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FARM NOTES.

Last fall we fall plowed eight acres for alfalfa. In the spring we weakened and sowed four acres to oats, the other four to alfalfa on June 22. The alfalfa is growing well. Have just plowed oat ground, a rolling gravelly soil. Would it be advisable to sow alfalfa now, or leave until spring, or would clover and timothy be better?

Livingston Co. G. B.
In the writer's opinion the success. Late Summer or Fall Seeding of Alfalfa.

In the writer's opinion the success of an August or early September seeding of alfalfa would depend very largely upon the proper preparation of the seed bed the available moisture in the soil for the quick germination of the seed and the rapid growth of the young plants. The ground, if plowed after oat harvest, should be repeatedly rolled and harrowed to get a good firm seed bed before the seed is sown. Then if there is sufficient moisture the seed will germinate quickly and the young plants will make a good growth before winter. If, however, the seed bed is not properly prepared and if the moisture conditions are not right, it would doubtless be better to let the field

lie until spring before sowing the seed.

The writer tried August sowing last on land that had been cultivated since early spring to get it as free as possible from weeds. We waited for rain until it was getting so late that it seemed necessary to sow the seed without further delay or wait until the following spring. On the advice of the director of the Michigan Experiment Station the seed was drilled in an inch or more deep, instead of sowing broadcast as we had intended. This put it down where there was plenty of moisture to insure germination, and the result would probably have been satisfactory, had it not been for a shower which crusted over the surface of the ground a few days after the seed was sown. The stand secured, however, was not satisfactory, owing to the fact that the tender plants could not penetrate the crust, and were so far advanced in germination that we thought it unsafe to harrow the field. On the ends where the land had been packed quite hard by turning the team in the earlier cultivation, however, the stand was good, and there was a thin scattering of plants over the entire field. These plants made a good growth before winter, and practithe winter, which demonstrated that, unwithout killing out.

fall seeding, but the majority of Michigan pests is likely to prove more satisfactory. the soil moisture through capillary at-

growers who have experimented with dif- It cannot be used in sufficient quantities traction. ferent methods seem to favor spring or to kill out noxious weeds without deearly summer seeding. In some trials stroying the productivity of the soil for made several years ago at the Michigan a considerable time, which would be unstation, early seeding gave better results profitable. Lime, on the other hand, is in some seasons and late seeding in oth- a valuable soil corrective. It will sweet-

me seasons and late seeding in oth- a valuable soil corrective. It will sweetOne advantage in late seeding is en the soil if it is in an acid condition if the advisable to sow the same in August or early September?

Tuscola Co.

R. S.

Laying Tile Drains in Swamp Land, (See Reclaiming Waste Land.)

that the weeds will be less troublesome, and make it a more acceptable home for which fact has made fall seeding popular in the western and southwestern states where alfalfa is extensively grown. However, it is more a question of suitable conditions for seeding than of the crop will undoubtedly be handicapped by late sowing.

Salt Versus Lime for the Soil.

Have a piece of sandy land, on which I am thinking of using salt. Please tell me how much I ought to put on per acre, and would the results be sufficient to pay for putting it on? Also how much would it take to kill milk weeds and how long would it be before the land would be fit for use? In using lime how much ought to be used per acre?

Otsego Co.

H. K. B.
Salt is not in any sense a favillary acre.

Salt is not in any sensé a fertilizer, nor cally all of them seemed to live through even a soil corrective. While some farmers claim to derive a benefit from its use open soil will not produce a noticeable der favorable conditions, alfalfa sown late in the getting of a stand of clover, its degree of sourness. The writer has used in August will come through the winter only profitable use in the writer's opinion rye as a green manure without any bad is on land badly infested with cutworms results, other than the risk of dry lands. Discussing the purpose of net-The writer has known of a number of or wireworms, and even in such cases weather when it is plowed down, in which

the clovers and other legumes, and will be of value as a needed plant food on some soils that are exceptionally low in their content of lime. From one-half to one ton per acre of caustic lime, or say of year, and unless the seed bed three or four times the amount of ground is in proper condition and the moisture limestone should be applied, where it is conditions are right the success of the determined by testing the soil or by an experimental application that lime is

Rye As a Crop for Green Manure.

Please advise in your columns if rye plowed under green, will sour the land. Have been told it would. been ry Co. Barry D. V. H.

Large quantities of green vegetable However, rye will contain a large proportion of fiber when plowed down in the spring for late planted crops and on an

An application of lime, which would be profitable on many if not most worn soils, would correct any tendency toward acidity in any event.

This seed should be sown as soon after the middle of August as the seed bed is in proper condition and the moisture conditions are right for the quick germination of the seed and the rapid growth of the young plants. The earlier the seed is sown the better will be the growth of the young plants and the stronger their root development to survive the winter.

RECLAIMING WASTE LAND.

The great increase in the value of farm land, has set men to work improving the soil's fertility on land long cultivated, and reclaiming thousands of acres that have hitherto been considered unproductive and worthless for agricultural pur-

On many farms there are acres of wet, boggy land; covered with hummocks and over which cattle cannot roam without sinking into the mire. It cannot be plowed or cultivated nor converted into meadow land, because the soil is sour, and only wild grass, rushes, and a few straggling weeds will grow. For pasture it is valueless as it is under water in the wet seasons.

Farmers are beginning to find out that these frequently submerged lands can be the richest and most productive acres of their farms. For years and ages fertility has been leaching away and running into such places until the black, rich soil has become several feet deep and its wealth of plant food practically inex-haustible. These waste places are now being reclaimed by digging deep, open ditches and running tile drains into them. In many instances the returns pay several hundred per cent on the investment. matter have a tendency to cause an acid Land that was worthless, by this treatcondition of the soil when plowed down, ment becomes worth \$100 an acre and Forty dollars for tiling often more. doubles or triples the value of the land.

Professor A. Marston of the Iowa college of engineering, an expert on tile drainage, shows how and why tile drains are indispensable in low and swampy working our fields with these miniature



Curing Hay Under Hay Caps at Lillie Farmstead, Ottawa County, Mich.

firm, enables earlier cultivation in the field where I planted three barrels of tonnage. tivated earlier than high ground not chased from the Maine Experiment sta- pastures. The extremely hot dry weather drained.

Careful observations have shown in promoting the germination of crops.

3. Tile drainage removes from the pores of the soil surplus and stagnant water, which would drown and destroy the roots of plants.

4. The drainage makes certain proper tion of air in its pores which is essential to healthy plants.

5. Tile drainage establishes in the soil the proper conditions required for the satisfactory carrying on of the chemical processes necessary to prepare the plant food for its use by vegetation.

6. Tile drainage fits the soil for the vigorous life and action of the soil bacteria which are essential to preserve and moist and nice and only two seeds gerincrease its fertility and promote the growth of the crops.

7. Tile drainage increases the depth of the soil which can be reached by the roots of plants and drawn upon for plant

Because in them the roots of plants can penetrate deeper, where they are protected from the heat and drougth and can reach the deep seated moisture, the drained soils stand drouth better than undrained soils.

9. By putting the top three-foot or four-foot layer of soil into a porous condition, tile drainage enables soils to absorb rain water instead of discharging it over the surface and so helps to prevent water wash and constant loss of fertility.

10. By causing this porous condition, the drainage makes the upper three or four feet of soil into an enormous reservoir to eatch the rain water and discharges it slowly into the streams. Thus tile drainage prevents floods instead of making them.

Tile drainage does away with irregular shaped fields, cut up by sloughs and so cheapens cultivation.

All of which reasons go to show that tile drainage is a paying proposition. EUGENE J. HALL.

LILLIE FARMSTEAD NOTES.

Summer Silage.

This is the first year we ever had silage enough to carry us through the summer. Last year the silage gave out on the first day of August. Today, the 7th day of August, we still have four or five feet in depth in the bottom of the 50-ft. silo, which is 15 feet in diameter. There is certainly enough to last us all of this month and without doubt part of next month; certainly until we get rains which will green up the pasture. The cows are now getting, and have been for several weeks, a scoop shovel full of corn silage every night and morning with a little grain and then a light feed of hay. The fact is it is necessary because there isn't anything for them to eat; that is practically nothing, although they pick a little. Our pastures are in as good shape this year as they ever were at this time of the year, owing to the fact that we did not turn them into the pasture quite so early in the spring and they were not grazed so short early. That makes a great difference in the postures lasting.

Cows on Vacation.

At the present time we have several cows taking vacation. We have them in the back pasture. There is plenty of dry in until June and we could have cut a think, to the fact that it was not propsuch as it is and the cows are doing well, seemingly. They are off out of the way and it will save the corn silage for those that are giving milk.

Potato Prospects.

Potato prospects in this locality and on my own farm in particular are not very promising. I have a poor stand. The seed was poor, it didn't come up. condition, yet some of it was affected earner and spreading it on the barn moor to make a life tolling of the which or granary floor, and perhaps spreading and on the other piece that I put into contains material which is of no value, it a little thinner, and yet the poorest beets I have a good stand of sugar beets as ground limestone and lime dust does.

Low ground drained can be cul- Green Mountain potatoes which I pur- Everybody is complaining about short tion. These were lovely looking potatoes. has used up the pasture. Even where I spread them out on the upper floor of people depended upon the second growth that the tile drainage makes the soil the hog pen so that there was only one of clover to get pasture at this time of the several degrees warmer in the spring, potato in a place. Large, healthy look- year they are disappointed, owing to the Scientific tests have shown this increased ing, green sprouts started out on them poor second growth, and the permanent warmth to be of the utmost importance and I expected a good stand from these potatoes, but they are about the poorest dead. Of course, a good soaking rain on the field. This is something I cannot understand. It may be that it was not so much the seed as it was the extremely hot weather. We didn't plant until well towards the latter part of "breathing" of the soil, or free circula- June and the ground was simply hot, and I look forward to a good crop. After we planted a portion of the field we had quite a nice shower and I thought perhaps those that were planted before this shower would come up better. They did not. One reason I think it was the hot ground that had something to do with the sprouting of the seed is because after this shower I planted garden beans in the garden. The ground was minated and came up. Now I know this was good seed because the same seed planted earlier in the season and seemingly every seed germinated and I am of the opinion that the extreme heat had something to do in destroying the germinating power of the bean seed and also of the potatoes.

Second Crop of Alfalfa and Clover.

When we were about half through haying we had a fairly good shower of rain and I was in hopes that it was sufficient so that we would have a second cutting of alfalfa and possibly red clover, but the weather conditions since then have been such that very little growth has been made. It was so hot, and there has been no rain since to speak of, that this shower did not seem to have the effect that one would think. The consequence is that there is not a very healthy growth of either red clover or alfalfa. I don't think either one of them will pay to cut. In some portions of the field there is quite a little growth but on other portions there is scarcely. anything and consequently I do not believe it will pay. The alfalfa I think I will clip and leave on the ground, setting the cutter bar quite high, as I understand that it ought not to grow too long without clipping. With a good rain now on the red clover meadow I possibly could get a second crop later on. I remember one year when this occurred. A rain in the middle of August or the latter portion of August gave us a nice cutting of clover hay in September, but there is one thing I am surprised in and that is the red clover has made fully as good a second growth as the alfalfa. course, we all expected that the alfalfa was a plant which would come right up after it was cut and we could get three or four crops a year. Perhaps we can after it once gets well established. Perhaps the roots are not down to permanent moisture yet, so that it can grow during hot, dry weather. It has been no more a success for a second or a third cutting that the common red clover has I am in hopes, however, that by next possibly, it will be well enough established so that we will get a second crop. There is one lesson you learn when you sow a field of alfalfa and that is that it wants to be thoroughly tiled. On one field a portion of it is a fairly good stand, on another portion where the ground is a little bit flat and yet it is not seemingly wet land, the stand is not o good. Twenty years ago when I tiled this field I didn't consider that it was stand of alfalfa, due almost entirely, I plow up next spring and plant to corn.

Poor Oat Crop. section of the country. it came off very hot and dry. Oats made a poor growth and owing to the extreme What the trouble is I do not know. The and are light. This has been a poor oat most of the seed, seemingly, was in fair year and nobody is to blame for it. Some fields of oats are hardly worth cutting. with dry rot when we planted it. I I am pleased to think that I plowed mine think I could have improved the seed up and planted to corn, because I have a by taking it out of the pit a little bit good crop of corn on one field it is going earlier and spreading it on the barn floor to make a nice tonnage of corn silage,

pastures of June grass are seemingly would revive them, but when will We have had a couple of light come? showers and I though perhaps the drouth was broken but it did not rain enough. Corn, however, has stood the drouth well

COLON C. LILLIE.

LIME FOR ALFALFA.

I have a field which I wish to seed to alfalfa next spring. The soil runs from clay to a very light loam and is in a fair state of fertility. The field at present is growing a crop of beans which have received very thorough cultivation and bid fair to yield a good crop. I expect to lime the soil, also inoculate by soil taken from an alfalfa field and treat seed by culture method also. In the use of lime would it be advisable to apply the lime this fall, after the beans are harvested, thoroughly harrowing it into the soil, also scattering the inoculated soil and working it into the ground at the same time? Would there be danger of loss in the lime by leaching and washing during the winter and early spring months? As to the lime to buy. I can buy the limestone screenings at 35c per ton, the ground limestone at \$5.00 per ton?. O. b. quarry. The screenings run from pieces the size of a kernel of corn to a fine dust, probably 10 per cent of the bulk is dust. If the screenings were applied this fall at the rate of two tons per acre, the action of the frost on the small lumps, together with what fine dust there was would afford enough available lime for the use of the young plants. Am I right or not? I understand the finely ground limestone would become soluble much sooner than the screenings, but would not the screenings applied in the above way at a much less cost, and at a time when the pressure of work was not so great as in the spring, answer the purpose fully as well and remain in the soil longer than the finer lime? Would raw rock phosphate (not acidulated rock) contain enough lime for the use in liming soil for alfalfa and would it not have some fertilizer value in stimulating the growth of the young plants also? Would it not be advisable to sow rye on this field this fall as a cover crop and turn it under in the spring about 4 in., with a gang plow?

