19@20; No. 3.do and	13
Wheat22,362,000 18,582,000		g
Corn 2.0/5.000 3.011,000		C
Oota 5.025.000 4.426,000	\$500 10.50,	U
		7
Barley 705,000 884,000		1
Barley	advance since this time last week. Choice	9
Flour, Feed, Provisions, Etc.	hand-picked are quoted at \$2.70@2.72;	7
Flour The flour trade is firm at last	fair to good, \$2.65@2.67; red kidneys,	ď
week's figures. Millers are active and	\$4.25@4.50 per bu.	9
		2
are finding a good call for flour.	the in the nest week due to an indifferent	t
Clear	demand and an easier feeling generally.	
Straight 4.80	Quotations are: Choice to fancy new,	u
Patent Michigan 5.10		a
Ordinary Patent 4.90		S
Hay and Straw.—While figures are un-	Wool.—Nothing new in situation, former	0
changed quite a strong undertone	prices ruling. Unwashed fleeces from all	
characterizes the hay deal. The quo-	bright wool sections are quoted as 101-	I
tations on baled hay in car lots f. o. b.	lows: Fine heavy, 13@15c; fine delaine,	1;
tations on pared hay in car lots 1. o. o.		e
Detroit are: No. 1 timothy, \$16@16.50;	23@25c.	f
No. 2 timothy, \$15@15.50; clover, mixed,	25 @ 25C.	p
\$15@15.50; rye straw, \$7@7.50; wheat and	Boston	\$
00 7007 40-		

Patent Michigan 5.10
Ordinary Patent 4.90
Hay and Straw.—While figures are unchanged quite a strong undertone characterizes the hay deal. The quotations on baled hay in car lots f. o. b. Detroit are: No. 1 timothy, \$16@16.50; No. 2 timothy, \$15@15.50; clover, mixed, \$15@15.50; rye straw, \$7@7.50; wheat and oat straw, \$6.50@7 per ton.
Feed.—All grades steady with last week. Carlot prices on track: Bran, \$23 per ton; coarse middlings, \$24; fine middlings, \$27; cracked corn, \$27; coarse corn meal, \$27; corn and oat chop, \$24 per ton.
Potatoes.—Most of the states where potatoes are produced extensively report a short crop maturing. New Jersey ap-

No. 1 horeshides, \$3.50; No. 2 horesides, \$2.50; sheepskins, as to amount of wool, 25@75c.

Dairy and Poultry Products.

Butter.—Milk is scarce and consequently the creameries cannot get butter-fat to make butter; as a result prices are higher and dealers expect that they will soon make further advances. Quotations are: Extra creamery, 30c; firsts, do., 29c; dairy, 23c; packing stock, 22c per lb.

Eggs.—Another advance is chronicled in the egg trade. The output is decreasing and the demand continues strong. Some of the dealers are moving storage eggs. Fresh receipts, case count, cases included, are quoted at 20c per doz.

Poultry.—Poultry is being delivered in rather liberal quantities and the quotations are lower. Broilers and hens are off and now quoted at 15c; roosters and stags remain at 10c; ducks at 14@15c; geese are down to 10c, and turkeys are at 17@18c per lb.

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

Fruits and Vegetables.

domestic block, 21@22c; cream brick, 16½@17c.

Fruits and Vegetables.

Apples.—Values steady. Supply is good. Duchess are quoted at \$3@3.50 per bbl., and common stock at \$2@3.

Cabbage.—Lower. Selling at \$1.50 per bbl, for new.

Blackberries.—Offerings scarce. Market steady. Selling at \$3.50@4 per bu.

Huckleberries.—Steady and scarce Quoted at \$4@4.25 per bu.

Peaches.—Good peaches are hard to get. One-nifth bushel basket is quoted at 25c.

Tomatoes.—The receipts of tomatoes are liberal. Generally quoted at \$1.75@2 per bu.

Vegetables.—Beets, 75c per bu; car-

Vegetables.—Beets, 75c per bu; carrots, 50c per bu; cucumbers, 20@25c; per doz; eggplant, \$1.25@1.50 per doz; green beans, 75c hamper; green peas, 75c bu; green onions, 10@12c doz; head lettuce, 75@90c per bu; mint, 25c per doz; parsley, 20@25c per doz; radishes, 15c per doz; spinach, 65c per bu; turnips, 40c per doz; watercress, 20@25c per doz; wax beans, 75c bu; pieplant, 20c per dozen.

#### OTHER MARKETS.

#### Grand Rapids.

Grand Rapids.

Tuesday morning's market on the island was small on account of the rain. Fruit prices range as follows: Peaches, \$1.50@ 1.75; good apples, \$1.30; pears, \$1.35@1.50; plums, \$2@2.50; huckleberries, \$2.50. Vegetable prices are as follows: Butter and string beans, 85c; corn, 12@15c; cucumbers, 25c doz; celery, 15@18c; cabbage, 80c; tomatoes, \$1.80@2; beets, 50c; muskmelons, \$2.75; home-grown potatoes, 85c@\$1. Hay is bringing \$17%18 per ton. Eggs are bringing \$17½c, an advance of ½c over last week. Good dairy butter is 1c higher, bringing 24c; packing stock 21c. Creamery butter is 1c higher, bringing 930c. Wheat is off 2c, the mills paying 93c for No, 2 red and 92c for No, 1 white.

#### New York

Butter.—Prices 1½c higher for best creameries, with market firm at the advance. Creamery specials quoted at 31½c; extras, 30½c; thirds to firsts, 24½@29½c. Eggs.—Market firm with prices showing a good advance. Nearby eggs are quoted at 28@32c; fresh gathered extras, 24@25c; firsts, 22@23c per doz.

Poultry.—Market weak and lower. Live quoted as follows: Western broilers, 16½c; fowls, 14@15c; turkeys, 10@14c lb.

Chicago.
Wheat.—No. 2 red, 99½@\$1.00%; Sep-

wheat.—No.
tember, 99%c; December, \$1.02%s—
per bushel.
Corn.—No. 2 mixed, 61½c@61%c; September, 60%c; December, 58%c.
Oats.—No. 3 white, 33½@34c; September, 34½c; December, 36%c.
Butter.—Trade slow and market generally easy although dairies are quoted 1c higher. Creameries, 24½@29c; dairies,

Boston.
Wool.—Restricted buying operations is the feature of the local trade but the undertone is firm at former prices. Even higher values are expected later on in the season. Following are the leading quotations for the week: Ohio and Pennsylvania fleeces—Delaine washed, A. 34c; XX, 30c; fine unmerchantable, 24@25c; ½-

#### Chicago.

Chicago.

August 22, 1910.
Cattle. Hogs. Sheep
Received today .....28,000 26,000 38,000
Same day last year. 24,325 26,726 29,631
Received last week. 63,380 112,919 120,345
Same week last year.51,992 88,715 110,912
Cattle market opened in good shape this week considering liberal receipts of 28,000, and while medium and plain grades went 10c lower than high spot on the close last week, the good to choice beeves, including practically all of value above \$7.25 held an unchanged level. There was broad shipping and packer demand for the close last week, the good to choice beeves, including practically all of value above \$7.25 held an unchanged level. There was broad shipping and packer demand for the fat grades and fortunately a larger quota of choice steers was included in supplies than showed up in recent weeks. A liberal supply of choice beeves sold at \$8.08.

8.45 and two droves landed at \$8.50, while a strictly prime class was quoted up to \$8.60. Biggest share of fat native steers sold at \$7.40@8, while cattle which went below \$7 were largely grass-fed grades. Range, cattle supply was 9,000 and steady to firm rates prevailed for good westerns, best selling at \$7.15. Cow and helfer demand was strong, at \$3.50@4.65 for medium to good while choice corn-fed heifers made \$6@6.50. Bulls sold 10c higher at \$3.25@4.75 and calves were steady, bulk making \$8.25@8.75. Feeding cattle of good grade went at 10c advance, selling up to \$6, while medium and plain classes held last week's level, common stockers to good feeders selling at \$3.25@5. Hog receipts of 26,000 were below expected volume and prices advanced 10@15c, sales being highest in several weeks. Prime lights went up to \$9.20 and butchers at \$9.05, with choice heavy shipping at \$8.75 while mixed and heavy packing sold at \$8.08.40. Average weight last week was 254 lbs., two lbs, heavier than the week before and 24 lbs, above a year ago.

Sheep and lamb receipts were 38,000, an unusually big supply, but the same old aggressive demand prevailed for feeding stock and since a big share of the run comprised these classes there was free movement. Feeders held firm while fat lambs were 10c lower and ewes and wethers went 5@10c off. Feeders paid \$6.85 for choice range lambs and top to the packers was \$6.75. Wethers sold up to \$4.35 and fat ewes at \$4.25, while cull ewes ranged down to \$2@3. Plain and medium native lambs sold at \$5.50@6.25.

Market for steers in the past week pursued a sharply higher course in face of liberal supplies, although the run was a few thousand below the week previous. A reju

pears to be the lone exception. Michigan growers report poor prospects. New potatoes are quoted at \$2.75 per bbl.