Barry Co. Subscriber.

I think without any question that whatever kind of lime you use the best time

I think without any question that whatever kind of lime you use the best time to apply it is this fall after you harvest the beans and work it into the surface soil. There isn't any danger of lime leaching out of the soil. It is fixed in the soil by nature so that there is little or no danger of lime being lost. One need not hesitate a particle on this point. Now as to the kind of lime to use. Lime screenings, of course, is quite an indefinite article. One scarcely knows what to advise. I should think that lime screenings would be just about as valuable as the lime-stone, except, of course, the coarser portions of them which are as large as kernels of corn and it would take a long time for this to become available, but the finer part and that which is as fine as dust would become available very soon. At the price named of 35c per ton at the quarry, if you live within hauling distance, could -not, of course, be duplicated, nor this opportunity to get lime for your soil pro-viding your soil needs it. The ground limestone is not too fine. They haven't got a machine yet, I understand, which will grind it as fine as it ought to be ground. The only advantage I think you would have would be that the ground limestone would be more uniform in size. Part of your screenings will run coarser than the ground limestone and much of necessary to tile that portion of it all, it runs finer, but it would average, I but here is where we have the poorest think, fully as fine as the limestone you want. Of course, if your soil is acid good crop of hay on a portion of it. erly drained and I shall go to work and ings will not correct the acidity as quick-While of course this is not so palatable as While of course this is not so palatable as will leave to alfalfa and see what it verized burned lime is the most effective it ought to be, yet there is plenty of it will amount to; the rest I will have to from any standpoint. Of course, when you take into consideration that in burning the lime you drive off all the mois-We have a poor oat crop in the entire ture and all of the carbonic acid, reducing The ground was the weight about 40%, the price of pultoo wet when we sowed the oats and then verized burned lime is not so excessive. compared to lime screenings or ground limestone, as one would at first think. hot weather they did not properly fill Especially is this true where the freight bill is quite a considerable item of the expense. If the lime has to be shipped for a considerable distance this ought to be taken into consideration and the product which is materially reduced in bulk and heft is worth much more ton for ton than the one which is bulky or one which

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Of course, some argue that in using caustic lime or ground burned limestone there is some danger of destroying humus of the soil and undoubtedly there is if excessive quantities of it are used. one did not use over a ton or a ton and a half and perhaps two tons of burned pulverized lime to the acre there is no doubt in my mind that one would never know the difference with its effect upon the humus of the soil. Should one put on in one application several tons of caustic lime per acre there might be danger of destroying the humus, but where an application of 1,000 lbs. to one ton or even more is used I do not think that we need hesitate very much about using it.

Ground Limestone at \$5.00 per ton f. o. b. the quarry is a pretty good price. It can be purchased for less than that. That is about the price of pulverized burned lime, but the lime dust, it seems to me, is a very reasonable price.

Now, while I would apply the lime this fall and work it into the soil, I do not believe I would apply the inoculated earth that you get from another alfalfa field until next spring. You want these bacteria to go to work just as soon as the young plants start and I would wait until just before I sowed the alfalfa, then just as soon as the plants begin to grow and the roots reach out the bacteria will be of benefit to them and they certainly could not benefit the soil very much during the winter. The cover crop is always valuable. If this land is left exposed during the winter, if the winter happens to be an open winter, some of the soluble nitrogen in the surface soil which is left from the bean crop will undoubtedly leach, if the soil is in any way leachy, so I think it would be a splendid thing to seed to rye and then plow down the rye in the spring and fit it at once and seed your alfalfa, using inoculated soil. COLON C. LILLIE.

A SURE METHOD OF ERADICATING CANADA THISTLES.

Not a month passes but some one has a remedy or makes inquiry as to the best method of eradicating thistles. In our forty years of experience on the farm we have found nothing as an implement for this purpose that equals the gang plow. It matters not how badly infested. Plow the field in the fall and as soon as possible in the spring brush it over with a spring tooth to level it. Then as soon as the thistles begin to appear go over it with the gang plow crossing the furrows of the fall plowing. See that the points are new and sharp and set the plow just deep enough to turn a furrow. Wait until the thistles start again, then plow it again crossing the first plowing, setting the plow a little deeper than at first. If the thistles persist in showing, go over the field again, still setting the plow a little deeper than before. You will see that if no balks are made every thistle is cut off below the surface. Finally put in a hoed crop, keep clean and my word for it, it will give the thistles a bad setback.

Genesee Co. S. C. GOODYEAR.

SEEDING ALFALFA AFTER WHEAT.

I have a field of seven acres that was seeded to red clover and timothy in the wheat last spring. Owing to the drouth the clover is dead. How will it do to plow same, fit well and sow to alfalfa with a few oats? It will fit well and I can sow early in August. Would sow about 15 lbs. alfalfa per acre. I might add that the wheat yielded a little over 50 bu. per acre.
Cakland Co. C. E. H.

Seeding alfalfa in August depends almost entirely upon the moisture. If there is moisture enough so that you get good germination and enough afterwards to keep the plant growing usually it will make growth enough so that it will withstand the winter. trouble. My first field of alfalfa was seeded in August. We didn't have sufficient amounts of rain to insure germination until along the middle of August. It grew to be 6 to 8 inches high and withstood the winter, although it wasn't an extremely vigorous winter. Plowing this wheat stubble would necessitate a more liberal amount of moisture than as though the field had been worked all summer as I did mine to conserve the moisture.

I think it would be better to fit this land with a cutaway harrow or disc harrow instead of plowing it. If plowed the first of August it is liable to more thoroughly dry out than as though it was fitted with a disc harrow. Then again, I think you can prepare a better seed bed without plowing.

COLON C. LILLIE.



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ECONOMIZING WITH THE HAY CROP.

crop which is universal over the country. ties farmers seldom medicate the navels Already the department of agriculture at of young colts and here is where a whole Washington has issued a bulletin urging lot of weakness and joint disease could farmers everywhere to supplement this shortage, at least in a measure by planting and sowing catch crops. The long continued drought in many sections still continues. Pastures are short or burned up and with hay now ranging from \$18 to \$24 per ton a serious condition in this line certainly exists.

The writer was fortunate enough to secure a fine crop of hay this season, much of which he expects to handle in the mar-On the other hand we have an abundance of No. 1 oat straw. A 10-acre field of oats was cut rather on the green These oats had a thick undergrowth of what is commonly known as "pigeon grass." While this hindered the oats from curing rapidly, still, the long continued dry weather finally accomplished the desired results and these oats went into the stack fairly cured and with the straw not in the least yellow as oat straw generally is. Cutting them while yet on the green order conserved much of the juices to remain in the straw which otherwise dries out in a manner from overripened oats. The oats seem well filled, white and heavy. I expect to feed much of this straw this winter to the horses as well as cattle and by feeding somewhat more grain, keep them in good order, the extra grain fed in order to do this I figured being much cheaper than to feed less grain and an all hay diet for roughage, especially when the price of hay is and will rule very high the ensuing winter and spring months.

date upon very moist soil, are apt to result in part or total failures. Peas (field) and turnips may be sown thickly on moist soil either together or separately up to the 15th or 20th of August and make from one to three tons per acre of cured roughage for young stock as well as cat-tle, which is greatly relished by them and which is really nutritious. When about 8 to 12 in. in height the crop is mowed and allowed to cure if the weather is suitable, but usually at this time of year the weather is cool to very cold, and the tops may be piled, like sugar beet tops, in very small piles in the open field and fed as desired all through the winter. They will keep splendidly and not heat much if piled as indicated, but in no wise, unless thoroughly dried out, place even a half ton in one heap as they will soon rot down. Sow 11/2 to 2 bu. peas and one pint of turnip seed, broadcasted per acre, spiked or floated in. Sow each separately, dragging them in together. Do not roll the ground afterwards if it continues dry and hot.

G. A. RANDALL. Gratiot Co. This is a new idea for a supplementary forage crop and would appear to be well worthy of at least an experimental trial in a season like the present. If silo room is available this crop could be put into the silo with the same advantage as beet tops.-Ed.

WEAK COLTS AND OVERWORKED STALLIONS.

I am anxious to know more regarding the causes of mares having weak colts, also to know how many mares a stallion should serve during the season. I bought a fine stallion that will not be four years old until next fall and some of my neighbors tell me their young colts come weak. I do not allow my horse to serve more than three mares a day and on account of my refusal to overwork him some of my refusal to overwork him some of my refusal to overwork him some of my reasons for writing. Neighbors tell me that other owners of stallions allow their horses to serve five, six or seven mares daily. I tell horse breeders that this is one of the causes of mares having weak colts. Some of the mares in this locality are fed straw and little more of anything else. I forgot to say that some of the overworked sires travel many miles a day, going from place to place where the mares are kept. Many of the colts here are troubled with sore navels. I would also like to know if a horse fifteen years old would be as likely to get as good colts at this age as he did when younger. Also tell me how many miles a horse should travel daily during the stud season. If you will answer some or all the questions I have asked it will interest not only myself but many more of your readers.

Alcona Co.

L. W. SPIESS.

is apt to be weak at birth. If she has been mated with a horse that has been serving too many mares the colt is quite likely to come weak and also remain delicate for some time. If she foals in cold weather and the colt chills, it will not thrive for some time, even if it lives; also avoid keeping young colts in dark, Again there is a shortage in the hay damp basement stables. In some localibe avoided. The navel of every colt should be treated and this is best done by tying the cord with a clean piece of silk or linen dipped in one part carbolic acid and ten parts olive oil or glycerine. The string should be tied one inch or more from body this stops bleeding and very often the passing of urine. Leave string until it sloughs off with end of cord. If the cord pulls off too close to body and it leaks blood stop it at once for when a young animal loses even a small quantity of blood it is followed by great weakness. Apply either hot or cold water or Monsel's solution of iron and the hemorrhage soon ceases. I frequently apply a lead lotion made by dissolving 1/4 lb. acetate of lead and two ounces tannic acid in one gallon water. Home healing remedies aid in healing raw navels. have never thought it a good plan to allow a stallion to serve more than two or three mares a day. Save the stallion and make use of the impregnator. draft stallion should not travel more than six or eight miles daily during stud sea-The colts from old horses sometimes lack vitality and breeders expect the best and strongest foals from young, but fully matured horses. It is a mistake to breed a stallion to six or seven mares

W. C. FAIR, V. S.

LIVE STOCK NOTES.

Catch crops, unless sowed now at this ate upon very moist soil, are apt to reult in part or total failures. Peas (field) and turnips may be sown thickly on moist soil either together or separately up

of this breed to both countries show large gains in recent years. Many are exported to Ontario, as well as to the provinces of Manitoba, Saskatchewan and Alberta.

Speculators at the Chicago stock yards are responsible for many of the advances that have taken place in prime hogs, as they have operated extensively, buying up the choicer consignments and sorting out the best hogs, which eastern shippers took at a good premium. They have also operated freely in the feeder and stocker cattle market, buying, up straight loads and then picking out the best feeders for country buyers.

It is rather early to expect many range cattle on the market, but Chicago has been receiving some trains of cattle from Montana, Wyoming and Nebraska, the greater part grading only fairly, with some fat lots. The receipts have ran far behind those for the same time last year in volume, as was expected, for the range country is shrinking materially in extent all the time.

The way handy little fat heifers have sold most of the time this year should be a reminder to stock feeders that the popular prejudice once existing against cows and heifers has wholly ceased. Where farmers are properly fixed it is a good plan to feed a car load of heifers, taking care to buy well-bred ones. There is a wide divergence in prices between grassy female cattle and good corn-fed ones, just as is the case in the steer market. Killers want quality and are willing to pay well to get it when looking the market been overworked and need a rest and time to pay well to get it when looking the market here overworked and need a rest and time to pay well to get it when looking the market here overworked and need a rest and time to pay well to get it when looking the market as is the case in the steer market. Killers want quality and are willing to be proved to the pay well to get it when looking the market be proved to the pay well to get it when looking the market be proved to the pay well to get in the Chicago and other western markets do not want horses that lack f

absurdly low.

A Correction.

Alcona Co.

First of all let me say that there are many causes for mares having weak, American Seeding Machine Co. (Incordelicate colts. A mare that is over-worked and under fed, or if she is well fed and not exercised at all, is very likely to have a crooked-legged foal and the foal

A Correction.

Owing to an error in composition, the last line of the advertisement of the porated), of Springfield, O. which appeared on page 71 of our issue of July 22, was omitted. The last clause of the closing sentence should have read, "and then go to your implement dealer and insist on seeing the Buckeye."



The Concrete Dairy Is the Clean Dairy

Real, genuine cleanliness is an absolute necessity in your dairy if you want to get the most money out of your stock.

You can hose out your concrete barn as often as cleanliness demands—and with very little expenditure of time and labor. You save enough in manure to pay for your concrete barn over and over again.

Things made of concrete are fireproof and everlasting improve-ments. Every farmer should build of concrete wherever possible

Write for any of the following special plans and instructions:

Plans for Sidewalks Plans for Troughs Plans for Porches and Steps

Write us for information on any kind of concrete work. We will write you individually, giving full instructions for getting best results. This service is free. The only expense to you will be the postage used in writing us; address the nearest office of the Company,

PORTLAND CEMENT COMPANY UNIVERSAL

CHICAGO 72 West Adams St.

PITTSBURG Frick Building

MINNEAPOLIS Security Bank Building

Annual Output 10,000,000 Barrels



This 88-Page Building Book FREE!



Build all your farm buildings with Hy-Rib, steel sheathing plastered with cement. Strong-permanent-fireproof and rat-proof. No expense for painting and repairs. Cannot burn, rot or wear out. More economical than wood, stene or brick. Simple to use—set the Hy-Rib in place, apply the cement and the work is complete. No centering, wood forms or special equipment required. Hy-Rib greatly reduces the cost of all concrete construction. Write us about your building plans and ask for free book "Hy-Rib and Concrete on the farm."

TRUSSED CONCRETE STEEL COMPANY, 688 Trussed Concrete Building. Detroit, Michiga



Keeps flies and all insects and pests off mals — in barn or pas-longer than any imi-m. Used and endorsed o 1885 by leading dairy-and farmers. \$1 worth saves \$20.00

in milk and flesh on each Cures sores, stops itching Nothing better for galls, poultry houses. ar dealer can't supply you, for ugh Shoo-Fly to protect 200 SEND \$1,

Shoo-Fly Mfg. Co., Dept. H, 1310 N. 10th St., Philada. Editor knows from experience that Shoo-Fly is O. K.

DEATH TO HEAVES r second \$1 can cures heaves. The third is guaranteed to cure or moneyrefunded, \$1 per can at dealers, or express prepaid. Send for booklet.

THE NEWTON REMEDY CO.

Live Stock Owners

DR. DAVID ROBERTS VETERINARY BOOK 184 large pages, regular price \$1. Posts you on ailments, diseases and how to treat all kinds of live stock. If not found at your local drug store, send 10c in stamps for postage and receive direct. DR. DAVID ROBERTS VETERINARY CO., 966 Grand Ave., Waukesha, Wis.

Warranted to Give Satisfaction. Gombault's **Caustic Balsam**

Has Imitators But No Competitors. Safe, Speedy and Positive Cure for Curb, Splint. Sweeny, Capped Hock, Strained Tendons, Founder, Wind Puffs, and all lameness from Spavin, Ringbone and other bony tumors. Cures all skin diseases or Parasites, Thrush, Diphtheria. Removes all Bunches from Horses or Cattle.

As a Human Remedy for Rheumatism, Sprains, Sore Throat, etc., it is invaluable. Every bottle of Joustic Balsam sold is Warranted to tive satisfaction. Price \$1.50 per bottle. Sold by druggists, or sent by express, charges paid, with full directions for its use. Le Send for descriptive circulars, testimonials, etc. Address

The Lawrence-Williams Co., Cleveland, O.

Smiling

The Aermotor

WERMOTOR

has been

smiling at

for 23

the breezes

The WINDMILL

was the first device made by man for producing power. will be the last hope of the human race. When all other natural resources have been exhausted the windmill will ofill remain, and will probably furnish

light, heat and power for the remnant of the human race. In the interim, between the beginning and the end (where we now are) it makes a greater return to the people in proportion to its cost than any other machine. It does more cheaply, and with less attention, the thing which it is fitted to do, than any other power.

The wind blows everywhere and is free. With a windmill, the expense for oil and repairs is the only one, and that is trifling. An engine requires much more in the way of oil and repairs, and fuel - which is the great expense —has to be added.

The windmill does not require an experienced man to operate it. It is so simple that anyone can understand its workings.

A well-made windmill is a durable machine. The driving shaft of a windmill runs only about one-fifth as fast as the crank shaft of an engine of the same power. A good windmill will outlast several engines doing the same amount of work.

The best farmers, everywhere, use windmills generally for pumping water. In every progressive farming community the windmill is the most conspicuous object. groups of farm buildings.

All the world knows that the Aermotor Company made the first steel windmills and steel towers, and made the steel windmill and steel tower business. It is believed that, since the business was fairly established, it has made, and continues to make, more than half the world's supply of windmills. In the Aermotor the plan of back-gearing was first introduced into windmill construction. By this means the power of the swiftly running wheel is utilized without operating the pump too fast.

The peculiar form of Aermotor wheel, which gives it great power, also enables it to run in the lightest breeze. No windmill has yet been made which equals the Aermotor in

its light-running qualities. The form of the wheel is exactly right.

Simplicity is another of the important features of the Aermotor. There are no complicated parts to get out of order. There are no devices requiring skillful adjustment. Every part is solid, substantial and durable.

The main bearings of the Aermotor have large dust-proof oil pockets which afford the best possible means of lubrication. The other bearings have

The Aermotor has thoroughly demonstrated its staying qualities. In almost any community Aermotors can be found which have been doing duty for fifteen, eighteen or twenty years. And these old Aermotors were made before the days of the heavy gears and the shaft-carrying arms which are easily turned in their sockets so as to give new and perfect bearings for the shafts in case they have become worn through overloading or neglect. The present Aermotors are sure to be more durable and serviceable than the earlier ones.

The galvanizing of Aermotor outfits has had much to do with their popularity. Aermotor galvanizing is real galvanizing. It is the best that can be done and will last a lifetime. Aermotors which were galvanized twenty years ago are as good as ever.

The Aermotor Company has been building for the ages. It has always been working toward the building up of a great and permanent business. It has succeeded so well that Aermotors are as well known in South America and South Africa as in the United States. Dealers in Aermotor goods are found everywhere. When you want anything in the Aermotor line you can get it and get it quickly.

AERMOTOR PRICES AND POLICIES

When the Aermotor Company commenced the manufacture of the windmill, it reduced the cost of wind power to one-sixth of what it had been. It advertised its prices. It made the best thing that could be made and at the lowest price at which it could be made. It uses no traveling men. It made so good an article that one-half the world's business came to it and stayed with it. It is doing the same thing with the gasoline engine. Where one goes others follow, and we are

turning them out in great quantities, to the delight of Aermotor friends everywhere. We could send smart traveling salesmen to see you and persuade you to pay \$25 or \$50 more for a windmill or an engine, and it would be worth it—not to you, but to us. But there are plenty of reading and thinking men who prefer to save their own time and money and deal in the Aermotor way.

AERMOTOR GASOLINE ENGINES

Wherever a windmill is suitable for the work, an Aermotor furnishes the cheapest and most satisfactory power for pumping. But there are some places where a good wind exposure cannot be had. There are other places where power is wanted only temporarily. supply their own power for operating the pump and do not wish to put up a windmill which they will have to leave behind them when they move. To supply the demand for a pumping power for such cases the Aermotor Company makes a gasoline engine which can be attached to "any old pump" in thirty minutes. It is sold complete and ready to connect to the pump for \$37.50, F. O. B. Chicago.

For ranch purposes, or for handling large quantities of water, a heavy, back-geared pumping engine is supplied for \$100.00, all complete, ready to receive the well fittings, which can be set up in working order within an hour after it is received. It is capable of raising sixty barrels of water an hour to an elevation of one hundred feet.

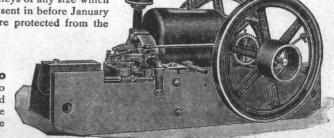
For running machinery, the Aermotor Company makes a line of General Purpose Power Engines. The 2 H. P. Hopper Cooled Engine sells for \$75.00, 4 H. P., \$125.00. All prices are F. O. B. Chicago.

These engines are fitted with the Aermotor galvanized steel pulleys. Who ever heard of a galvanized steel pulley? No one. Nor did anyone ever hear of a galvanized steel windmill, or steel tower, until the Aermotor Company produced them. These galvanized pulleys are sure to revolutionize the pulley business. They are light, strong, cannot be broken, and are wonderfully cheap. A complete set of seven pulleys for a 2 H. P. engine is sold for only \$8.00. A set of seven pulleys for the 4 H. P. engine sells for \$11.90. We always furnish one pulley free with each power engine; but to anyone thinking of buying an engine, who writes us within one

eek from the appearance of this advertisement, stating in what paper he saw it, we will furnish free, with each 2 H. P. engine or larger, \$5.00 worth of pulleys of any size which you may select for either engine or line shaft, provided the order is sent in before January 1st, 1912. Pulleys for the line shaft-being used where they are protected from the weather - are not galvanized.

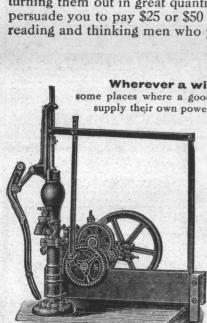
MAGNETO FREE

All Aermotor Power Engines are fitted with a magneto Batteries are not used with these engines. You have no ignition troubles when you buy Aermotor Gasoline Engines fitted with the Aermotor magneto. We don't believe that anyone who once sees an Aermotor Engine run with magneto will take



any other engine as a gift. For full particulars write

Aermotor Company 2516 W. 12th Street Chicago



For Figine | For Line Shaft 10 12 14 16 18 20 22 24

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

Advice through this department is free to our subscribers. Each communication wrifer. Initials only will be published. Many queries are answered that apply to case in full; also name and address of should state history and symptoms of the 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.

Abscess on Lip—Our 12-year-old horse had a swelling appear on upper lip which soph opened and discharged a thick syrup-like fluid. Whenever the opening scloses the lip fills and in a few days empties. J. E. H., Fennville, Mich.—A large enough opening should be made to give abscess free drainage, then apply equal parts boric acid, powdered alum and oxide of zinc. A few applications of one part tincture iodine and eight parts water will have a good effect.

Fungus Growth on Nose—I have a year-ling colt with fungus growth on nose which is rather flat predictions of the high parts water will have a good effect.

Fungus Growth on Nose—I have a year-ling colt with fungus growth on nose which is rather flat prediction of the high parts surrounding but more than ½ inch, but is spreading. I prefer not to have this bunch removed by operation. E. E. T., Kalamazoo, Mich.—Apply one part chromic acid and 15 parts water to warty growth three times a week. Apply vaseline or oll or grease to healthy parts surrounding bunch or this medicine may burn and irritate the skin. Impure Blood—Skin Eruption.—I have a horse that seems to be in good health and flesh, but has pimples on skin which must produce an itching, causing him to roll when turned out. Our local Vet. has prescribed for this animal, but have not given his treatment very long. This horse likes to be groomed. N. D., Leonard. Mich.—Give your horse ½ oz. doses or Fowler's solution in feed or water two or three times a day and dissolve ½ lb. cooking soda in a gallon of water and wash body once or twice a day. Dusting on some powdered sulphur to itchy parts occasionally will have a good effect.

Abscess in Udder—Calves Injured.—A short time ago one quarter of my cow's bag caked and soon broke open. How should a case of this kind be treated before my calves bled at nose and eyes and soon died. Our local Vet. thought perhaps he had hooked them, for the other two are dumpish and bleeding from nose and soon died. Our local Vet. thought perhaps he had hooked them, for the other i

sheep one part powdered sulphate for a week. Your sick lambs should be given two or three grains sulphate of iron at a dose daily.

Nodular Disease.—Recently I have lost several sheep and am anxious to know it the trouble is contagious and what can be done to cure them. The first indication is loss of appetite and those that are milking dry up, run down, hold head low and breathe too fast. This quick breathing sets in a few days five die. During the past eight days five threathing sets in a few days days five them, found life, Mich.—I am inclined as great nature. I make the pened one of them, found life, Mich.—I am inclined as great provided that is very prevalent in this country. Diseased sheep running on land infect he pasture, but as your flock are perhaps all diseased, it is now a matter of medicating them. Only fair results can be expected when treating for this aliment. Advanced cases where the sheep show much emaciation do not as a rule receive much benefit from treatment. Green each full grown sheep 3 or office and the provided prover logs, fences, bars, out of ditched the pasture, but as your flock are perhaps all diseased, it is now a matter of medicating them. Only fair results can be expected when treating for this aliment. Advanced cases where the sheep show much emaciation do not as a rule receive much benefit from treatment. Green each full grown sheep 3 or office and the prover logs, fences, bars, out of giver long or of or office and the prover logs, fences, bars, out of giver long or office and the prover logs, fences, bars, out of giver long or office and the prover logs, fences, bars, out of diching one per cent solution of coal art results can be expected when treating for this aliment. Green each full grown sheep 3 or office and the prover logs, fences, bars, out of diching or one per cent solution of coal art results and prover logs, fences, bars, out of which are prover logs, fe

The same of the sa

ration and if you will give them each a dessertspoonful of lime water at a dose in feed two or three times a day, discontinue feeding corn, but feed some oats and green food also feed skimmed milk instead of sweet milk, they will soon improve. Furthermore they should have more exercise and sunlight.

Joint Disease in Pigs.—Have a few pigs two months old that are troubled with swollen joints and I would like to know what to do for them. These bunches must cause me pain, for the pigs change legs often. W. A. M., Beulah, Mich.—Your pigs became infected through navel opening, causing this joint trouble. It could have been prevented. Apply simple home healing remedies to the navels of all young animals and you will find it pays. Paint bunches with tincture of iodine three times a week.

Sore Mouth—Scours.—Have a four-months-old pig that scoured badly for some time and when eating chews his food with one side of mouth only. When I bought this pig I bought three others of same litter; three weigh over one hundred pounds each and this fellow is very light. This pig has a rough coat and dislikes solid food. B. C. P., Harbor Beach, Mich.—Give him a dessertspoonful of the following tonic powder at a dose in feed two or three times a day: Gentian, ginger, quassia and cooking soda, mixed thoroughly. Examine his mouth.

Worms.—Have a cat that is now about 12 months old, which is troubled with a cough and is losing flesh rapidly. She appears to me some like as though she had sore throat, but I fail to find anything in throat. G. H., Fair Grove, Mich.—Apply que part kerosine and eight parts camphorated oil to throat once or twice a day. Give 12 gr. kamala at a dose and give two oz. clive oil at a dose two hours later, twice a week. Kindly understand the best results are obtained from vermicides when given on empty stomach.

Indigestion.—My eight-year-old horse is fed six quarts of ground feed, oats, corn and beans mixed three times a day. Give 12 gr. kamala at a dose in feed him some ground slippery elm bark and blow ba den he

three times a day. He will breathe most comfortably when not too full.

Dislocation of Stifie.—I have a five-year-old mare that is troubled with stifle weakness. The cap seems to slip out of place and after considerable effort on her part it slips back into place and remains there for a time. G. H. L., Bentley, Mich.—The joint should be blistered lightly with cerate of cantharides once a week. The bone is kept in place most easily by lowering the fore feed a few inches and prevent foot from going back of body too far.

Bog Spavin—Joint Disease.—My three months-old filly has a large round bunch in hock joint; am at loss to know what to do for her. Our local vet. recommended poultices and they appeared to do some good. When this colt was two weeks old I noticed joint filled and enlarging some, but thought some liniment would make it all right. W. H. Y., North Star, Mich.—Your colt suffers from navel infection; apply light applications of tincture iodine three times a week; fomentations of hot water help such joint ailments.