Provisions.—Mess pork, \$22; family pork, \$23@41; medium clear, \$23@24; medium clear

\$2.25@3.10. Bulls sold at \$3@4.40 for common to good and veal calves made \$7.25@8.75.

Present situation in porcine trade forecasts an end to the packers' hear campaign. Although receipts are running 15 per cent heavier than a few weeks ago demand is broadening proportionately and prices are moving higher. Last week heavy packing and shipping grades advanced 25c over the previous week's level while lights and butchers sold up 10, and the average price at the close last Saturday was highest since July 29. The partiality for heavy packing grades is due to the fact that the killers are finding a much broader outlet for pork meats, both fresh and cured, while the higher market for provisions adds to the packing interest in the lard making hogs. Prediction is being made that before long the light weights, which have for weeks past been holding at a considerable premium, will lose it, and the choice heavy shipper kinds mount to the top of the list. Traders look upon this as the wrong time for prices to go lower in view of strength-demands, and even though the supplies continue to increase inquiry for pork meats is expected to grow accordingly. It is largely an \$8@9 market for good heavy packing to choice light bacon grades, though fancy lights reached \$9.05 late last week. Rough heavy packing made \$8.80.30 and good butchers \$8.50@8.80. Pigs still met 800d call at \$8.50@9.

Sheep and lamb movement dropped off 10,000 last week compared with the week

\$7.70 while mixed packing maJe \$8@8.30 and good butchers \$8.50@8.80. Pigs still met good call at \$8.50@9.

Sheep and lamb movement dropped off 10,000 last week compared with the week before, but there was still a liberal supply and fat lambs were forced 10@15c off, although the aggressive demand for feeding stock put these up to a basis that was much higher than the week before. Muttons, on the other hand, held at a strong basis. Packers have been receiving a big crop of native lambs from Kentucky, but this movement is now about finished, and the opinion prevails that lambs are due for a substantial advance. Feeder buyers are taking away from the packers everything which they can get and it is a serious bit of competition which is prevailing even for the 60 to 65-lb. range lambs. Feeders paid \$6.60@6.70 for bulk range lambs last week and up to \$6.85 for Californias, while at the close it took choice fat range lambs to command that price, although earlier in the week they topped at \$7 and prime natives reached \$7.10. Medium and plain. natives went down to \$5.50@6.25 and a common kind below \$5. Montana and native wethers sold up to \$4.40, fat ewes at \$4.15@4.35 and culls at \$2.50@3.50. Feeding ewes went at \$3.90@4.15 and breeding ewes reached \$7.75.

Demand for big drafters and rugged feeders continues moderately good at stationary prices, but all other grades of horses are meeting poor general sale and the trade does not look for betterment until there is a renewal of liberal eastern orders for fall and winter use. The west is marketing with fair freedom while calling for a liberal number of good horses to feed for later markets. Eastern dealers are taking top grace drafte " tt \$250@275 and upward but medium an good offerings clear at \$15.02.25 and lie la. kinds sell down to \$170. The eder are taking top grace drafte " tt \$250@275 and upward but medium an good offerings clear at \$15.02.25 and nain good " pressers at \$125@185. Good to c. ice a. " rs landed at \$185@275 with a b. n kin. Jown to \$110@125.

Feeder buyers' keen desire for fleshy steers to give a shoot feeding inducing them to pay \$5.75\psi\$ for good quality 1,000 to 1,100-lb. steen in the Chicago market. Since a big corn in is assured there is a rush of buyers in a these classes but the packers are foung their attempts to purchase a big supply. Range beef is not plentiful enough to suit the killers and to make up for lack of westerns they are competing freely against feeder buyers and running the prices for many cattle which really are feeder grades, up to a level the feeder buyer dares not equal.

The silo as an aid to beef production

dares not equal.

The silo as an aid to beef production since the hay crop has run short this season is being given a big boost in live stock circles. Where hay is scarce and the farmers have silos they are in a position to have plenty of feed if they will use the silage in steer fattening. Experiments at college stations have shown that a ten-acre yield of corn in a silo will give the feeder the same beef gains as made from 20 acres of clover or timothy hay. This being true the absence of a silo on the farm seems about as serious a matter as shortage in the yeld from the meadows.

BUSHEL CRATES

Made of the best elm plank, nails clinched, round
corners. 3 go in same space as 2. Price 12% cents,
each, nailed. Price 10 cents each flat.
WILLALLEN, Howell, Mich.

#### THIS IS THE LAST EDITION.

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

#### DETROIT LIVE STOCK MARKETS.

#### Thursday's Market.

August 25, 1910.

Cattle.

Receipts, 772. Butchers grades active and 15c higher; cows and bulls steady.

We quote. Extra dry-fed steers and heifers, \$6; steers and heifers, 1,000 to 1,200, \$5.25@5.50; steers and heifers, 800 to 1,000, \$4.50@5; grass steers and heifers, 800 to 1,000, \$4.50@5; grass steers and heifers that are fat, 800 to 1,000, \$4.50@5; grass steers and heifers that are fat, 500 to 700, \$4@4.25; choice fat cows, \$4.50; good fat cows, \$4@4.25; common cows, \$3@3.75; canners, \$2.25@2.85; choice heavy bulls, \$3.50@3.75; stock bulls, \$3.55@3.50; choice feeding steers, 800 to 1,000, \$4.60; choice feeding steers, 800 to 1,000, \$3.50@4.75; fair feeding steers, 800 to 1,000, \$3.50@4.75; fair stockers, 500 to 700, \$3.25@3.50; stock heifers, \$3.25@3.50; milkers, large, young, medium age, \$40@60; common milkers, \$25@3.5.

Bishop, B. & H. sold Kamman, 18 butchers av 790 at \$4.15 thull waighing

Bishop, B. & H. sold Kamman, 18 butchers av 790 at \$4.15, 1 bull weighing 520 at \$3; to Rattkowsky 5 butchers av 452 at \$3.40; to Sullivan P. Co. 1 cow weighing 900 at \$3.25, 3 bulls av 950 at \$3.75, 2 steers av 920 at \$5, 7 heifers av 550 at \$3.40, 1 do weighing 650 at \$3.50; to Hammond, S. & Co. 1 cow weighing 900 at \$3.75, 1 heifer weighing 740 at \$4.50; to Goose 2 do av 710 at \$3.50; to Sullivan P. Co. 1 bull weighing 1,190 at \$4.50; to Goose 2 do av 710 at \$3.50; to Sullivan P. Co. 1 bull weighing 1,190 at \$4.50; to Goose 2 do av 710 at \$3.50; to Sullivan P. Co. 1 bull weighing 1,190 at \$4.50; to Bresnahan 4 do av 812 at \$2.25; to Thompson Bros. 6 do av 900 at \$3.50; to Bresnahan 4 do av 812 at \$2.25; to Thompson Bros. 6 do av 900 at \$3.35, 1 steer weighing 740 at \$5, 11 butchers av 953 at \$4.80, 5 cows av 856 at \$3.60; to Newton B. Co. 2 do av 1,055 at \$4.2 do weighing 925 at \$3.50, 6 do av 883 at \$3.70; to Sullivan P. Co. 2 steers av 1,045 at \$6, 1 bull weighing 1,250 at \$4.25; to Mich. B. Co. 4 butchers av 990 at \$4.75, 1 heifer weighing 740 at \$3.21 tow weighing 1,040 at \$3.25, 5 steers av 900 at \$5.25.

Spicer; & R. sold Bresnahan 16 butchers av 490 at \$3.25; to Douglass 1 steer weighing 500 at \$4.75, 1 heifer weighing 670 at \$5, 2 stockers av 610 at \$4.75, 1 heifer weighing 670 at \$5, 2 stockers av 610 at \$4.75, 1 heifer weighing 670 at \$3.00; at \$4.75, 1 heifer weighing 670 at \$3.00; at \$4.75, 1 chiefer weighing 670 at \$5, 2 stockers av 500 at \$3.10; at \$4.25; to Douglass 1 steer weighing 500 at \$4.75, 1 chiefer weighing 670 at \$5, 2 stockers av 500 at \$3.10; at \$4.25; to Goose 8 do av 500 at \$3.10; at \$4.25; to Parker, W. & Co. 30 do av 855 at \$4.50; to Fuller 20 stockers av 500 at \$3.25; to Breitenback Bros. 31 butchers av 751 at \$4.25; to Parker, W. & Co. 50 do av 855 at \$4.50; to Fuller 5 stockers av 568 at \$3.75; to Kull 24 butchers av 737 at \$4.50; to Fuller 20 stockers av 567 at \$4.50; to Fuller 20 stockers av 568 at \$3.75; to Hammond, S. & Co. 1 bull weighing 1,050 at \$4.75; 1 at 64.25; to P

Bohm sold Mich. B. Co. 15 butchers av

800 at \$3.90.

Robb sold same 24 do av 846 at \$4.60, 1
bull weighing 930 at \$4, 3 cows av 970 at
\$3, 2 do av 805 at \$2.25.

Johnson sold Kamman 5 butchers av
706 at \$4.25.