Cow Gives Bloody Milk—Will you kindly tell me what to do for a cow that gives

AUCTION SALE MONDAY, AUG. 28, 1911,

HUPP STOCK FARM

Located one mile west of Birmingham on Maple Ave.
This fine farm located within 18 miles of Detroit and
within one mile of the beautiful and thriving village
of Birmingham, and comprising 199 5-10 acres, will
be sold on the premises, together with growing
erops. Soil—sandy loam; good fences and buildings,
also a good orchard.
At the same same time there will also be sold in separate parcells, all of the live stock, machinery, tools,
feed, provision and household furniture now located on the said farm. The live stock comprises—
Registered Berkshire Swine and

Registered Berkshire Swine and Guernsey Cattle

Also draft Horses, Ducks, Chickens & Turkeys.
Farmers, breeders, stockraisers, investors, or anyone looking for a country home for pleasure and
profit, do not fail to attend this sale.

Refreshments will be served on the premises free of
charge and conveyances will be provided at D. U. R.
waiting room. For full information and sale list
apply at office or write to

UNION TRUST COMPANY, Executor of will of Charles J. Hupp, deceased DETROIT, MICHIGAN.





\$1 a Pottle; 6 for \$5 All druggs on the Horse.
"Treatise on the Horse.
DR. B. J. KENDALL CO.
Transburg Falls, ' Vermon

The Round Trough Has 8 Compartments



the feed. They are practical and save many times their cost. No better troughs to be had.

The LEHR AGRICULTURAL CO.

Dept. M. Freement, Ohio.

For Sale by Michigan Agricultural Col-lege, East Lansing, Michigan, 1 pure bred Black Percheron Stalllon, 2 years old, October 10, 1911. Weight 1400. Write R. S. Hudson.

REG. PERCHERONS for SALE⁻¹ stallion, 1 year old both grays. M. A. BRAY, Okemos, (Ingham Co.,) Mich

BREEDERS' DIRECTORY.

CATTLE.

ABERDEEN-ANGUS

d, consisting of Trojan Ericas, Blackbirds and s, only, is headed by Egerton W. a Trojan Erica ack Woodlawn, sire of the Grand Champion stee ull at the International in Chicago, Dec., 1910 s assisted by Undulata Blackbird Ito. WOODCOTE STOCK FARM, Ionia, Mich.

FOR SALE One Ayrshire pedigreed bull, which cam Minn., Owner Great Northern Railway. Also, hav Ayrshire bulls for breeding purposes. Addre C. O. FRISBIE, Buchanan Michigan.

TOP NOTCH HOLSTEINS

op Notch registered young Holstein Bulls com-ing in themselves the blood of cows which now I and have in the past held World's Records for k and butter fat at fair prices. MICPHERSON PARMS CO., Howell, Ilich.

HOLSTEINS—1 have for sale a few cows and year-cordia Champion, the only bull of any breed whose 2 grand dams average 34.00 bs, butter in 7 days. Also bull calves and service bulls. L. E. Connell, Farette. O.

Holstein Friesian Cattle—BULL CALVES, ary Mercedes. W. B. JONES, Oak Grove, Michigan.

HOLSTEIN BULLS-1 to 3 months, \$25 to \$50 Registered and well bred HOBART W. FAY, Eden, Michigan.

HOLSTEIN-FRIESIAN Cattle and Duroc Jersey swine Bull calves for sale from A. R. O. Cows. E. R. CORNELL, Howell, Michigan.

HOLSTEIN BUILE—I with a 20 lb. Dam: A grand one at a low figure. Several fine ones at lower cost LONG BEACH FARM, Augusta, Kalamazoo Co., Mich

FOR SALE—Holstein Bull 2 years old \$125. Bull Calves 6 months to 1 year \$50 to \$100. Bred heifers \$150 to \$200. Oldest herd in Ind. Send for Photos and Pedigrees, W. C. Jackson. 715 her St. South Bend. Ind.

HEREFORDS—Both sexes and all ages for sale. Also Poland-China hogs. ALLEN BROS, Paw Paw, Mich.

BUTTER BRED JERSEY BULLS FOR SALE
CRYSTAL SPRING STOCK FARM.
Silver Creek, Allegan County, Michigan.

JERSEY BULLS FOR SALE BROOKWATER FARM, ANN ARBOR, MICH., R. F. D. 7.

Register of Merit Jerseys. Offical yearly lot of young bulls from dams with official record. A fine of 483 pounds and upwards of butter.

T. F. MARSTON, Bay City, Michigan.

JERSEY BULLS—Reg. Ages from six months to maturity. Dams high producers. Prices right. W. E. SHELDON, Litchfield, Mich.

JERSEYS FOR SALE—A few choice heifers bred. A. NEWMAN, R. No. 1, Marlette, Michigan.

FOR SALE-Reg. St. Lambert Jerseys roducing stock. C. A. BRISTOL, Fenton, Michigan

REGISTERED JERSEYS For Sale—Some combin ing the blood of St Louis and Chicago World' Fair Champions by HERMAN HARMS, Reese, Mich

LILLIE FARMSTEAD JERSEYS. HERD BULLS {Vidas Signal St. L. No. 58197 Jubilee's Foxhall, No. 82299. Bull calves sired by these great bulls, and out of splendid dairy cows, many of them in test for register of merit. Also a few heifers and heifer calves for sale. Write for description and prices. Satisfaction 4. aranteed, or money refunded. COLON C. LILLIE, Coopersville, Michigan.

For Sale Double Standard Polled Durham Bulls heifers, and cows. I am closing out Write for prices. Sanford Gasser, Sherman, Mich

SHEEP.

Oxford-Down Sheep and Poll Durham oattle forsale, J. A. DE GARMO, Muir, Mich

Oxford Down Sheep Good Yearling Field Rams and ewes of all ages for sale. I. R. WATERBURY. Highland, Michigan.

OXFORD DOWN Ram Lambs and yearlings also a few ewes for sale JAS. P. GIBBS & SON, R. No. 4, Ithaca, Mich.

PARSONS' OXFORDS—these big, dark faced better lambs. Grado X, 215; XX, 320; XXX, 325. I pay express charges. Order now for shipment later when needed of Michigan's largest breeder of good sheep. "PARSONS—the Sheep Man." Grand Ledge, Mich.

Reg. Rambouillets—I have 100 ewes, among them also 85 ewe and ram lambs. Live 2½ miles east of Morrice on G. T. Road. Address J. Q. A. COOK

Durocs & Victorias Growthy Spring Boars & Gilts of choicest breeding from Prize Winners. M. T. STORY, R. 248. Lowell, Michigan.

BERKSHIRE PIGS combining the blood of the Longfellow families—the world's best breeding Price \$15. C. D. WOODBURY, Lansing, Michigan

Berkshires—Ten gilts bred to the wonderful Duke Pontiac Chief, to farrow in April or May No better breeding. C. S. Bartlett, Pontiac, Mich

BERKSHIRES Registered boar pigs, excenent individuals, breeding unsurpassed. Price \$15. C. C. COREY, New Haven, Mich

TWO Berkshire Gilts, sired by Handsome Prince & Bbred for Aug., farrowing, will sell at \$40 & \$45 als a few spring pigs left. A. A. PATTLLUO, Deckerville, Mich

A DAMS BROS., Litchfield, Mich., breeders of Imp. Cheste White and Tamworth swine, service boars, sows bred o open, of either breed. Shorthorn Catle, Buff Rock, Buff Wyan dotte, W. Orpington. Ckls. all breeding stock, leading winners

0. 1. C. Swine—Bred gilts, males weighing from 150 to 250 lbs. Price and type right. Geo. P. Andrews, Dansville, Ingham Co., Mich 0. 1. C.—March pigs with quality and best per grees. Order now and get first choice. J. THOMPSON, Rockford, Michigan.

O.I. C's For Sale—Best quality, large growthy akin, some fine bred gilts, choice lot of fall pigs all ages. OTTO B. SCHULZE, Nashville, Michigan.

CHESTER WHITES—Sold out but business of raising Chesters and Holstein cathe Both Phones. W. O. WILSON, Okemos, Mich.

O. I. C. March Pigs and Sows to farrow Aug. & Sept.

O. I. C. Choice Spring Pigs, either sex. Pairs not get first choice. All pigs shipped on approval and Reg. free. HARRY T. CRANDELL, CASS CITY, MICH.

O. I. C. SWINE-My herd is chiefly descent of the Royal strain both males and females. Get my price before ou buy. Will register free of charge in purchaser's tame. A. J. GORDEN, R. No. 2. Dorr. Michigan.

O. I. C,'s-I am offering 12 choice young boars and 10 select sow pigs at larmers' prices in order to make room for fall pigs. Fred Nickel, Monroe, Mich., R-1.

O. I. C. -Choice boars ready for service. Gilts and bred sows for September farrow Glenwood Stock Farm, Zeeland, Mich. (Phone 94.)

DUROC-JERSEYS-Bred Gilts and spring pigs for sale. CAREY U. EDMONDS, Hastines, Michigan.

FOR SALE-DUROC-JERSEY bred sows pigs and Shepherd Pups. Ex press prepaid. J. H. BANGHART, Lansing, Mich

WALNUT HILL DUROCS-17 fancy sows bred to W Mich. Col. for August and Sept. farrow, 185 spring pigs, both sexes, priced right. Write or come. J. C. BARNEY, COLDWATER. WICHIGAN.

LARGE TYPE P. C. Largest in Mich. Sept. & Oct. pigs weigh 250 to 300 lbs. Sired by two largest boars and from largest sows in State. Oome and see and be convinced. W. E. Livingston, Parma, Mich.

POLAND-CHINAS-Booking orders for spring pigs. WOOD & SONS, Saline, Michigan.

Butler's Famous Wonders—The big Poland-China, without a peer, 150 spring and summer pigs at \$10 each; 30 brood sows at \$30 each; 6 registered Jersey bulls at \$25. Everything on the bargain counter for 30 days.

J. C. BUTLER, Portland, Michigan. Bell Phone.

Poland-Chinas A few big type Sept. Gilts bred for Sept. farrow. Also spring pigs. E. D. BISHOP, Boute 38, Lake Odessa, Mich.

Three Extra Good Fall P. C. Boars

By Next In Line. 32 spring male pigs ready to ship. I ship C. O. D. and furnish pedigree promptly. If you want good as the best, write me for prices, WM. WAFFLE, Coldwater, Michigan.

BIG TYPE POLAND OHINA BOARS, also fall and early spring pigs. B. P. Rock eggs \$1.00 per 15.
ROBERT NEVE, Pierson, Michigan.

For Sale PURE YORKSHIRE BOARS
READY FOR SERVICE.
WATERMAN & WATERMAN,
Successors to the Murray-Waterman Co., ANN ARBOR, MICH.

Lillie Farmstead Yorkshires Holywell oak Lodge bloed predominates. Large Herd. Three service boars. Pairs and tries, not akin. Boars ready for service. A fine lot of spring pigs. Gilts bred for August farrow. The best hog on earth. Satisfaction guaranteed. COLON C. LILLIE, Coopersville, Mich.

CONDUCTED BY COLON C. LILLIE.

THE CARE OF MILK AND CREAM ON THE FARM.

In a very small village, close to an first place, the creamery is run on the creamery a business success. co-operative plan and patrons get everything except the cost of production. Second, it is a whole milk plant and as METHOD OF PAYING FOR MILK AT H. Grisdale of the Ontario experimental whole milk must be delivered oftener than CHESE FACTORIES. cream, it reaches the creamery in better condition; and third, the patrons are a very intelligent class who take the best fat in milk used for the manufacture of care of their milk at home.

unimportant branch of one of our great times each week, if we expect the best more conservative campaign. Nevertherailroads stands a little co-operative results. No butter maker can make but- less the lighter buying this summer is creamery. The farmers built it years ter that will score extra from poor cream directly charged to the lighter output of ago, have stood by it loyally and are not and attention to a few simple details will the product, making it impossible for the sorry. I have watched that creamery for not only spare him a great deal of care a long time and know that the patrons and annoyance and deliver him from much they were of a mind to store liberally. have been receiving for butter fat from undeserved biante and constant, the milk flow and consequently the two to five cents per pound more than enable him to produce an article that will the milk flow and consequently the two to five cents per pound more than enable him to produce an article that will the milk flow and consequently the two to five cents per pound more than enable him to produce an article that will the milk flow and consequently the have been receiving for butter fat from undeserved blame and censure, but will Short pastures in June and July limited the average price paid throughout the command the highest market price, there- amount of butter. state. This fact is probably due to sev- by rewarding the individual patron for eral causes, but mainly to three. In the his care and attention and making the

> W. F. TAYLOR. Oceana Co.

A study of the quantity of casein and

handling of the separator which every with 86,000 for a year ago. These facts dairyman should read. While the cream ought to lend good support to the butter is cooling, the vessel which contains it deal. The huge operations of a year ago should be open and the cream stirred were probably more or less responsible now and then. After it is cool, the cream for the early break in prices last winmay be poured into a can and the cover ter when everyone was expecting that closed down providing it is kept at a low high prices would continue throughout temperature. The air where the cream the winter; but the break came and is cooled, should be pure and free from the misfortune of the market then was a objectionable odors. The cream should lesson to many, discouraging some altobe delivered to the factory at least three gether and helping others to follow a brokers to lay by the goods even though

ON FILLING THE SILO.