Tachwan sold same 6 do av 808 at \$4.

Terhune sold same 6 do av 808 at \$4. Bohm sold Gerish 6 steers av 1,028 t \$5.10.

at \$5.10.

Johnson sold Fronn 4 cows and bulls av 1,000 at \$3.65.

Johnson 501 Fronn 4 cows av 831 at 7 1,000 at \$3.65. Youngs sold Marx 7 steers av 831 at

Veal Calves.

Receipts, 426. Market 25@50c higher nan last week. Best. \$9@9.50; heavy, 4@6; mediums, \$7.50@8. than last week. Best. \$9@9.50; heavy, \$4@6; mediums, \$7.50@8.
Milch cows and springers steady.
Haley & M. sold Mich. B. Co. 7 av 145 at \$7.75, 3 av 225 at \$8.50; to Burn-

13 av 155 at \$9; to Burnstine 6 av 165 at \$9.50.

Spicer & R. sold Mich, B. Co. 5 av 165 at \$8.25; to Douglass 12 av 150 at \$8.50; to Brant 3 av 120 at \$8, 1 weighing 170 at \$5, 3 av 165 at \$8.25; to Goose 3 av 175 at \$5.25, 4 av 250 at \$5.50; to Brant 5 av 165 at \$7.25; to Mich. B. Co. 5 av 150 at \$9, 4 av 155 at \$9, 6 av 145 at \$8.85, 3 av 190 at \$9.

Bishop, B. & H. sold Mich. B. Co. 4 av 150 at \$9; to Goose 4 av 250 at \$4.50; to Mich. B. Co. 13 av 140 at \$8.85, 4 av 170 at \$7, 8 av 155 at \$8.75; to Freedman 2 av 155 at \$9; to McGuire 9 av 145 at \$9; to Burnstine 5 av 155 at \$9; to McGuire 14 av 170 at \$8.85.

Johnson sold Barlage 5 av 130 at \$8.50, 1 weighing 210 at \$5.50.

Bohm sold Newton B. Co. 10 av 170 at \$8.

at \$8 Kendall sold Burnstine 10 av 160 at \$9.25.

#### Sheep and Lambs.

\$9.25.

Sheep and Lambs.

Receipts, 2,122. Buck lambs very dull and hard to sell; other grades steady at last week's prices.

Best lambs, \$6@6.25; fair to good lambs, \$5@5.75; light to common lambs, \$4.50@5; feeding lambs, \$6; fair to good sheep, \$3.50@4.25; culls and common, \$2.75@3.25.

Spicer & R. sold Stocks 12 lambs av 60 at \$5.50, 12 do av 75 at \$5.7f 6 sheep av 105 at \$3.50; to Pakes 14 lambs av 55 at \$5, 49 do av 70 at \$5.80; to Brown 50 do av 80 at \$5.75, 31 sheep av 105 at \$3.75, 10 do av 106 at \$3; to Mich. B. Co. 20 do av 90 at \$3.50, 17 do av 85 at \$4, 10 lambs av 70 at \$5.50; to Pakes 21 do av 65 at \$5.80, 15 do av 65 at \$5.80; to Haise 17 sheep av 110 at \$3.25.

Bohn sold Newton B. Co. 25 lambs av 80 at \$6, 4 do av 55 at \$5.

Roe Com. Co. sold Barlage 26 sheep av 105 at \$3.50; to Eschrich 9 do av 140 at \$3; to Mich. B. Co. 41 lambs av 80 at \$6.25, 70 de av 70 at \$5.75.

Terhune sold Mich. B. Co. 18 lambs av 70 at \$6.

Downing sold Thompson 49 sheep av 85 at \$4.25.

70 at \$6.

Downing sold Thompson 49 sheep av 85 at \$4.25.

Haley & M. sold Newton B. Co. 3 sheep av 160 at \$4, 5 lambs av 70 at \$5, 62 do av 75 at \$7' Mich. B. Co. 43 do av 70 at \$5.75, 5 do av 65 at \$5.

Johnson sold Barlage 47 lambs av 73 at \$5.50.

at \$5.50.

Hickey sold Haley 36 lambs av 80 at

at \$5.50.

Hickey sold Haley 36 lambs av 80 at \$5.85.

Bishop, B. & H. sold Pakes 20 lambs av 60 at \$5.75, 27 sheep av 80 at \$3.75, 7 do av 122 at \$4, 1 do weighing 220 at \$3, 9 do av 100 at \$3.75; to Sullivan P. Co. 15 lambs av 85 at \$5.50, 26 do av 80 at \$6, 8 do av 75 at \$5.25, 6 do av 65 at \$6, 55 do av 72 at \$5.40; to Newton B. Co. 28 sheep av 80 at \$2.75; to Sullivan P. Co. 20 do av 90 at \$3.25, 53 lambs r- 62 at \$5.25, 44 do av 70 at \$5.55, 23 lambs r- 62 at \$4.50, 16 sheep av 120 at \$3.75; to Pakes 75 lambs av 80 at \$5.50, 16 sheep av 90 at \$3.25, 53 do av 78 at \$6.25; to Fitzpatrick Bros. 13 do av 45 at \$4.50, 16 sheep av 120 at \$3.75; to Pakes 75 lambs av 80 at \$5.50, 16 sheep av 90 at \$3.25, 33 do av 100 at \$3.35, 32 do av 75 at \$5.75, 10 sheep av 110 at \$3.75; to Eschrich 28 lambs av 70 at \$5.25.

#### Hogs.

Receipts, 2,300. Market 30@35c higher than last week.
Range of prices: Light to good butchers, \$9.25@9.25; pigs. \$9@9.25; light yorkers, \$9.25; heavy, \$9@9.25; stags, one-third off.

Haley & M. sold Hammond, S. & Co. 158 av 185 at \$9.35, 89 av 230 at \$9.25, Spicer & R. sold same 260 av 190 at \$9.35.

Sundry shippers sold same 350 av 190

at \$9.35. Roe Com. Co. sold Sullivan P. Co. 226 av 190 at \$9.35, 140 av 230 at \$9.25. Bishop, B. & H. sold same 60 av 200 at \$9.30, 32 av 190 at \$9.35, 13 av 225 at \$9.10, 18 av 210 at \$9.25. Same sold Parker, W. & Co. 702 av 200 at \$9.30, 173 av 190 at \$9.35, 40 av 230 at \$9.15, 130 av 220 at \$9.25.

#### LIVE STOCK NOTES.

The Indian's ability to grow beef on the The Indian's ability to grow beef on the range where he has a competent tutor, is being plainly indicated by the North Cheyennes in Montana. The Tongue river agency recently marketed at Chicago a shipment of 28 loads of range steers of the Hereford type at prices ranging from \$7.25 down to \$5.70, the top lot being high point of the season for westerns this year. These cattle were home-grown Montanans and the top load weighed 1,580 lbs. This is the third season's shipment from that range since the government allotted the Indians breeding stock and their way of handling the beeves is good evidence that they are possessed of an ambition to make the tribe rich by producing good beef.

### GENERAL REVIEW OF CROP CONDITIONS.

The month of July was unfavorable for crop growth, taking the United States as a whole, the deterioration being about 4.2 per cent, as compared with an average decline of 2.3 per cent during July. Aggregate crop conditions in the United States as a navel rupture which is not seemingly doing the colt any harm, but I am at a navel rupture which is not seemingly doing the colt any harm, but I am at a navel rupture which is not seemingly doing the colt any harm, but I am at a navel rupture which is not seemingly doing the colt any harm, but I am at a navel rupture which is not seemingly doing the colt any harm, but I am at a navel rupture which is not seemingly doing the colt any harm, but I am at a navel rupture which is not seemingly doing the colt any harm, but I am at a navel rupture which is not seemingly doing the colt any harm, but I am at a navel rupture which is not seemingly doing the colt any harm, but I am at a navel rupture which is not seemingly doing the colt any harm, but I am at a navel rupture which is not seemingly doing the colt any harm, but I am at a navel rupture which is not seemingly doing the colt any harm, but I am at a navel rupture which is not seemingly doing the colt any harm, but I am at a navel rupture which is not seemingly doing the colt any harm, but I am at a navel rupture.—My four-month-old colt has a navel rupture which is not seemingly doing the colt any harm, but I am at a navel rupture.—My four-month-old colt has a burd. Naverage on August 1 of the past to colt alone until cooler weather, then have a competent veterinary surgeon operation is about 3.2 per cent more than last year. Conditions average highest in New Hampshire, 25 per cent above the average, due largely to good hay prospect; resublimed iodine at a dose in water twice and average on August 1 of the past ten have a law and apply tr. iodine three times a week.