In commending to the dairy farmer the advantages of growing the corn crop, J. farms has the following to say regarding the proper method of filling the silo: Fill your silo properly; keep it well filled around the outside all the time, and keep are of their milk at home. cheese, and the relation of the per cent it well packed. The center of the silo Every dairyman desires the highest of each to the quality of the product, has will look after itself. Farmers say they price for his market product. To obtain convinced the officials and investigators do not think much of cement silos or steel silos because the corn for a few inches in becomes dried out and gets in bad shape. That is not the fault of the silo, it is the fault of the man who filled You should put a good man in the silo. If you have a real good man whom you know is faithful, put him in the silo and say to him, "Now, John, keep this banked up against this wall and that wall and if you have any walking keep walking around the outside all the time, and keep it five or six or seven or eight inches higher than it is in the middle." When full then fill up the center a little higher than the edges, tramp it down and if convenient put a few pails of water on it. Do not put anything else on it, tramp it well and then go up about three days later and level it off and tramp down again. You will lose only three or four inches at the most. When removing keep the middle a foot higher than the edges; then the silage will not spoil and it will not freeze so badly. Do not imagine that because it freezes it is lost. It does not hurt it at all providing you thaw it out before feeding it. You should not feed ensilage while frozen because there is more



Commenting upon the performance of that wonderful cow Pietertje Ma.d Ormsby, the superintendent of the advanced regestry of the Holstein-Friesian association took the liberty to say the following about dehorning since the above mentioned cow had been relieved of her criticised her in correspondence to Mr. Gardner. He says: "As an individual proposition, a neat pair of short, nicely curved, waxy horns on a cow's head may be something to be admired. As a general proposition the cow of today has no need of such weapons, and if she has them will surely use them on her mates in the herd and cause more or less loss to the owner. Ages ago when the ancestors of Pietertje Maid Ormsby ran wild in the forests of Europe it was necessary for the cow to protect her calf from the of prey, and the horns which nature had sity, but such conditions no longer exist, selves as to what useful purpose can be

NATIONAL CREAMERY BUTTER-MAKERS' ASSOCIATION.

The executive committee of the national creamery buttermakers' association decided on Chicago as the location and Review, aggregated 170,000 wine on the date of holding their next annual Convention which will be held November 1st, does not need washing every time it is 800 packages. This shows a loss of nearly 2nd and 3rd. The National Dairy Show will be in progress at that time. organization represents a membership in a dirty separator cannot do clean skim- for this year and 410,000 packages for excess of six thousand, with an annual 1910. In Boston this year there are 232,- production of nine hundred million pounds Some time ago, the Purdue University 370 and last year 276,861 packages. Phil- of butter, the cash value of which exceeds



Aaggle of Lynfield Duches De Kol. This cow produced 19 lbs. butter in 7 days as a 3-year old, 21.99 lbs. as a 6-year old and 27.60 lbs. as a 7-year old. She is the property of F. S. Kenfield of Kalamazoo Co.

have been rightly handled.

The farmer cannot resort to all the methods of the producer of certified milk and produce butter at present prices, but he can observe a few plain, ordinary rules of handling that will cost him very little, furnish the consuming public with a clean, wholesome product and bring him a nice profit.

First, the cows must be kept clean. It is usually easier to accomplish this in the summer, than during the winter months, as the cows spend much of their time outof-doors. But if the herd is stabled nights, there are problems that must be met and solved in the interest of cleanliness. If a hand separator is used, the milk should be run through as soon as possible after it is drawn and the cream cooled as rapidly as may be to a temare cold springs that can be prepared with a very trifling expense to receive and preserve the cream in ideal condition." No man who has a good spring on his serve one's purpose equally well. the dairy business. There never was a

ming.

this, the butter must be of a high quality, at the Wisconsin station that cheesemakand to this end, the milk and cream must ers should pay for milk upon the basis of both casein and fat content, since the former element like the latter was found to be variable in different samples of milk and the resultant cheese was influenced by the amount found. They discovered further that the butter fat test was no guide to the quantity of casein and that a test for the latter should horns for the lack of which some breeders therefore be made to learn the true value of the product as a material from which to manufacture cheese. A simple casein test has been devised, the expense of which is insignificant when compared to the advantage of its use.

BUTTER MARKET CONDITIONS.

The average price for butter the first week in August for the past five years is 25.3 cents per pound, the quotations for perature anywhere between forty-five or the several years being 24, 22, 261/2, 28, and fifty-five degrees. In many farms there 26 cents respectfully from 1907 to 1911 depredations of wolves and other peasts inclusive. This indicates that the present price of butter is now a little above provided for that purpose were a necesthe ruling price for the period in consideration. And it seems from the condi- and our breeders may well ask themfarm at a reasonable distance from the tions prevailing that the farmers who are house, can afford to bother with ice to depending upon the price of butter stay- served by horns on the head of a cow. keep the cream sweet. If the whole milk ing up to help them secure proper re- That cows are more quiet and gentle, is taken to the creamery, the spring will turns are not going to be disappointed more companionable with each other in It will in the immediate future, since the talk every way when deprived of these weap surprise one who has never had the ex- of the trade sounds more favorable to ons is readily admitted by all who have perience to find how long clean milk will advances in values than to declines. The seen such cows standing quietly in the keep sweet when cooled down rapidly amount of butter put away by the stor- barn yard or bunched in drinking at the soon after milking and placed in cold age people during the months of June water tank." water. If the separator is used, it must and July a year ago were considerable be kept clean. It must be carefully wash- larger than what they are this year. For ed after each skimming. I have known example on Aug. 1 the amount of packagents for separators to say to prospec- ages in storage in the great storage tive victims that their particular machine houses in and about New York City, condid not need washing oftener than once sisting in all of eight storage companies a day, but these men were enemies of and 13 houses, according to the Produce separator made and never will be, that same date a year ago there were 231,used. It is a matter of business economy 62,000 packages. In Chicago the figures to wash the machine, for the reason that for the same date stand 400,000 packages of Indiana published a bulletin upon the adelphia has 55,600 packages compared two hundred million dollars.

135 THE SIMPLEST CREAM SEPARATOR Is Easiest to Wash and Lasts Longest ARPLES **Dairy Tubular Separators** are the only separators without disks or contraptions—the only simple separators. They have twice the skimming force of others. Skim faster. Skim twice as clean. Repeatedly pay for themselves by saving what others lose. A Dairy Tubular recently finished work equal to 100 years service in a five to eight cow dairy. The total cost for oil and repairs was only \$1.15. Write for illustrated account telling all about it. THE SHARPLES SEPARATOR CO. Chicago, Ill., San Francisco, Cal., Portland, Ore, Toronto, Can. Winnipeg, Can. Keepthe Sparrows out of your Barn Door HANGER Be rid of these pests and end your hanger troubles for all time







THE MICHIGAN FARMER.

The Michigan Farmer in our next issue. While, of course, this build them as they had intended, avoiddecision is law, at least until it has been in go, of course, the use of the particular passed upon by a higher court, and while we cannot gainsay the allegations made and adhering to the type of construction which has been in common use, but usteplitors and proprietors. THE LAWRENCE PUBLISHING CO., EDITORS AND PROPRIETORS. THE LAWRENCE PUBLIS Congress Street West, Detroit, Michigan. TELEPHONE MAIN 4525. EW YORK OFFICE—41 Park Row. BICAGO OFFICE—600 First Nat'l. Bank Building LEVELAND OFFICE—1011.1015 Oregon Ave., N. E. BAND RAPIDS OFFICE—5 & 6 New Hawkins|Building. R. WATERBURY J. E. YOUNG BURT WERMUTH... ALTA LAWSON LYTTELL H. HOUGHTON.....Business Manager TERMS OF SUBSCRIPTION: Five Years 260 Copies Postpaid

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The Lawrence Pub. Co.,

Detroit, Mich.

The Lawrence Pub. Co., Detroit, Mich.

DETROIT, AUG. 19, 1911.

CURRENT COMMENT.

During the past Silo Construction and fortnight we have The Harder Patent. received a number of inquiries from subscribers regarding the scope of the Harder patent, relating to silo construction, which was recently sustained in an opinion handed down by Judge Ray, in the U. S. Circuit Court for the northern district of New York, Most of the inquiries were apparently prompted and one of them was accompanied by a circuitar letter sent out by a firm engaged in the manufacture of stave silos, together with a license plate to be attached to the silo as a protection to the owner. This circular letter explains that the manufactures had supposed their silos were fully protected by patents issued to them, but that this decision proved that they were mistaken as "This patent was apparently the first granted by the patent office covering a round silo." The letter further states that to secure protection for themselves and their patrons from the holders of this patent, the manufacturers sending it have paid them a large sum of money, and urges that the patron receiving the letter lose no lost of the stand described in this issue of the default and substantially as described.

Lin a silo or tank having a continuous opening from top to bottom and a reinforcing-strip and the edges of the overlapping part, a brace having shoulders and a bracket of the overlapping part and a packing on the line of the overlapping part and a packing on the overlapping part and a packing on the overlapping part and a packing on the inner face of the overlapping against the overlapping against the overlapping part, a brace having and holts for holding the parts of the overlapping part and a packing on the inner face of the valls for holding the parts of the overlapping part, a brace having and brace of the overlapping part and a packing on the in a large sum of money, and urges that the reproduction in this issue of the drawthe patron receiving the letter lose no ings and detailed description of the spetime in attaching the license plate to his silo, "as the Harder Manufacturing Company have planned a vigorous campaign against manufacturers and users of silos which do not bear the license lished in the next issue. While it is plate. This applies to cement, stone, tile, certainly a commendable action on the etc., as well as wood silos." In refer- part of the manufacturers who sent out ring to the decision of Judge Ray the the letter above referred to to protect letter also says it "is probably the most the users of their silos against a patent sweeping ever handed down by the upon which they acknowledge the de-l'nited States Court in a patent case. It vices which they use are an infringement, practically prevents anyone making or and while the allegations made in their frame or wooden frame construction, con- decision referred to, we do not hesitinuous openings or otherwise, and of any tate to advise our readers not to get

text of Judge Ray's decision in the case round silos and silos of almost every in which the Harder patent was sus-description. Hence we do not hesitate tained. We hope, however, to have a to advise readers who have contemplated of

a part of letters patent No. 627,732, as follows:

To all whom it may concern:

Ee it known that I, George D. Harder, a citizen of the United States, residing at Cobleskill, Schoharie county, State of New York, have invented certain new and useful Improvements in Slos, of which the following is a specification.

My invention relates to silos or tanks of that class in which a continuous opening is made from top to bottom, through which the contents are removed at intervals. It is particularly designed for tanks used for holding ensilage.

I have shown the invention as applied to a round silo composed of various staves and hoops made on the same general 'principle as a barrel, except that the staves are straight. The vertical opening in this silo is made from top to bottom and practically continuous, and the opening is closed by a succession of boards or sections of doors inserted and removable from the top downward like the opening and sectional closing of an ice-house. I do not herein claim, therefore, the vertical opening from top to bottom, nor the round construction of the tank or silo, nor the means for closing formed in sections and inserted so as to be removable from the top downward and arranged to be pressed against the wall or any part of the wall in an outward direction, as I am aware that these devices and elements are very old in the special form of brace or stay-piece for holding the edges of the opening at the proper distance from each other to prevent collapse, and, further, in the special means for holding the sections of the door firmly in place.

I claim—

I. In a silo or tank having a continual conti

cific improvements covered by this patent. However, the above quotations seem sufficiently plain for the purpose of this comment. The descriptions will be pubusing any kind of a silo either steel letter may be defensible in the light of the material. In other words the decision of excited about the matter, nor pay any this court is that no silo can be con-royalties on silos which they are building structed either by a farmer or by a or using should a demand be made upon manufacturer without infringing the them. The sile has been in common use Harder patent." since 1875, when the first sile in the since 1875, when the first silo in the To each inquirer we have written that United States was built in Wayne Counwe were making every effort to get ty, Mich., by Dr. Manly Miles, long conexact information regarding this case and nected with the Michigan Agricultural that as soon as it was in hand the es- College. Silos with continuous doors sential facts regarding it would be pub- were in use in Michigan for several lished. Up to the present time, how- years before the granting of the Harder ever, we have not been able to secure the patent, which was issued in 1899, as were

which has been in common use, but ushand the claims upon which the Harder patent is based and which form a part of the letters patent, and from a careful as they may desire. In purchasing manufactured silos it would the letters patent, and from a careful as they may desire. In the letters patent, and from a careful patent is based and which form a part of the letters patent, and from a careful as they may desire. In the letters patent, and from a careful purchasing manufactured silos it would be the part of wisdom to secure a guar antee of protection from infringements on the Harder patent from the manufacturers, who will doubtless receive first attention from the holders of the patent, since in his application for the patent Mr. Harder specifically disclaims any attempt to patent the round form of a silo, or even a continuous doorway. We quote from same, which forms a part of letters patent No. 627,732, as follows:

To all whom it may concern:

Be it known that I, George D. Harder, a citizen of the United States, residing at Cobleskill, Schoharie county, State of New York, have invented certain new and useful Improvements in Silos, of which the following is a specification.

My Invention relates to silos or tanks of that class in which a continuous opening is made from top to bottom, through which the contents are removed at intervention from infringements in the patent from the manufactured silos it would be the part of wisdom to secure a guar ance of protection from infringements reciprocity in order to hang onto Canada, many of us are opposed to it for other reciprocity in order to hang onto Canada, many of us are opposed to it for other reciprocity in order to hang onto Canada reciprocity in order to hang onto Canada reciprocity in order to hang onto Canadian papers that Americants are reciprocity in order to hang onto Canada reciprocity in orde sectional door strips in position and the manner of bolting or fastening the same.

But in the interest of our many sub-

in the negotiation of the reciprocity treaty.

Owing to lack of the control of the reciprocity treaty.

Owing to lack of the process of the p

Now that Canadian reciprocity has been ratified by our Congress and is likely to be ratified by the Canadian Parliament, do you not think we should begin our campaign for complete annexation of the Dominion? Two peoples "so similar and so near to each other" do not need the useless expense of two governments; with Canada a part of us and contributing to our national expenses, the opposition to reciprocity would lose its force; there has long been a strong sentiment in favor of annexation in this country; in the

HAPPENINGS OF THE WEEK.

National.

But in the interest of our many subscribers who have appealed to us, and the many others who are interested in this proposition, we will continue our investigations and substantiate our advice with competent legal opinions, after securing the complete data bearing upon the proposition.

We call special attention Annexation to a communication on this of Canada. page from Mr. Herbert Williams, of Ohio, advocating annexation of Canada to our country. Mr. Williams is a very close observer and a man of very broad information. If our markets are to be opened free to Canadian farm products it is surely desirable that the country should be annexed and share in all our affairs of government and expense. This may have been the unexpressed object in view of our President and statesmen in the negotiation of the reciprocity treaty.