Blood Poison.—My two-month-old colt has a large bunch on shoulder which our veterinarian fails to reduce. I have applied one quart of liniment which the v The month of July was unfavorable for

99; South Carolina, 98; Georgia, 95; Florida, 94.
Ohio, 103; Indiana, 105; Illinois, 101; Michigan, 93; Wisconsin, 75; Minnesota, 85; Iowa, 92; Missouri, 103; North Daktota, 41; South Dakota, 81; Nebraska, 86; Kansas, 97.
Kentucky, 98; Tennessee, 104; Alabama, 100; Mississippi, 103; Louisiana, 103; Texas, 106; Oklahoma, 89; Arkansas, 101.
Montana, 83; Wyoming, 74; Colorado, 86; New Mexico, 85; Arizona, 100; Utah, 194; Nevada, 102; Idaho, 91; Washington, 88; Oregon, 106; California, 111.
The condition of various crops in the United States on August 1, 100 representing for each crop, not its normal condition, but its average condition on August 1 of recent years (10-year average for most crops)—was as follows:
Peaches, 128.6; winter wheat, (yield peracre), 110.5; clover (production compared with average production), 105.5; rye, 11 (yield per acre), 101.8; hops, 100.1.
Feanuts, 99.8; oats, 98.7; sweet potatoes, 98.5; lemons, 98.3; rice, 98.2; tomatoes, 97.5; sugar cane, 97.0; broom corn, 96.7; corn, 96.6; buckwheat, 96.5; onions, 96.1; cabbages, 95.9; beans, 95.8; oranges, 95.6; cantaloupes, 95.2; hay, 95.2; cotton, 95.1; v tobacco, 95.0; watermelons, 94.0; sorghum, 93.6; sugar beets, 93.6; hemp, 91.0; alfalfa, 90.1.
Grapes, 89.5; potatoes, 88.1; apples, 86.3; cartages, 95.5; potatoes, 88.1; apples, 86.3; cartages, 95.6; cartages, 95.5; potatoes, 88.1; apples, 86.3; cartages, 95.6; cartag

fa. 90.1.
Grapes, 89.5; potatoes, 88.1; apples, 86.3; barley, 82.1; pasture, 81.8; kafir corn, 81.6; millet, 80.3.
Raspberries, 78.0; blackberries, 76.6; spring wheat, 74.5; flax, 58.5.

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.

Foot Sofe.—I have a cow that has been sore in front for the past few weeks. She stands with fore feet well in advance of body, and I might say her health is fine. R. A., Bedford, Mich.—Stand her in wet clay not less than three hours a day and apply crude oil to fore hoofs daily.

Bog Spayin—I have a horse that is

apply crude oil to fore hoofs daily.

Bog Spavin.—I have a horse that is quite lame, caused from bog spavin and I am anxious to have him cured so that he will travel sound. M. A. C., Attica, Mich.—Blister joint lightly, using cerate of cantharides; these applications should be made once a week. In my practice I frequently apply equal parts tincture of iodine and spirits camphor daily and allow the owner to use the horse for light work, but he should be driven no faster than a walk.

Dry Cough.—I have a four year old class.

walk.

Dry Cough.—I have a four-year-old, also a two-year-old colt that have been troubled for the past four weeks with a cough. Neither of them have swollen glands, no discharge from nose and both are seemingly in good health. M. W., Carsonville, Mich.—Give each one a tablespoonful of tincture of opium and a teaspoonful of tincture lobelia at a dose in feed twice a day. If you prefer to give them a less expensive remedy try giving two tablespoonfuls powdered licorice at a dose in feed twice daily.

Warts on Ildder—The beg of my cow is

Warts on Udder.—The bag of my cow is completely covered with warts and I would like to know what can be done to get rid of them. Mrs. W. J., Ypsilanti, Mich.—Clip off every one that has a neck and apply acetic acid to the flat ones once a day. To heal the sores apply hydrogen peroxide twice daily; ten minutes after these applications apply boric acid. If the cow is nervous and frets while being milked, don't remove too many warts at a time. It may be necessary to buckle a surcingle around her body at flanks in order to make her stand still when you milk her.

Bronchocele.—Will you kindly tell me if a round movable bunch that is situated in the throat of a colt can be removed? This bunch is about the size of a hen egg. B, D., Milford, Mich.—Give 20 grains of resublimed iodine at a dose in feed or water twice a day until the bunch begins to reduce, then smaller doses may be given. Warts on Udder.—The bag of my cow is ompletely covered with warts and I

to reduce, then shalled given.

Pin Worms.—I have a colt 3½ months eld that is troubled with pin worms and he is not thriving. The mare has been fed on dry feed until a month ago, but she shows no symptoms of being wormy.

A. McC., Leslie, Mich.—Wash out bowels with an infusion of quassia once a day or use a two per cent solution of coal tar disinfectant or a weak salt solution.

a navel rupture which is not seemingly doing the colt any harm, but I am at a loss to know how to treat it. S. H. H., Oak Grove, Mich.—You had better leave the colt alone until cooler weather, then have a competent veterinary surgeon operate on him. The operation is not difficult or dangerous

stine 5 av 160 at \$8.75; to Thompson Bros. mont, 119; Massachusetts, 111; Rhode Is8 av 145 at \$7.50.
Roe Com. Co. sold Mich. B. Co. 5 av New Jersey, 102; Pennsylvania, 104.
150 at \$8.50, 4 av 150 at \$8.50; to Burnstine 6 av 165 106; West Virginia, 99; North Carolina, 155 at \$9; to Burnstine 6 av 165 106; West Virginia, 99; North Carolina, 161 per 38, 50.
Spicer & R. sold Mich. B. Co. 5 av 165 ida, 94.

150 at \$8.50; to Douglass 12 av 150 at

parts water injected into sack or wound twice daily.

Cow Gives Bloody Milk.—We have a cow that gives bloody milk from one teat. She has been in this condition for the past four months. Mrs. W. R., Harbor Beach, Mich.—Use a milking tube and avoid squeezing udder. Most cows that give bloody milk have injured their udder and the small blood vessel that opened is disturbed at each milking, unless a tube is used.

Infected Udder.—One of my cows came fresh in April and had no udder trouble until six weeks later, at which time one quarter became diseased, causing her to give bloody, stringy milk. Some time later another quarter became diseased, later another quarter, and still later the fourth quarter went wrong, all showing the same symptoms. J. I., Brown City, Mich.—Her udder should be washed out daily with a two per cent solution of carbolic acid, but in order to do so you must use a return flow syringe.

Sprained Shoulder.—My four-month-old calf is in good condition but at times drags one fore leg. What had I better do for her? T. W. T., Breckenridge, Mich.—Apply equal parts turpentine, aqua ammonia and raw linseed oil to shoulder three times a week.

Pigs Cough.—Our pigs are troubled with a cough and some of them have thumps.

Pigs Cough,—Our pigs are troubled with a cough and some of them have thumps. I have given soda and charcoal to them mixed in their feed. Mrs. C. W., Sherwood, Mich.—Give them some powdered licorice in feed twice or three times a day.

wood, Mich.—Give them some powdered licorice in feed twice or three times a day.

Parasitic Bowel Trouble.—I have recently lost three large and one small turkeys which show bowel trouble, but am unable to tell if it is cholera or not. They appear dumpish, stand around and refuse to eat. Mrs. G. L. P., Bad Axe, Mich.—Give each turkey 2 grs. sub-nitrate bismuth at a dose three times a day; also give each one a grain of quinine at a dose three times a day; also give each one a grain of quinine at a dose three times a day; also give each one a grain of quinine at a dose three times a day; also give each one a grain of quinine at a dose three times a day; also give each one a grain of quinine at a dose three times a day; also give each one a grain of quinine at a dose three times a day; also give each one a grain of quinine at a dose three times a day; also give each one a grain of quinine at a dose three times a day; also give each one a grain of quinine at a dose three times a day; also give each one a day; also give each one a day; also give each one in the farm of the farm of the farm and as I have owned her since she was six weeks old would like to have some advice about training her. Mrs. M. E. H., Muskegon, Mich.—If she lacks intelligence you will fail to teach her to be of much use on the farm. If I were you I would buy another dog that was broke to drive stock and perhaps exchange yours with the dog man you deal with. Stupid dogs have no value.

Epilepsy.—I would like to know what was wrong with my calf. It sucked its

and perhaps exchange yours with the dog man you deal with. Stupid dogs have no value.

Epilepsy.—I would like to know what was wrong with my calf. It sucked its mother while she suffered from milk fever a day or two after she calved. Now the calf had fits and appeared as though it was insane; following these spells the calf would fall and struggle and when ten days old died. R. H. S., Hale, Mich.—Your calf no doubt suffered from epileptic fits and I do not believe that its mother's milk had much to do with causing its sickness and death.

Kicking Cow.—I would like to know how to prevent my cow from kicking. She stood fairly well for a few days after coming fresh, then commenced kicking when milked; then I let calf suck her. She has a few small sores on teats, but they should not hurt her much. She gives 14 quarts of milk a day. I. W., Oak Grove, Mich.—Her teats are perhaps sore enough to hurt her when milked by hand or sucked by calf. Apply flexible collodion to sores twice a day. Before milking her apply a surcingle around flanks, or you may use a rope; this is perhaps the simplest and best method of restraining the cow from kicking, or another plan is to hopple the two hind legs together leaving ten or twelve inches of space between the legs. Or tie a strap or rope tightly around leg above hock and tighten it same as a twitch is applied to the nose or ear of a horse.

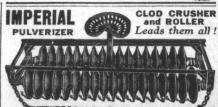
Crop-Bound.—Can you tell me what ails my chickens and chicks? They sit

and tighten it same as a twitch is applied to the nose or ear of a horse.

Crop-Bound.—Can you tell me what ails my chickens and chicks? They sit around and droop, refuse to eat and on examination find that their crops are stuffed very full. They are fed cracked corn and chick feed. Is their ailment caused by want of grit? Mrs. O. S. Kent City, Mich.—Your chickens are not fed enough vegetable food; consequently the crop and bowels become impacted. Give them sweet oil, a teaspoonful to each full grown chicken or the crop should be opened, its contents removed and the skin stitched with either catgut or sterilized silk. The stitches removed after the wound heals.

Sweeney.—We would like a little advice regarding a mare that is sweenied and travels quite lame. The shoulder muscles are very much smaller than they should be. The fetlock on lame leg is thickened all the way round and I would like to know how to reduce it. M. S. T., Decatur, Mich.—You had better clip the hair off atrophied parts of shoulder and blister lightly every week or ten days, using either cerate of cantharides or any

nair off atrophied parts of shoulder and blister lightly every week or ten days, using either cerate of cantharides or any good home blister you may have on hand, If the bunch on ankle is not inflamed and growing you had better leave it alone, partitional weether; then apply idding growing you had better leave it alountil cool weather; then apply iodine.



CEND FOR The Peterson Mfg. Co. KENT.



# **Late Summer Fancies For The Table**

By Marjorie March.

UGUST gives us cool evenings while Have small cards cut in the shape of a we still have the warmth of the regulation tin can, and on it write these summer sun through the day time. words, "What cans are these? 1. The Perhaps it is for this reason that appetites can that contains water. 2. The can that grow more keen and the dainties of the holds a bird? 4. The can that holds one table are more appreciated by the memorian of the tropics? 5. The can that holds a bers of the household and any guests who broken engagement? 6. The can that happen in, then they are in early summer- holds a frank opinion? 7. The can that time. Our photographs this month show holds a dim light? 8. The can that holds two conceits for the table. One shows a a number of lights? 9. The can that pretty centerpiece for the summer time. holds sweets? 10. The can that holds a A round mirror represents a little lake savage? 11. The can that may blow up? which are little sponge cakes with 12. The can that won't accomplish any-

Then are the assets of hospitality all on her side, and with slight expense she can show herself a delightful hostess. Recipes

Corn Chowder.—To one quart of corn scraped from the cob add one pint of raw potato cut in small dice. To the water in which the corn was cooked add the potato, and salt and pepper. When the potatoes are nearly done, pour off most of the liquid and add a pint of milk and the In another skillet make a little drawn butter, using the corn fluid instead of other milk or water, and when thickened, stir it slowly into the chowder. A very little onion may be added if liked, also two hard boiled eggs, chopped. Serve with croutons.

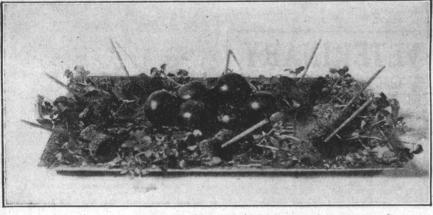
Peach Delight .- Prepare a quart of chopped peaches and into them stir a cup of water, two cups of sugar and the unbeaten whites of four eggs. Beat in the freezer until smooth and stiff and serve in tall glasses, with sponge cake or any white cake if preferred.

Peach Dainty.-Have ready halves of perfect peaches. Into the hollow of each put a teaspoonful of pineapple syrup from preserved pineapples or the ginger syrup from candied ginger. Let stand, then pour out any surplus moisture and fill the peach cups to overflowing with whipped cream. Stick one or two dainty flowerets in the top of each portion. Another quick dessert is to hollow out little cup cakes and if fresh peaches are not obtainable take either peach, strawberry or pineapple preserves and put a spoonful in each cake case, piling whipped cream on

Summer Cup Cakes.—These pretty little cakes may be made by any favorite recipe but the following is very good: A heaping tablespoonful of butter and one cup of sugar creamed together and the yolks of four egges beaten light. Then add, slowly, one cup of milk, alternating with two cups of flour in which are sifted a teaspoonful of cream of tartar and a half teaspoonful of soda. Flavor with orange and bake in greased patty tins. white, pale yellow or pale pink, using the vegetable colorings which can convert simple cakes into confectioner's triumphs.

Tomato Jelly Salad.-Heat a pint of stewed tomatoes with salt and pepper. Dissolve an ounce of gelatine in a very little water and add to the tomatoes and set in moulds to harden. When turned of each, leaving a cup of the jelly and fill with chopped cress or lettuce mixed with mayonnaise dressing, or with sauce tarleaves will dress the homely dessert into tare, which is mayonnaise dressing, with the addition of a chopped pickle and a tablespoonful of capers.

Curried Chicken .- For those who are summer time which will be found tasty fond of curry powder this makes a deli-



A Dish of Croquettes.

sails, which look absurdly like genuine thing? 13. The can that holds a summer crafts of the ocean. Ferns are laid about fruit? 14. The can that holds a paintthe edge of the small sea, their delicate ing? 15. The can, that holds a trot? tracery showing to good effectt on shows neat croquettes with handles made dy. 10. of macaroni, these being intended to represent croquet mallets. In the center of Canter." the platter are some small round tomatoes of uniform shape which, of course, are made doubly attractive by using soft tint-the croquet balls. The whole dish is ar- ed doilies over the bare table, and by ranged on a bed of watercress or shredded lettuce which will look sufficiently like a green lawn to be attractive.

I give below other designs for the dainty out much expense and which will be pretty for any small entertainment.

For a quiet informal party send out invitations written on the white sails of of a pretty garnish of cress, lettuce, nas-little ships which can be cut from thin turtium leaves or parsley; and one or two cardboard. Another fancy is to send them on cards decorated with pictures of some summer sport, such as croquet, tennis, a comboating or the like. When a party is given in the evening and the lawn is to be used lighted with Japanese lanterns, it is a quaint idea to send the invitation on tiny Japanese lanterns, cut from cardboard decorated with water color paints to look like the real lanterns.

The table can be lighted by pretty candlesticks with shades of the color to harmonize with the decoration. For instance, if the little lakeside centerpiece shown in our illustration, is used, the shades on the candles could be white, decorated with green ribbon or delicate green leaves.

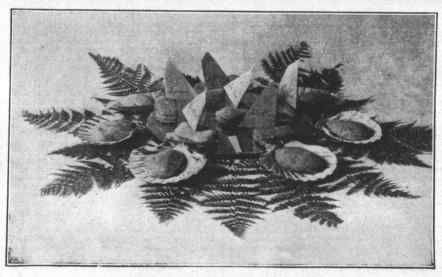
Another pretty arrangement would be a recreation table. For the centerpiece have a small doll's hammock filled with flowers or with little packages which can contain gifts for the guests. To arrange the hammock have two small pans of sand completely hidden under green leaves and flowers. Into these pans sink two small sticks painted white, from which the diminutive hammock can swing. At the places of the guests there can be favors in various shapes suggestive of outdoor sports. There can be a candy box with a tiny racquet ball on top for the tennis player, a box the shape of a ball at another place, or little mallets which, for the dear home folks, or for guests clous dish. Cut cold chicken into dice and when opened will be found to contain bonbons. The bonbon dishes themselves can be little baskets suggestive of fishing farm are the requisites for more dainty milk is hot sprinkle over a tablespoonful baskets and small fish lines can swing dishes than a city hostess can obtain of flour, stirring constantly. Just before from the hands of little dolls arranged on top of a large cake which can be one of the principal courses.

by the guests. One that is simple and setting, some of the simple tastefulness

"Answers. 1. Canal. 2. Canard. the table cloth or on the bare polished Canary. 4. Cancer. . Cancel. 6. Cantable, as preferred. The second picture died. 7. Candle. 8. Candlebra. 9. Can-10. Cannibal. 11. Cannon. Can't. 13. Cantaloupe. 14. Canvas.

The dining room in summer can be having cool green tinted material at the windows. If there is much furniture in the rooms, remove some of it, and a much cooler effect is obtained. Particularly is summer table that can be arranged with- this true of the dining room. Let simplicity be the keynote of summer furnishings and of summer food. The ordinary dishes may be made more tasty by the addition out take out a portion from the center blooms from the garden or a spray of a company sweet, fit for any formal

I give below a number of recipes for



A Novel But Pretty Center Piece

without a visit to many shops. It remains for the country housewife to present these viands in a tasty way and to have her After supper a contest will be enjoyed table show forth, in attractive china and

when they happen in from the next town, cover, in a saucepan, with milk or cream or when the city guest arrives. On the and one or two bits of butter. When the serving stir in a teaspoonful of curry powder mixed with a very little cream. Serve on slices of toast.

Apple Salad.-Select firm red apples, remove the centers, making them into preteasy to arrange is a Canned Contest. which characterizes the city festal board, ty cups. Fill these with apple cut in

#### THE WAY OUT

What to Do When Food Don't Agree.