Owing to lack of The Potato Crop. space for voluminous

National.

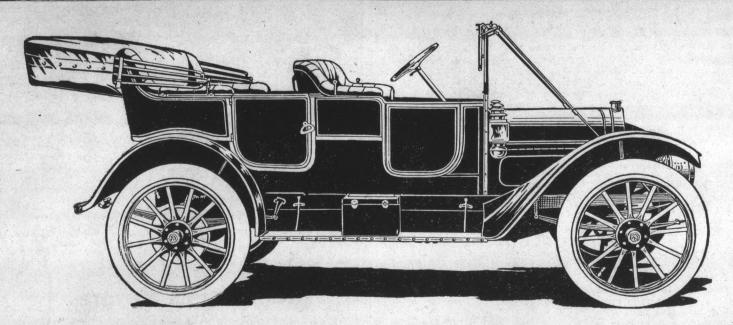
The success of postal savings banks in the few large cities where they have been tried has warranted the postoffice where they have been tried has warranted the postoffice in the few large cities where they have been tried has warranted the postoffice where they have been tried has warranted the postoffice and the few large cities where they have been tried has warranted the postoffice in the stablishing other such as and many more cities with first class offices are soon to be provided with such an institution.

Four persons were killed and 47 in furch in a wreck caused by the Pennsylvania fiyer, the 18-hour train between Chicago and New York, leaving the track before reaching the city of Fort Wayne, Ind. The train was then moving at the rate of 50 miles per hour.

Dr. Wiley, chief of the bureau of chemistry, department of agriculture, was on the witness stand Monday, giving testimony before a congressional committee of 50 products, while the Remsen board have taken the other view. The charges are that the chief arranged to pay and did pay to certain chemists a larger stoped to the benzoate in the few lands and the few lands and Owing to lack of terests.

Foreign.

There was rioting in Liverpool and Clasgow Sunday. Laborers are dissatisfied with laboring conditions and wages and are out demanding changes along both lines. Police reserves and troops were necessary to quiet the rioting in Liverpool where many were injured in a close battle. Bristol and Manchester are also uneasy over the temperament (Continued on Page 147.)



The Ro Sensation for 1912 This Car for \$1,000

(Price Subject to Change Without Notice)

Here is the first attempt to sell a high-grade car—roomy, luxurious, speedy, and powerful—for an eventhousand dollars. It is the latest design of Mr. R. E. Olds—the finest car which this famous factory ever sent out from its doors.

The price is subject to change; it may be impossible. We count that this price will add 50 per cent to our output without added overhead expense. If it does, the price becomes possible—at the present cost of materials. If we find it impossible we shall later advance it. For we never shall skimp on any part of this car to keep the price at \$1,000.

Every Reo agent now has this car on exhibit. Each now offers this initial price. And you will find no car under \$1,500 which compares for a moment with it.

How We Did It

Year after year we have constantly increased our output. Part by part we have brought the Reo car to perfection. Gradually each important part has been standardized, and permanent machinery has been adapted to it.

Year by year we have equipped ourselves to build every part of the car—to cut off the profits of parts-makers.

All the costly experiments are ended now. The expensive changes have all been made. Our machinery, dies, jigs and tools need no more alteration.

Some expensive materials, like tires and steel, are costing less than formerly. Our selling cost is a great deal less, because of our organization.

The new Reo "Thirty," with fore-door, five-passenger tonneau. Four $4x4^1_2$ -inch cylinders—108-inch wheel base— $34x3^1_2$ -inch tires—the best of magnetos. Our latest and finest creation—a roomy, powerful, stunning car—for an even-thousand dollars.

Top and windshield not included. We equip this car with a Mohair Top and Slip Cover, a Mezger Automatic Windshield, a Speedometer and a Gas Tank—all for \$100 extra.

We have enormous capacity and our output can now be increased by half with no extra cost save for materials and labor.

For all of these reasons, the time seems at hand when a car of this class can be sold for \$1,000. And, until further notice, we are going to try it.

No Skimping Whatever

We pledge you our word that in adopting this price, we have not skimped the car in the slightest particular. This is the finest model, regardless of price, that we ever turned out from our factory.

It is the best car we can make. It is as good a car as any man, at any price, can make.

The car is built under laboratory supervision of the most scientific sort. The steel for each part is analyzed. It is tested for tensile strength and for hardness. Nothing is left to chance.

The gears are tested in a crushing machine, to withstand a pressure of $27\frac{1}{2}$ tons. The bearings are fitted

with the best roller bearings—the Timken and the Hyatt High-Duty. The carburetor is adapted to the present grades of gasoline.

All that is known to the best modern practice is embodied in this car. From the big tires and wheels down to the smallest hidden part, we are giving you better than necessary—the very best we know.

Designed by R. E. Olds

This car was designed by Mr. R. E. Olds, the dean of automobile designers. It is built under his supervision.

Long before the days of automobiles Mr. Olds was building famous gas engines. In the early days of the motor car he built the only cars worth having. And in every step of progression since, Mr. Olds has kept well in the lead.

This car we are selling for \$1,000 is Mr. Olds' latest creation. It embodies all his skill and experience. And all his reputation as a great engineer is staked on this Reo car.

Ask for Details

On this car we publish complete specifications. We state every material, every feature, every detail of the mechanism. We do this to help you compare this car with the highest-priced cars in existence.

Please write for these facts. Then go to the nearest Reo agent and see the car itself. This is the first great car to sell for \$1,000. And, if the price is found possible, it is bound to change the whole motor car situation.

R. M. Owen & Co.

General Sales Reo Motor Car Co., Lansing, Mich.

AUGUST-HATCHED CHICKS.

This year, as usual, we hear so much about "poor luck" in hatching and rearing the early chicks that it seems evident that a great many breeders will have to rely upon late-hatched chicks to complete the number of fowls they planned for at the beginning of the season. I consider July and August better months gfor hatching and rearing chicks than the month of June. Chicks hatched in June seldom do well, but those brought out a little later usually do as well as those Some breeders even claim that from their late-hatched chicks they secure their best show birds.

Certain it is that late-hatched chicks require different treatment from the early Keep the late chicks away from ones. the older ones; feed them by themselves. Trying to raise the chicks on the same ground that the early chicks have been running over all spring and summer is out of consideration. The soil will have become tainted and poisoned by the droppings and will bring sickness and death must learn is that even half-grown ducks to your late-hatched chicks. I consider tainted soil one of the principal causes of the loss of so many chicks each season. The only way is to sweeten the soil again by spreading air-slacked lime over it, plowing under, and, if possible, sowing ocit down to some green feed.

The late-hatched chicks should be kept in the shade as much as possible. Try to arrange the coops under fruit trees, berry bushes or grape vines, which will cure a single case of this kind. afford ample shade and at the same time provide animal feed in the form of in- about which we knew nothing before sects which infest the trees and bushes. The corn field is also an excellent place swarm on horses along in June and July in which to allow the chicks to run.

grease their heads and throats with sweet cream. Dust the hen once a week with a good louse powder. After the Buchicks are a few weeks old dust them also with insect powder. Keep the brood coops free from lice. Take a hand spray and spray them thoroughly with a mixture of kerosene and gasoline or carbolic acid. Also whitewash the inside of coops thoroughly. Try the above methods of raising your late-hatched chicks and I am sure you will be successful.

O. E. HACHMAN. Indiana.

EGG IMPROVEMENT.

One thing that is sadly neglected on many farms is an effort toward improvement in the eggs produced. Most people seem to be under the impression that an egg is an egg, without reference to belief is something that costs the farmfor the price of eggs is governed by their appearance just as much as is that of fruit or vegetables. A case of small, discolored eggs. will bring the bottom wormy apples.

Uniformity in color of shell and size of eggs is one of the very important features in egg production. The eggs from a flock of mixed breeding will show a variety of shades of color in the shell, ranging all the way from very white to a rich dark brown, and they will not bring so good a price as those from a flock producing eggs of one distinct shade of white or brown. The condition of the egg cuts quite a figure in price, also. The time was when an egg was an egg in the and sold at a much lower price. and carelessness in handling.

uniformity in size and color of eggs be more easily secured. If the flock is kept at a proper standard and the eggs propfresh, the owner will certainly be re- also form part of the ration. warded by receiving the highest price. The market is no place for stale eggs; first week; after that all they will eat keep them on the farm. The person who up clean three times a day. It is imporwill attempt to foist stale eggs upon tant that they be kept quiet. After three consumers, especially those in the cities weeks of feeding they begin to lose their who are hardly capable of judging the appetites, when they should be marketed:

quality by the appearance of the egg, than dishonest. nothing other poultryman should consider it his duty to raise the standard of quality in egg production just as much as it is to bring about improvement in any other branch of farming or crop production.

GLEANED FROM EXPERIENCE IN RAISING DUCKS.

The ordinary beginner in duck raising, who naturally hasn't all the modern conveniences in the line of pens, etc., is apt to encounter, among his first trials, trouble which we call "scald-foot." This occurs in the ducklings while they are still very young and is due to their natched at the beginning of the season. running in sand or to being shut in a pen having a hard ground floor. feet are so tender that they quickly become sore, the skin flakes off or takes on a blistered appearance and the duckling so affected dies in a few days. I know no remedy, but a preventive is to of place the pen on a plot of soft grass and supply necessary shade and drinking water until they have reached the age at which their feet will withstand contact with rough, hard ground.

Another thing which the duck raiser will eat harmful weeds if given free range. Purslane (commonly called pusley) will cause the neck to stiffen and bloat. Golden-rod is another of the harmful weeds. The ducklings eating this will have its neck and crop bloated and will often become cramped and fall over on its back. We give pure extract of witch hazel, a teaspoonful at full strength, in severe cases. It has never failed to

In 1910-11 the most difficult things, that time, were the small flies which or even earlier. They settled in patches As soon as the chicks are hatched on the ducks and buried themselves from sight in the down. We lost some ducklings in 1910 before we discovered what was killing them. Insect powder was of little use as the ducks washed it off in the water almost as soon as it was applied. Finally we used kerosene, applying it to the surface with a small brush. An application every three or four days was all we found necessary

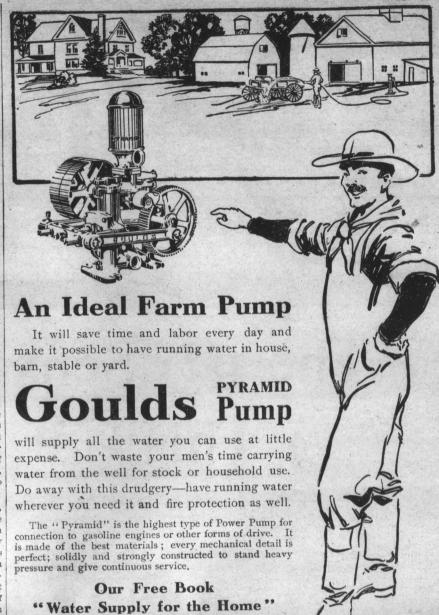
Mason Co. JANICE COOPER.

GETTING .A PROFIT FROM SURPLUS COCKERELS

Young cockerels that have free range possess a good frame and constitution, but lack in flesh and in quality of meat. When fed in pens or crates for two or three weeks they gain in flesh very rapidly, while the increase in bone or frame is relatively very small. Prof. Robertson, color, size or state of cleanliness. That of Canada, demonstrated by experiment that one fatted chicken had as much ediers a large sum of money every year, ble material on its frame as three like chickens not fatted. Cockerels of the general-purpose breeds, 2 to 4 lbs. in weight, are very economical producers of meat when confined in pens and fed price, just the same as a barrel of small, properly. In Prof. Robertson's experiments 131 chickens weighing 492 lbs. gained in four weeks 335 lbs. The cost per pound of gain was 4.9 cents. This represents not only a gain in weight, but a gain in quality, and the market will pay much more for such chickens than for those direct from the range. From lack of exercise the muscles become more edible or tender.

Which grain to use in fattening will be governed partly by its price. results the grain is ground and fed moist. It is usually mixed with skim-milk or eye of the commercial world, but pure buttermilk. Professor Graham, of Ontafood laws and a more discriminating pub- rio Agricultural College, says that the lie have changed conditions. The dirty best ration used at that station is one eggs are sorted out, classed separately made of two parts finely ground oats, two of finely ground is no more than right, for the bright, of corn-meal, mixed with sour milk, us clean shell indicates freshness just as ing one and a half times as much milk much as the dirty shell indicates age as grain, and sometimes twice as much. Where the markets demand a yellow-All of this serves as an argument for flesh fowl, as most of them do in this pure-bred fowls of whatever breed the country, a larger proportion of corn will keeper's fancy may dictate. Thus will be desirable in the ration, but corn alone will prove unsatisfactory. Ground oats alone, with the coarser hulls removed, will give good results where white flesh erly cared for and disposed of while is not discriminated against. Barley may

The chickens should be fed lightly the



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Magazine Section

LITERATURE POETRY HISTORY and **INFORMATION**



The FARM BOY and GIRL SCIENTIFIC and MECHANICAL

This Magazine Section forms a part of our paper twice a month. Every article is written especially for it, and does not appear elsewhere

NEW ZEALAND=-Labor Conditions and Governmental Problems.

By P. A. YODER.

with so brief an experience to make favorable or unfavorable present labor the New Zealander does not call his for what now appears an insignificantly tent myself with noting some observawages demanded, or the limited service concern about his future livelihood. rendered. I was told that in recent years there had been a rapid upward trend in upward trend in living expenses, and in institutions, is in the fortunate position could reach about them and add to islation.

this connection I frequently heard the opinion expressed that the result is the laborers are no better off than before, but that the or employers masters are worse off. To give an incident to illustrate independence of laborers, and the difficulties employers have to contend with, I refer to a visit to a large estate in the Canterbury province where wheat and sheep production are the princi-They, features. however, milk about fifty cows, mainly for a milk and butter supfor the farm hands. Lastly, before leaving I went to look at the herd, at about three o'clock in the afternoon. I was surprised to find them milking so early, and inquired the reason. I received from the foreman of the shed the reply that they must begin that early in order to finish by five o'clock, as the milkers were unwilling to continue work After the other farm hands "knocked off" (quit work). The morning milking, I was informed, commenced be-

o'clock On the other hand, I repeatedly heard mention made of New Zealand as the "Laborer's Wages are high, the hours of service short, and holidays or half holidays numerous. Legislation in recent years has been extremely -pro-labor. sorts of safeguards are thrown around the la-

tween seven and eight

than the writer, expressed himself as of cialism.

borer to defend his rights. To this end of having the experience of the world as their holdings. week to \$7.50 with employment the whole tions, the monotony and lack of leisure greater population it would thus support. roustabout," i. e., laborers at miscel- indigent old age. The legislation already upbuilding of the country, the governon the steamer returning from New Zea- yet the present ruling party would vigor- of supply and demand to work it out,

grievances between employers and la- her guide, and she is boldly proceeding were private individuals or corporate up by successive awards as far as the borers are submitted to forced arbitra- to apply this experience to prevent or companies in England, and whether they industry can bear, until it comes practition, and decisions have in recent years to minimize the evils that have arisen resided in England or in New Zealand, cally to reach the maximum wage scale. been almost uniformly in favor of the la- in some of the older countries. Among they were well contented to leave the A similar thing is true also concerning borers, and, of course, the scheme works the evils that she wishes to avoid may estate as a big sheep or cattle pasture, the maximum of hours. beautifully from the laborers' viewpoint. be mentioned, the feudal system of regardless of the fuller utilization of Finally an "old age pension" act pro-Inquiries as to wages paid to farm medieval Europe, the oppression of the which it was capable under intensive vides a pension for persons over a cer-Inquiries as to wages paid to farm moderat Europe, the oppression of the farming in small holdings, and the much tain age possessing property or other A teamster gets more than a in the laborer's lot, and the horrors of Aiming to open the way to a more rapid ure. laneous work. An American whom I met enacted has a distinct socialistic trend, ment, instead of leaving the principle as to how these various laws will work land, and who visited there much longer ously disclaim advocating extreme so- passed an act empowering the government to forcibly resume the ownership the opinion that the average New Zea- To understand some of the recent land of estates above a certain limit-2,000 land laborer, whether at common labor legislation, it is necessary to go back acres of agricultural land, if we mistake own. We will certainly be inclined to or at a trade, accomplishes far less a ways in New Zealand's history. In not-and to divide it into small holdings work per hour than the average Ameri- the early days, much of the land was which they sell again to "selectors" who

limit. In resuming land under this act. any sweeping statements as to the can laborer. One thing seems clear, that secured in large grants from the crown if the owner and the government representatives cannot agree on the price, it is submitted to a board of arbitration cause of the inspiring enthusiasm over run into tens and hundreds of thousands whose decision is binding upon the owntions made and opinions heard. Repeat- his work, nor of any ennobling satisfac- of acres. After some years of hardsnip er but left optional with the government. edly I heard managers refer to the im- tion in what he accomplishes in building and almost national bankruptcy, the es- A number of estates have thus been re-

Another act which is aimed to discourage the accumulation or holding of don at a neat profit to the producers. large estates is the "graduated land tax," the wage scale and, along with it, an ly recent organization of governmental ing handsome returns and the owners smacks considerably of confiscatory leg-By this law the rate of taxa-

tion increases as the holding increases. TU to a valuation of \$2,500 there is no land tax. From this point the rate gradually increases until at £2,500 it is 1 penny on the pound. From valuation of £5,000 the rate gradually increases until at £10,000 or above it is 3 pence on the pound.

To correspondingly Eiscourage the accumulation of wealth in other lines of business than dependent upon land ownership, they a graduated inhave come tax applying to buch other business. Under this act, an income under £300 per annum exempted. Above this, the first £1,000 is required to pay 6 pence on the pound, and any income above that pays 1 shilling on the pound. On the profits of comthe maximum rate applies without any exemption.

To make it easier for settlers to buy and pay for land, the government has gone into the "money loaning", busi-On government security, the government borrows from the financial centers of the world, at a low rate, and loans to settlers at a slightly higher rate, at present about 5 per cent, with easy terms for the repayment of principal. Under factories act, the government fixes a minimum wage scale for factory employes, fixes the number of hours of work, and enforces cersanitary regulations. In operation, this

Many of these owners minimum wage scale is steadily screwed

sources of income below a certain fig-

It is too early as yet to pass judgment out in a long series of years, or to what extent that which proves feasible in a small country like New Zealand might be practical in a large country like our watch, with much interest, the results (Continued on page 141.)

conditions in New Zealand. I must con- country the "Laborer's Paradise" be- low price. The areas of many of these

possibility of accomplishing now what up the industries of the country, but tablishment of freezing works, at one sumed by the government, several of they formerly could, because of the dif- rather because of the ease at which he stroke, put a quite different aspect to them forcibly. ficulty of securing labor, or the high can live, and the freedom from necessary the utilization of land. Now mutton and lamb or beef could be exported to Lon-These estates at once commenced giv- which, to the owners of large estates,

A Day In Summer-By Mildred M. North.

WONDROUS BEAUTY OF THE MORNING. The mellow moonlight fades, and over all Steals a soft brightness as the sable pall Of Night is lifted by the rose-leaf hand Of Morning. Now the first bright silver sand, Marking the hour of dawn, slips through, released, And the pale face of the fair waiting East Flushes, then crimsons as the rising Sun Kisses her softly. In the west, like one Condemned, the moon hangs, now with visage white; She, with a borrowed brightness, through the night Shone in soft splendor. Now with features drawn Stands she in guiltiness to face the dawn. Queen of the midnight sky, too long she stayed, Too long her flight from the bright host delayed. Brightness and glory all too swiftly fled, Leaving her beggar's tatters in their stead. Faint and far off, then growing sweet and clear, Comes the first bird-call to the list'ning ear. Thrilled by the note, another songster wakes And answers, and the strain of music breaks Like the first trembling notes which greet the ear From a great orchestra. Then far and near With one accord the birds take up the strain Till orchard, field and woodland ring again With the glad matins of the feathered choir. Hundreds of dew-drops, lighted by the fire Of sunshine, glitter in the grass; each blade Upholds a tiny globe that seems 'twere made Of liquid light. As the west wind goes by-Fresh from its home where green prairies lie Rolling away in emerald waves to meet The azure sky-o'er fields of yellow wheat Waiting the busy reaper, light and shade, Billow on billow, by the breezes made, Chase one another in untiring whirls. Sweet-scented roses, white as ocean pearls, Crimson, and yellow, pink as sea shells, sway Over the low stone walls with lichens gray. Great golden bees with pollen-laden feet Buzz 'round them sleepily, dizzy with sweet. Fair is the world! O wondrous, wondrous fair! Brightness and scent and bird-songs fill the air!

Socialistic Tendencies.

New Zealand, because of her relative-

THE FERVENT HEAT OF NOONTIDE. Noontide has come, and over all there broods A hush. No bird-songs, even in the woods.

Disturb the silence. Now : nd then the drone Of a belated bee which comes alone From his long pilgrimage for distant sweet Floats through the sultry air. The fervent heat O'ercomes the flowers and each hangs its head Upon its slender stem, too tired to shed Its perfume. Where the dark green willows bend To touch the stream whose limpid waters wend Through the thick grass and over gleaming sand, Up to their knees the soft-eyed cattle stand In the cool water, stooping now to drink. Now reaching crisp green grasses from the brink. Tired with his labor, 'neath the trees' thick shades The farmer rests; the interwoven blades Of grass form a soft couch on which he lays His weary frame. Beneath the sun's bright rays All Nature droops and waits the healing balm And gentle touch of Evening's velvet palm.

1 B EVENING'S GRATEFUL, RESTFUL CALM. Shadows grow long and longer and the birds

Warble their vespers. From the fields the herds Come slowly up the lane through dew-wet grass Tasting its juicy sweetness as they pass. Darker and darker still the shadows grow. The birds are still, and stars begin to glow And flash in the dark tresses of the night. O'er the marsh we trace the fireflies' flight By fitful flashes. Rising from the bogs Is heard the harsh, discordant croak of frogs Mellowed by distance to a softer sound. Myriads of wings of insects all around Vibrate and quiver, 'till the summer night Seems filled with music. Flooding with her light Meadow and stream and woodland, glade and glen, Making the flowers dream 'tis day again, Over the eastern hilltops comes the moon Shining in light and beauty only June Lends her pale orb. Meshes of gold and gray, Cast through the treetops, o'er the greensward play. Softly the West Wind rocks each sleeping flower, Softly he steals within each leafy bower, Stops to caress, amid his fitful play, Half-opened buds he scorned to touch by day. Fair are the days when Spring's first breezes blow; And days when searching bees wing to and fro; When red leaves flutter, and when snowflakes fall; But a summer night is fairer than them all!

THE MICHIGAN FARMER.

A MISSOURI CAVE DWELLER—By Edgar White. turity. And yet he is never harsh with his debtors. At one time a friend was

in Macon county, Missouri, there dwells, le-edged ax. in the heart of a primeval forest, a fine

the little hearts of "little bright eyes."

whatsoever they pleased with everything ments.

tance if we give a brief description of the repair the stiles and fencing. cave farmer's home:

hard earth and the window is a sodded description about the place, though Mr. aperature on the north. When he goes Jones said at certain seasons of the year to bed he ascends a short ladder, and the squirrels and rabbits and birds came piled sacks stuffed with corn husks, and Some of the squirrels had become so old quilts. It is warm, and safe from bold that they would slip up and par-

packed full, so there is but room enough have a gun or weapon of any kind about for one person to pass at a time. The his place. first glance gives one the idea of a small The interpreter asked Mr. Jones why underground store. But, peering closer he lived all alone in such an isloated under the candle's dim rays, one sees a place. The old man shrugged his shoul-

Five miles out of a little mining town order, are a garden fork, spade and doub-

When Mr. Jones came from Wales to old Welsh gentleman who for forty years America 40 years ago his capital was the has known no home other than the lit- clothes he wore and a strong constitution. "Here, Dave," tle dugout cave he made to hold the land. He took up a railroad claim amid these money; "there is more if you want it; John G. Jones is the name of this rolling lands, built a cave and settled when you get well pay me back if you sturdy old hermit, and he will be re- down. The spot he selected was an ideal can; of you don't all right." membered by the children of his neigh- one for the lover of nature, and he soon borhood long after the governor and became a picturesque part of the land- ed to, he could dwell the balance of his other great men of the state are forgot- scape. His home was established on a days in the best hotel in the county, or For he has been to them the "good small promontory, well-drained and pro- he could return to Wales and enjoy life man of the woods." For many years he tected. His first money was earned by amid the home folks, which would mean taught a Sunday school class in the lit- raising potatoes, which he loaded into a all the conveniences and luxuries of modvariably brought with him in their sea- The returns were small, but so were the appeal to him. He shakes his head and son a basket full of strawberries, black- hermit's needs. Little by little his sav- smiles wistfully. berries, apples, pears or persimmons. ings grew. One day a neighbor was "This place is the healthiest and pret-In the fall the basket would be overload- wondering where he could raise a few dol- tiest," he said. "When a man has lived ed with large hickorynuts and walnuts lars. To his surprise Mr. Jones said he this way almost half a century he begarnered on the creek bottoms, or black could accommodate him. A note was comes established. There is too much haws and wild berries. He never forgot, drawn bearing the legal interest. The noise in town; you can't think well." and if his classes were a little larger and incident was related and others went to more enthusiastic than others it was the man of the wilderness for financial looked craftily around and then ran up because he, himself a veritable child of accommodations. Mr. Jones soon had all the side of the cave and sat down on nature, knew better how to get closer to his money invested, yet he tolled in his the comb of the thatched roof. The hergarden patch and in the harvest field for mit threw a crumb of bread up, which The hermit's queer little home in the others as diligently as ever. He sold his the little animal caught and eagerly deforest was always a source of eager in- claim, retaining only two or three acres, voured. terest to his young friends. To the on which stands his curious little home children it and the grounds about were and such odds and ends as are rarely towards the thick forest, "Where will the land of liberty, and they could do seen even in the most primitive settle- you find such as these?"

In the enclosure, carefully fenced by that took their fancy. No sharp voice In the enclosure, carefully fenced by warned to "drop that." None said: "Don't hedges, everything is as neat and wellgo there!" While there "the earth and the ordered as in a city park. Across the fullness thereof" were theirs, and the drains are mossy bridges, sparkling with only bitter thing about it all was that violets. On the upper part of the tract they could not throw off the shackles of is a tall round stack of poles, which at civilization and live the luxurious, un- a distance looks like an Indian's wigfettered life of God's good man of the wam. At the base of these poles are old rusty stovepipes, all neatly arranged side Perhaps it will be an aid to his acquain- by side; pieces of boards and stakes to

When the writer visited the hermit The floor of his bedroom is the cold, there was not a dog, cat or animal of any wis into a dark shelf, on which are to see him, and were great company. water that might trickle in during storms. take of the food he was eating. He never On all sides of the cave are shelves killed any of these, and, in fact, did not

variety of articles in which no storekeep- ders and smiled kindly. "It is home,"

taken sick and put to great expense for doctor's bills. Jones took his cane and tramped over the country to see the men who were owing him. He raised a thousand dollars and handed it to his friend: he said, tendering the

Mr. Jones is over 70 now. If he wanttle church hard by the forest, and he in- basket and carried to the village market. ern civilization. But the idea does not

A squirrel crept up to the hedge fence,

"Comrades!" he said, waving his hands

AS GOOD AS A BOY.

BY Z. I. DAVIS.

"Papa, why can't we have a pretty white house, and an automobile like Gladdis Warren has? now in their runabout with four of her city friends. I think that she might invite me once in a while for a ride. Tonight they are going to have a corn roast and melon party. The yard is to be decorated with jack o'lanterns and flags." And Bessie Lee cast a wistful glance after the honking motor as it bowled out of sight.

"It must be on account of having my boys both girls," replied her father, tantalizingly.