When food don't agree sensible folks make a change.

Where all others fail Grape-Nuts, being partially predigested and nearly all nourishment, succeeds usually from the

A lady in Washington says: "My baby 19 months old had never seen a well day in her life. She had suffered from indigestion from the time of her birth, and it seemed impossible to find any food to agree with her. She could keep almost nothing on her stomach and she was in such a constipated condition she suffered a great deal.

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dices with an equal amount of chopped glucose or dextrose. celery, mixing both with mayonnaise.

tes add a bit of mystery to any repast into fruit sugar. and are easily made. Croquettes made of ful of currant or cranberry jelly makes a berries, quinces and pineapples. of boiled rice mixed with beaten egg and preserved pineapples or a candied cherry in the heart of each. Serve with a foamy

French Apple Bread.—Stew some apples To one part of apples take ries. very light. two parts of flour, a half yeastcake dissolved, a teaspoonful of salt and a tablespoonful of sugar. Knead well and set to rise for eight or ten hours. If the apples are juicy no other water is needed except what is required to dissolve the yeast cake. Bake in a loaf.

Lemon Meringue Pie.-Put one cup of sugar, the grated rind of a lemon in one cup of boiling water, then add in one tablespoonful of corn starch, dissolved in a little cold water and stir until it thickens. Remove from the stove and stir in one beaten egg and the juice of one lemon. Fill pastry case. Beat the whites of two eggs until stiff, with a little granulated sugar, pour over the top and brown a few minutes. If desired the yolks of two eggs may be used for the body of the pie and the whites for the frosting.

#### SHORT CUTS FOR HOUSEKEEPERS.

When canning tomatoes keep a kettle half full of boiling water on the stove, put tomatoes into a wire basket and dip them into the boiling water two or three times or drop about a dozen of tomatoes into the boiling water and take out with a skimmer. This will be found much easier for removing the skin from the tomatoes than the old way of heating quantities of water and pouring over them .-Mrs. N. V. V.

If young children are troubled with stomach and bowel disturbances during the fall months, instead of dosing them day after day, prohibiting the eating of fruit and putting them on a mid-winter diet just when corn, beans, etc., are at their best, try fastening a bandage of warm flannel tightly over the bowels. The trouble is quite as apt to come from sudden changes of temperature as from any-thing eaten by the little people and the warm flannel will effect a permanent cure while remedies are at best only temporary in their good effect.-L. M. T.

In dish washing turn the handle of the dishpan around from the draining pan and it will save a good many nicks on the dishes .- L. C.

I like to use old black stocking legs for little children's everyday drawers as they are so very easily made and look much neater than white or colored goods. Just cut the stockings off the length required and cut them down from the top long enough for the body part and set in a piece about four inches square. The hem in top of stocking answers for band. never make button holes either, only in center of back.-Mrs. D. L. G.

I tried killing flies with sweetened water on poison fly paper, but the flies would never touch it. After sprinkling a little milk in the dish they ate it readily, and died almost at once, by the dozen.-C. R.

#### FRUIT IS INVALUABLE.

#### BY MRS. ALTA L. LITTELL.

HAT a flat, tasteless diet we would have without fruit, and yet fruit to a realizing sense of what work was. contains only a small proportion of nutrition. Water, from 75 to 85 per cent, sugar, salts, acids and a gelatinizing substance called pectin make up the composition of fruit. The amount of sugar in the fruit determines its value as a nutriment, yet fruit plays an important part in the diet, by cool ng summer, rendering it less alkaline, correcting tendencies to biliousness, gout, rheumatism and diseases of the kidneys, to say nothing of the effect on increasing the flow of saliva and other gastric juices. The organic acids of fruits work these wonders in the body.

The great value of fruit is recognized when we stop to think that in illness where almost everything is forbidden, fruit of some nature is allowed. The amount of sugar contained in fruit, of course, varies, some grapes containing as high as 25 per cent and raspberries as low as 3.95. The sugar is unlike cane sugar, and is known as grape sugar, washenaw Co.

Dear Editor.—Will someone please tell me through the Michigan Farmer how to wash white ribbon and silk so that it will not be cream color?—M. B., Mich.

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Dear Editor.—Will someone please tell me through the Michigan Farmer how to get please advise me how to get paint specific tell me through the Michigan Farmer how to get please advise me how to get please advise me how to get please

fruit, the sugar is largely starch, which Surprise Croquettes.-Surprise croquet- is converted by the process of ripening

The acids differ, too, with the kind of chicken may have a stuffed olive or a bit fruit. Malic acid is found in apples, pears, of pickle in the center of each, or a spoon- red and white currants, blackberries, raspdelicious hidden bit. Rice croquettes made acid occurs in lemons, oranges, lime fruits, gooseberries, strawberries and also raspof botted rice mixed with beaten egg and a little flour and sugar, may hold a bit of berries and quinces. Tartaric acid in preserved pipeannles or a candied cherry grapes, where in the manufacture of wine it is deposited on the inside of the casks and scraped off to make cream of tartar. Oxalic acid is found in tomatoes, plums, until very tender and beat them until gooseberries, strawberries and raspber-

As medicinal agents, fruits are highly recommended by some doctors. Fruit containing oxalic acid, as tomatoes, strawberries and gooseberries, is said to be good for persons subject to asthma and bronchitis; strawberries, raspberries, oranges, blackberries and currants are recommended for rheumatism, because of the salicylic acid they contain; cooked apples are said to be fine for dyspeptics and raw ones are prescribed for those suffer from liver trouble. contain a purgative principle which makes them excellent for those suffering from constipation, and in many homes they are served every morning for breakfast. Grapes are a highly thought of that the "grape" cure is used by many German doctors. It consists of eating one grape every five minutes, and in this way consuming several pounds daily.

A table showing the composition of the

more committel	1 2	TOHOWS.		
	Water	Nitrogen	Acids	Sugar
Pears	83.03	.36	.20	8.26
	83.58	.39	.84	7.73
Plums	81.18	.78	.85	6.15
Prunes	84.86	.40	1.5	3.56
Peaches	80.03	.65	.92	4.48
Apricots	81.22	.48	1.16	4.69
Cherries	80.26	.62	.91	10.24
	78.17	.59	.79	24.36
Strawberries	87.66	1.07	.93	6.28
	86.21	.53	1.38	3.95
Blackberries	86.41	.51	1.19	4.44
Gooseberries	85.74	.07	1.42	7.03
Currants	84.77	.51	2.15	6.38

Woody fibre, ash and non-nitrogenous matter make up the balance.

#### LET THE GUEST WORK.

Dear Editor:-I take it for granted that "Hillsdale's" unwelcome guests and "hanger's on" are city folks, for no farmers' wives or families could think of going from home in mid-summer to stay so long. City women do not realize the work and care on a farm and only see the easy Another reason is, it is so nice to have everything fresh and a quantity to eat, with no thought of expense (to them). We farmers' wives do all enjoy company, at times, but there are a great many now days that just love to be entertained, but when they have company come it's a great burden, and you will hear them say, "Company in hot weather is awful." But if city people or country people go visiting they must expect to have their visits returned.

A lady of my acquaintance has entertained city folks a good deal. So she thought she would take an outing and visit a city she never had seen. When the visit, which consisted of two and a half days, was about ended, someone said, "Never thought you would come down here."

But if you were to stay two or three weeks, as they do, you would soon hear how it costs to live. It costs farmers, too, but you don't hear them mention such a thing to company.

I think a good plan would be for this tired mother to set these hangers-on to work and tell them she must rest for a Let them get the dinner and lo the work a few times. They would come

No! A thousand times no. We are under no obligations to entertain those we do not care for. We all really enjoy company at times. At least I do. It's a change and one feels better for doing something to please others. But we do mportant like to feel that we are as welcome in blood in their homes as they feel in ours, but it is seldom so. Now, tired mother, I am sorry for you, but let them get in the harness by doing the baking in a hot Hope someone else will give a nters. Here's hoping you are kitchen. few pointers. resting.-Michigan.

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# HOME AND YOUTH

THE FAIR WEATHER PROPHET.

BY ALONZO RICE

BY ALONZO RICE.

I love the weather prophet who is prophesying "FAIR;"

Though rain is pouring from the clouds, he finds a rainbow there!

He shuts his eye against the sky that looks a little black;

His face full-fronts the dawn of day, the night is at his back.

When heavens all seem dropping, and there's tempest in the air, I love the weather prophet who is prophesying "FAIR;"
For his sunny expectations make me for a while forget
My umbrella's wrong side out, my slippers wringing wet.

A cheery note is in his voice, like any bird's as gay,
And in his kindly features beams the sunshine of the May.

I love the weather prophet who is prophesying "FAIR;"
Themometer marks "ZERO"—he has Themometer marks "ZERO"—he has "SUMMER HEAT" to spare!

Then let the blizzard bluster and the rain torrents fall;

in torrents fall;
He's my nearest, dearest neighbor and
I'll live throughout it all.
I greet him with a glad "Hello!" that
prince of men; I swear
I love the weather prophet who is prophesying "FAIR."

#### THE CURIOSITIES.

BY HOWARD DWIGHT SMILEY.

"I wish something'd turn up to furnish a little variety and diversion in this here camp," grumbled Charlie Christie, as he tossed the carcass of a dressed muskrat into the soup kettle and reached for a "We've got things syspelt stretcher. tematized down to the extent that I fell like I oughter wind myself up every morning like a clock, just to keep going. I'd like to see a curiosity just once more before I die."

"What you call 'em curiosity?" inquired Injun Pete, whose education hadn't extended beyond the boundaries of the big woods, and was mainly Chippewa.

"Why, anything; just so's it's out o' its regular environment," answered Charlie. "For instance, that critter up there is a curiosity," he added, pointing to a big porcupine that sat on the limb of a tree at the edge of the clearing, making a lunch off hemlock bark.

"I can't see the connection there," says I sarcastically. "Seems to me they're too uncommonly numerous and pesteriferous 'round here to be classed as curiosities."

"Certainly, certainly," returned Charlie calmly; "a curiosity, like a prophet, is not without honor save in his own country. That critter would be the biggest kind o' a curiosity if you'll put him where he don't belong-That's a good definition-A curiosity is something that's where it don't belong."

"Humph! You crazy!" grunted Pete.
"I ain't either," contradicted Charlie
indignantly. "Now just for instance, s'posing you should slap that hemlock down on Broadway, New York, with the porky setting on his perch-Why, they'd have to call out the police reserves and the state militia to fight off the mob that'd gather 'round to view the curiosity!"

"Humph!" grunted Pete again.

"Now, on the other hand," persisted Charlie, "I've read in the papers that them horseless automobiles are just as pesteriferous along Broadway as the porkies are up here in the big woods. They're always getting underfoot and overfoot and doing damage to human anatomies and one thing and another until all the folks down there hate 'em worse'n a wolf hates poison; but s'pose that one of them machines should come cavorting down through this here clearing, what'd be the result? Why, you and me and Pete would rise up on our hind legs and open our eyes and mouths and stare in plumb amazement—w'd be viewing a curiosity!"

"Now, on the other hand, thinking to put a crimp in Charlie's philto be a polecat, 'stead of a porky, would

"What you call 'em horseless automobile?" inquired Pete, always ready and Paul Kratt's homestead, about ten mile Charlie tumbled into the one on the oppowilling to learn.

off short as we all sat up to listen. Far off down the trail from the direc-

tion of Winona was coming a curiosity. "Honk, honk!" it says.

"Flying too low," says Charlie. "Sounds brought it up tied to a stake in his back like it was right on the ground."

"HONK, HONK!" says the curiosity again, this time so loud and close that me and Pete and Charlie all got jambed in the shack doorway as we jumped for our guns.

A big timber wolf went streaking across the clearing with its tail between its legs, traveling so fast that its yelp of terror didn't come along until ten seconds later. It was followed by a couple of deer that didn't even hit the high places as they sailed by, but seemed to take the clearing at a jump and disappeared in the wake of the wolf. Plainly consternation reigned amongst the wood folk.

By this time we could hear something going "chuggity chug chug, chuggity chug chug," and a second later here she came around the bend of the trail and up through the clearing like a house afire.

Mr. Porky on his limb took just one look, curled up in a ball and made the drop of twenty feet to the ground without a whimper. He hit it with a loud dull thud, bounced three feet into the air, came down running and lit out after the other folks hotfoot.

In the meantime Pete disappeared under the bunk-and Pete's a brave Injun at that.

I glanced at Charlie. He had an expression of blank amazement on his face that would 'a' ba'ffled a Webster to describe.

"Speaking of coincidences," he murmured as the machine fetched up with a jerk right in front of the door, "this beats anything I ever bumped into. Here's your curiosity, Joe."
"Two of 'em," I says, looking at the

occupant, and, if anything, he was the bigger of the two.

"Is this Joe Beam's homestead?" he inquired, looking out at us through a pair of miniature washtubs set with glass bot-

"Thats me," I answered.

"The superintendent of the Winona mine directed me here. I've come out for a hunting trip and he said you could put me up and act as my guide.

He hopped out of the machine while he was speaking and came toward us. I couldn't help snickering when I saw his duds. He had on one of them yellow canvas suits that rustle like the dead leaves of November and smell like a country drythe game within a radius of two mile hundred years, and his notions of popuflagged, and he'd be lucky if he got close lation were built according. enough to a chipmonk to knock it over. Still, business is business, and guiding bear or some other ferocious beast under any superfluous remarks.

thing to hunt except partridge. The deer season ain't open, and-"

"Oh," says he, dismissing deer and partridge with a sweep of his hanr, "I the grass. ain't after that kind of game. What I thing smaller'n a bear!"

If, there'd been any bear circulating around this particular vicinity for the year or two they had eluded my eagle eye. Hadn't seen a sign of the critters anywhere, and was just about to tell him so when he continued.

"Of course I don't s'pose it'll be an easy once. Still, that's what I'm after and if you fellows can get me a pelt to take thing almighty interesting. Why, when home I'll give you fifty dollars to divide up between yourselves."

and Pete crawled out from under the little tales you can see, hear, smell and bunk and looked at both of us and the feel 'em, under the bed and under the automobile all at the same time.

offered fifty thousand instead of fifty we just outside the shack door, ready to dewouldn't have been able to pull down the vour you the minute you stick your head

"Say," says Pete suddenly, "how about osophy, "Just s'pose that critter happened ol' Jim? Him got plenty heap good pelt." night and by bed time had York so ner-"Why, that's so!" exclaimed Charlie vous and fidgetty that he didn't want to slapping his knee. "Why, Sure! It'll be turn in at all. Charlie assured him that

south of here. He don't know much, to site side. "Why, it's a-" began Charlie and broke speak of, but I'll bank on it that he can furnish that pelt all right."

and swallowed it just in time to keep it ous objection. It seems that York, by from bu'sting, for, as a matter of fact, way of attracting attention had tossed "Now, what the hotel is that?" I in- old Jim was a black bear that Paul had one of his boots into Charlie's ear.
uired. snatched away from its ma when it was a "What's that noise?" inquired York in

For years Jim had been Paul's bosom pet, but of late he had become old and decrepit and considerable of a nuisance. He had scratched about two-thirds of the hair off his hide and had lost all his teeth, so that Paul had to feed him on corn meal mush and soup, and altogether he was more bother than he was worth Although we didn't express our views out loud we were all of the private opinion that Paul would part with his pet cheap and be glad of the chance.

Charlie gave me the wink and while he helped Mr. York unload his wagon I hustled Pete down to the spring.

"Now, Peter," says I, "it's up to you to make a quick hike for Paul's homestead. You tell him we sent you and that we want to buy old Jim at his lowest possible figure. Now you move fast and get that bear here as quick as you can. You'd ought to make the trip so's you'll be back here some time tomorrow morning.'

"Uh huh," grunted Pete. "What I do

"Tie him to a tree down at the north end of the lake. Then come into camp and explain to us that old Jim couldn't come, but that you noticed fresh bear sign back the trail a bit. That'll be our cue and me and Charlie will start with York around the west side of the lake and as soon as we are out of sight you make a sneak back to the bear.

"Me and Charlie will manoeuvre York around to the north end and when you see us coming you take off the bears collar and start him off in our direction. We'll spot him all right and sick Mr. York onto him, and, as it ain't likely that Jim will try to run away, there won't be much trouble killing him. Then it'll be

all over but collecting the fifty. See?"
"Uh huh," answered Pete and started off without more ado.

Me and Charlie turned too to entertain our guest and keep him amused until the psycological moment should arrive. He was an interesting character, to say the least, and as we drew him out I began to really understand and comprehend Charlie's definition of a curiosity.

This was his first trip into the big woods and he was naturally nervous and apprehensive and had abnormal ideas of everything in general. He'd come from a large city where you can see more people in goods store. That outfit would have all ten minutes than you can up here in a

He really believed there ought to be a nimrods is part of mine, so I didn't make every bush and behind every tree, and governed his action with that idee in "Reckon we can accommodate you," I mind. He didn't venture far from the says; "but you won't find much of any- shack for the balance of the afternoon, and only when accompanied by me or Charlie, and even then he'd shy and jump every time a chipmonk rustled through

Of course we took particular pains not want is something big and ferocious, to disallusion him. It's part of the game that'll let my friends know that I have to let a nimrod believe that his views are really been hunting. I don't want any-correct, for if he should discover how really tame the big woods are when you once come to understand them, he'd be liable to get discouraged and hit the back trail for home.

So after supper Charlie settled down to business and let out a few bear stories.

Now I suppose any one can tell a bear story but I want to state this: when Chas. matter to stir up a bear; I guess they H. Christie opens up on a tenderfoot and ain't so thick around here as they was relates a few of his original adventures with the tribe of Bruin, you hear somethat man gets his wind and opens wide p between yourselves." the gates of his imagination he has 'em I looked at Charlie and he looked at me all around you. Whilest he relates his table and right alongside you, and you We didn't say anything for we all knew know beyond the shadow of a doubt that was a hopeless proposition. If he'd there are at least a dozen of 'em waiting

"Well, Charlie did himself grand that the result be the same?"

"That," returned Charlie, without bat- a cinch getting that bear, Mr.—er—"

"York," saye he. "I'm from Pittsburg. he had nothing to fear so long as we had the door barred, and finally prevailed on "Oh, he's an old codger who lives on him to roll into Pete's bunk, while me and

I'd been asleep for about two hours when I was awakened by the sound of I caught a snicker between my teeth Charlie's voice raised in loud and vocifer-

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"Sound 'em like goose," suggested Pete, cub, about fifteen years back, and had an awed whisper, as soon as Charlie let THE MICHIGAN FARMER, Detroit.

in a word edgewise.

It was a loud scratching and rattling on the roof just over our heads that he had his appreciation. reference to.

a little. "Why, that's a curiosity." "A what?" asked York, still in a whis-

continuing, when I gave him a poke in That pole was a favorite perch of theirs the ribs to shut him up. I saw an opening

for a good joke. out of bed and lighting a candle. "You show you whether I'm a coward or not," get up and dress and we'll go out and he added to me. "If you come out there kill him."

"Not me," answered York, quick and decisive, just as I expected he would. But, of course, if Mr. York cares to join "You put out that light and get back me, he's welcome." You put out that light and get back into bed and take a gun and sit up and watch that door and see that none of 'em get in here! You don't get me out there tackling a bear in the dark! Is that window all right? Ain't there a cellar or something we can get into where we will be safer than here? Oh, Lord! Can't you do something?" he chattered all in one breath.

"Be calm," says I, "be calm. Get on your clothes and come along. If there are any bears outside, now is as good a time as any to make a try for that pelt."

plumb out of his wits. "Don't you dare ment is more than I'll ever explain, but open that door! If you do I'll-I'll-Oh, there he was and he and Charlie mixed it Lord!" and he ducked under the blankets up generally for several seconds. Then, as I begun to unbar the door.

"Oh, come along," says I impatient like. right back into the shack. "There ain't nothing to be afraid of. They can't do more'n eat us up."

"I d-d-don't want to be eat up," chats-stay ri-right here wh-where you b-b-be- hold it. long and let them b-b-bears alone!"

"Oh, well," says I, grabbing up a .44 Colt in one hand and a skinning knife in for breath. As it grew light I noticed the other, "if you're afraid I s'pose I'll that he was scrutinizing me rather closely. have to tackle 'em alone," and with that "Where'd all that blood come from?" I ducked out the door, slamming it be- he demanded suddenly.
hind me. "Why—why—" says I, taken off my

Just as I thought, the critter we'd heard on the roof was a porky. He was sitting of course." on the peak, pensively munching the ridgepole and I dropped him with one shot. ed on the ground at my feet and immediately Fout loose.

York must 'a' thought there was something doing sure when he heard the the big woods. threshed the bushes with it, whacked the side of the shack with it and between every whack I yelled appealingly to my friends inside to come out and save me.

Then after a spell I quieted down and dragging the porky to one side I ripped it open with my knife and smeared some blood on my face and hands, just to look realistic, heaved the carcass into the any longer under any consideration!" bushes and snuck around to the door to listen to particulars. York was talking to shoot that bear?" thinking of Pete and to Charlie from under the blankets as I old Jim. could tell by the muffled sound of his voice

this is awful," he was saying. "Why on earth don't you go out and help your pardner? Them bears are probably get up and bar that door? They'll be gazed after him brokenly heartedly as after us next."

"No they won't," says I as I opened the perspiration. "There was only one and I

Charlie sat up with an exclamation of one hand. - eal concern on his face. "You ain't really "What me real concern on his face. hurt?" he asked anxiously.

That made me so stuck on my make-up that I almost snorted. I got my back to York and wunk at Charlie.

"I'm most killed," I informed him, letting off an awful groan. "He most him off in the end, thanks to myself and got 'em tie to tree back here in wood." none to you. You're two of the one of cowards that ever chawed bacon. Why didn't you come out and help me?"

lligerently. "If a great big overgrown man in the train who said to his neighman like vou can't handle a bear single- bor: handled he'd better get out of the woods.

I can continue doing so," and with that I slammed the door and blew out the light and jumped into bed.

otony, this little diversion was the big- farmers' gatherings of any kind, if those gest kind of a circus for Charlie, and for interested will let us know.

up cussing long enough for him to squeeze the next two hours he lay awake and chuckled and giggled and, ever and anon, gave me a whack in the chest to show

"Curiosities!" he'd whisper. "That?" answered Charlie calming down sion! Variety! All in a bunch! Ain't it great, Joe? Wish we could do it again."

He got the chance about an hour before daybreak, when another porky went "Otherwise known as a-" Charlie was scrambling up the roof to the ridgepole.

Charlie, as soon as he heard it, bounded out of the bunk and lit the candle. 'My "I guess that's a bear," says I, hopping turn this time," he loudly whispered. "I'll and interfere with me I'll shove you right down the throat of that bear, understand?

"No siree," answered York from under the blankets. "You couldn't drag me outoutside this place with a locomotive. Don't you dare open that door either! If you do I'll-I'll-Oh, I wish I was home!" he wailed dismally.

Charlie gathered up his weapons, yanked the door open, bounded into the night with a blood curdling yell and landed with both feet kerslap right on top of -the exception that proves the rule.

Why, oh, why, that blame critter should have been right out there in our front "Don't you do it!" rattled York, scared dooryard at that particular critical momake matters worse, Charlie came

Let us draw a wire mattress over the next hour-I would have said veil under ordinary circumstances, but the veil was tered York from under the blankets. "You never made that is strong enough to

> Daybreak found me and Mr. York down at the south end of the lake still gasping

guard, from where the bear scratched me,

"I can't see any scratches," says he suspiciously. "Looks to me like that blood Down he come- bumpity bump, and land- had been daubed on with your hand." He reached over and felt of my face. "Why, you ain't hurt at all!" he exclaimed indignantly.

Well, he had me dead to rights so of whoops, bangs, yells, growls, screeches course I had to 'fess up. I explained to and howls than rent the still silences of him how it had only been a little joke and I grabbed the axe and that there was no harm meant.

But did he take it that way? Oh, no! He rose up on his hind legs in wrath and indignation and read the riot act to me and when he had finished he turned on his heel and started toward the shack.

"Where're you going?" I asked. "I'm going home!" he snapped. wouldn't stay in this blankety blank camp

"But ain't you going to stay long enough

"Blankety blank your old bears!" he roared back. "I don't believe you've got such a thing in these woods!"

And that settled it. Away he went, chuggity chugging across the clearing and

And, to cap the climax, we hadn't any door and staggered in, dripping blood and more'n got the chug of his machine out of ears when here comes Pete around the back of the shack, holding his nose with

"What matter?" he inquired.

Charlie explained. "Honk, honk!" says Mr. York faintly from far down the trail.

"And there goes fifty good iron plunks,"

says Charlie mournfully. "Huh!" grunted Pete. "Me give 'em clawed the hide off'n me, but I polished Paul feefteen dollar for ol' Jim, an' me

A distinguished senator, discussing a certain monopoly, said, with a smile: "Who's a coward?" growled Charlie be- "This company reminds me of the old

"'Would you mind lending me your

handled he'd better get out of the woods.

The idee of calling on us for help in a little thing like that."

"If you'll shut and bar that door I'll swered and help you dress your wounds," old to go it alone outside and I reckon I can continue doing so," and with that

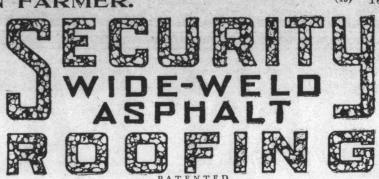
"Would you mind lending me your specs, si?"

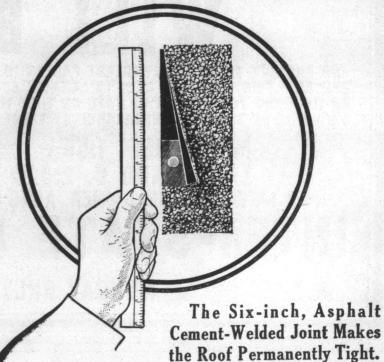
"Why, certainly,' the neighbor answered and he took off his spectacles and surrendered them with a courteous gesture.

"And now,' said the old man, 'since you'd an no longer see to read your newspaper, I'm sure you'll be willing to let me run my eye over the sporting pages."

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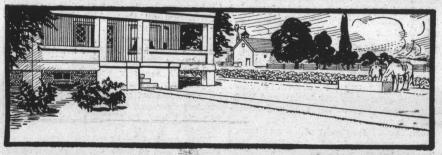
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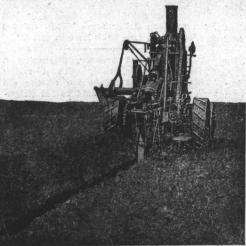
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