The words had the desired effect, and the young girl bit her lips in vexation. Whenever she was tempted to murmur at her lot, he was sure to remind her that she ought to have been a boy. 'Then," he added, "you might help me to break up the marsh land so that we There are ten could make it profitable. acres of ground on which I pay taxes year after year, and I do not derive one cent of profit from it. If it was plowed and harrowed it would take the time of person all summer to subdue the

"About all girls are good for is to chase the hens, and tease their parents, and make other folks uncomfortable." There was a serious look in Mr. Lee's face as he relapsed into silence. He had never spoken quite so plain before, and Bessie was deeply cut by his sharp words.

She was made aware that she had not greeted him very kindly after his hard day's work in the field. Instead of showing gratitude for his self-sacrificing drud- point. gery, she had found fault because he did not do more.

She felt that she had deserved the rebuke. Closing her lips firmly she resolved to do something worth while. As her mother washed the dishes in silence, she narrowly observed her daughter's conduct. The girl was high-spirited and self-willed, but there was one thing in her favor. When she saw a way better than her own, she was quick to fol-

There were many reasons why her fond of them." mother wanted Bessie to make a success in life. One very good one was that Bessie's younger sister, Aleta, tried to do just as she did.

That night as they sat around the reader would dare risk investment. Every said simply. "I started in this way and ing table, an item in the city daily ar- returned with her arms full of flowers. "Wantedrested Bessie's attention. Black-Eyed Susans and Tiger Lilies for long to fill the small trunk and valise. decorating with color schemes. cents a dozen will be paid for all per- them. fect varieties."

She held her breath in astonishment. lot was a yellow blaze with wild sun- her ticket in her hand. flowers or black-eyed Susans. And the muck land was overgrown with marsh grass and tiger lilies. A good deal of thought was crowded into the next few minutes, as she rapidly evolved a new plan in her inexperienced cranium.

"I will say nothing to father and mother about it until I find out whether it plan that she had in mind.

THE VISIT.

BY LALIA MITCHELL.

Me're going for a visit,
Maybelle, Marie and I,
I know she's very little
But hope she will not cry.
She wears her hair in ringlets,
She keeps her dresses clean,
And is the bestest baby
That ever I have seen.

We're going for a visit, Marie, Maybelle and I;* To be a model mother I really mean to try. So when I think she's sleepy



Her crib I do not rock ut bring her up, by science And feed her by the clock.

We're going for a visit,
Marie, Maybelle and I,
Away up state to Grandma's—
"There, Baby, hush-a-bye;
I s'pose that they will spoil her
And maybe me, as well,
But both of us will like it,
So, Baby, don't you tell."

ing her purse, she counted out a dollar in nickles and dimes. That was enough to pay her fare both ways to the

From infancy she had been taught of a Heavenly Father's care over His children, and so before retiring she made her plans a subject of earnest prayer.

The next morning, after obtaining permission to visit her aunt in the city, she brought down her trunk and suitcase from

Alarmed lest she was planning to run away, her mother urged Mr. Lee to take Bessie to the depot; buy her a ticket and wire the aunt to meet her upon her arrival.

"If she runs away," he argued, "she'll be glad to run back again, in my opinion. It's a busy time to stop plowing and go to town." But the white, pleading face of his wife led him to yield the

"What in the world are you going to do now?" asked her mother as Bessie drew on her father's rubber boots, armed herself with a sharp hoe and started toward the swale with a pair of sheep-

"How close everybody watches me," she thought. Aloud, she replied, "Do you not think Aunt Cynde would like some wild sunflowers and lilies?"

"Why, yes! How nice of you. Now I do remember that she is especially

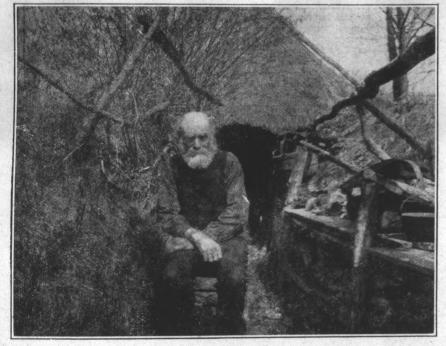
Completely disarmed of suspicion, Mrs. Lee encouraged her to gather a bouquet. but to hurry, as her father must not be kept waiting.

With a of exultation, Bessie soon There were so many that it did not take Fifty A mass of damp moss was packed around

"She'll think you are the whole thing," laughed her patient father, as he checked Why! the swale that joined the pasture her baggage at the station and placed

"Bless you, dear. How glad I am to see you," was her aunt's hearty greeting as she arrived in the city at an early hour. "Let me call a hack for your luggage. I am glad that you have come to make us that long promised visit.'

Thereupon Bessie confided to her the the entrance, standing in workmanlike er in never allowing a note to run over succeeds or not," she told herself. Open- are full of wild flowers, Aunty," she said



burying himself in the forest is bottle, can and jar he has emptied is stored safely away, because the frugal hermit allows nothing to go to waste. There are knives, parts of locks, belts, railroad spikes, nails, coils of wire, almanacs, lamp shades, shears, funnels, an-"world without cient magazines, etc., Then, beneath the shelves are baskets full of packages, all containing Welsh almost exclusively, he can figure articles of value to Mr. Jones.

shoe, coat and hat Mr. Jones has worn just got used to it. I like it-in fact, I love it. You people don't understand. carefully preserved in its proper place The woods, the water, the birds, and the among the articles of its kind. Every little animals that run through the yard are all friends. I never feel lonely. And, then, my home is safe. No storm can blow it away; it carries no mortgage; it'is all mine. Life is good-I enjoy it!"

Mr. Jones is worth in the neighborhood of \$15,000. All of this is in banks except what is loaned out; he never keeps anything about the cave. Although talking the interest on notes with remarkable The cave is propped and cross-tim- accuracy. He does this entirely in his bered with beams like a coal mine. At head. He is as prompt as a good bank-

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with suppressed enthusiasm, "and they are for sale to the highest bidder.

"Well, well," was the curious response. "If they are in perfect condition," replied her aunt, "your coming is nothing less than providential. There is a golden wedding anniversary at one of our neighbor's tonight. The main room is to be trimmed as nearly like a woods as possible. The decorator wants yellow flowers and I was asked to order all the blackeved susans and tiger lilies that were on hand at the florist's. He wants them as soon as possible, and you will receive a higher price by disposing of them there than you could get at the greenhouse. Just let me look at them, lass," smiled her aunt.

Bessie turned the key in the lock of the trunk and raised the cover. Her aunt threw up her hands in a little ecstacy of pleasure.

"My dear! they are beautiful!" she exclaimed. Then calling a hack driver, she requested that they be taken to the home of her friend.

After a close examination the decorator assured her that he could use them all, even the ferns and moss in which they were packed. "They are the nicest I have seen this season," he remarked, and are worth 75 cents a dozen. Here is a check for the entire amount. Bring or send all you can to me as long as they last and I will pay you the same price.'

Bessie stood speechless with happy astonishment as she looked at the figure in the check. There was \$9.50.

"It is nearly dinner time," reminded her aunt, taking her arm and leading her across the street to her rose-trellised home. As they drank their cocoa amidst pleasant conversation, her aunt urged her to remain "for a week's visit."

"Will you please let me postpone it until after our flower harvest," asked. "The outlook now is that I can be worth as much as a boy to papa and mamma, and if I earn enough I can attend college."

"As sure as I live, Bess is coming up the path," exclaimed Mr. Lee that night after supper.

"Wits are as good as muscle," he chuckled, as she finished telling her experience and produced the check. "I'll never say again that I am sorry you are not a boy.

"She is no dead-head," laughed her mother, with a glance of pride.

"That is just what I have always de-clared," responded her father, "and where is there a better place than the farm?"

NEW ZEALAND-LABOR CONDITIONS AND GOVERNMENTAL PROBLEMS.

(Continued from page 139.)

of these experiments. If New Zealand succeeds well, thus in the beginning of her career, and with the experience of other and older nations at her command, surely these other nations will gladly let her be the world's experiment station to try new theories of government. We are made to wonder if a forced minimum wage scale, a maximum hour law, and an old age pension, will make individuals less provident, and if it will not retard progress by taking away the incentive to do one's best by thus, putting all on the same level. We wonder if graduated land and income taxes will drive capital out of the country, and, if so, whether the state can take the place of private capital in developing the industries of a country, including agriculture. We wonder, too, if it is safe legislation to establish a principle that makes it a function of the state to forcibly deprive a land owner of his freehold at a price that may or may not be acceptable to the owner. for the purpose of again using it as farm land. To New Zealand we would say, "Go on, fair Isle of the Southern Seas, You have tackled big problems and the eyes of the world are upon you. We trust that you are equal to the task before you and, most heartily, we all wish you well."

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with an iron grate—put there to stay—you can see it. No heat escapes, or cold air gets into the oven, thus with but half the fuel used in other ranges, you get an absolutely even, dependable baking heat.

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Heated like a tea kettle through copper pocket (stamped from one piece of copper) setting against left hand lining of fire box, Boils 15 gallons of water in a few moments and, by turning lever, the frame—and reservoir—moves away from fire. This feature is patented—found only on the Majestic.

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Elephant Head



CULTIVATING JOYOUSNESS.

CINCE I have learned never to exthing as justice between man and man, on them. Put them out of your mind, therefore I no longer look for it and cease to expect justice for yourself and thus I am spared many a pang. With look for your happiness in working hard this attitude I am trying to cultivate the and thinking of others. spirit of joyousness, and life has lost much of its bitterness.

resolution to put it into practice in your ing over them and sighing for justice. If pattern, a pencil or other small round own life is strong enough to hold out a frank talk does not mend matters, try object serving as a guide. to the end. Half the unhappy people in the world are unhappy because they are not getting what they think they honorably with others no matter what work, each petal being represented by an deserve. The way to be happy, then, is to cease thinking of your desires, to accept conditions as they are if you can not change them, to throw yourself soul and body into some work and to forget the thorns. After awhile they will cease to trouble you, and then for you they no longer exist.

Perhaps you are the odd one in a large family and you think your parents do not treat you as kindly as they do your brothers and sisters. Well, maybe they don't show you the same favors as the rest, for, wrong as it seems, the number of families where partiality is shown is larger than those in which strict justice is observed. But then there may be a reason. Your brothers and sisters their attitude towards you. In this way oval, with an eyelet in the center. Small may be pleasanter to live with, for if only can you keep your self-respect, with-leaf forms are also converted into ovals you are given to thinking of injustice you are probably given to moods. Probably the other children are jolly and lighthearted and fill the house with sunshine, while you are quiet or even taciit is more than likely that they are a bit selfish and take what they want, while you with your ideas of jus- books, bright songs, the funny things the then made of slightly heavier outlining or tice and fairness wait for someone to children do, your neighbor's quaint re- stem stitch. give you what you want. That may be marks. Anything which turns your mind the secret of what you deem partiality, from introspection towards others, will is to run them in a row in the center tit may be that the others take what you tend to put a bit more of the joy of livthink father and mother give. If so your ing into your life.

The deges being outlined or worked in stem stitch remedy is to wake up and help yourself.

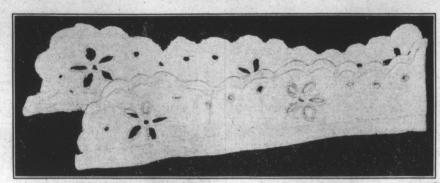
Finally, forget. Forget the unpleasant, or overcasting. This creates a more delwho waits for gifts. The one who cease to exist. demands is the one who gets.

pect justice in this world I am be- of what you deem unfairness or no, you coming happy. There is no such aren't going to help matters by dwelling

Perhaps you are married and the injustice comes from your husband or A good bit of philosophy, isn't it? And his family. The same rule holds good, decorations for various articles, and these that should work out well if your you will not make things better by brood- can be laid out without the aid of a to ignore conditions entirely. Determine to live well yourself, to deal fairly and flowers, are very often made in eyelet

portion of the eyelet, while the part which will be cut out later to form the scallop is buttonholed, this edge being wider than At any rate, whether this is the secret the other, after the manner of the one This wider side is shown in the sketch. of course padded a little more than the The scallops may be rounded or pointed. Other scallops are made with an oval at the juncture of every pair. Long rows, scrolls, circles, etc., composed entirely of eyelets, usually of the size throughout, form charming

Daisies, forget-me-nots, and similar



out which you can never expect even at an imitation happiness.

If you are a nature lover it is easy for work. Each wheat-ear or head is made there is always something out of doors to as an oval, with a short row of fine overgive you cause for thankfulness and casting or outlining projecting from the praise. If you are not, then it must be tip to indicate the beard. The stem is

The world has nothing to offer to the per- the unjust, for by your forgetting they

DEBORAH.

The wheat-ear pattern, a times. dainty, effective one in most styles of Then cultivate joyousness. But how? needlework, is extremely so in eyelet

Another pretty usage for small eyelets icate effect than solid stitchery, and is quite as well adapted to the figures, as a general thing, much depending upon the character of the remainder of the design. All parts of a design must of course harmonize nicely.

HE great hindrance to our Fresh Air work is that so many people do not want to help a child unless majority of the children coming to us those offering homes," says Miss Alice M. Hewitt, of the Michigan Fresh Air "It makes it hard all around, Society. to have the care of a strange child who is unattractive and puny. At the same time, they are the children who need help most, and it is in taking them that the real charity is shown. A pretty, bright

"Then the stories the children tell, occasionally hinder our work. Children are born romancers and out in the country they frequently tell wonderful tales of fine clothes they have at home and the large house in which they live. As child who is not absolutely in need of help. I personally go to every home and investigate conditions before sending a boy or girl out. We guarantee to see that they have one good outfit to travel in, but that is all we can do as to clothes, and I am afraid the poor clothes of some have discouraged many of the women who have kindly opened their homes to the city's poor.

remainder of the design is different, ed to the call for help, but unfortunately Then too there are numerous attractive some of those asking for a child are so scallops made with eyelets. For in- far from Detroit as to make it impossible stance, a row of small scallops are made, to take the boys and girls. A day's each with an eyelet in the center. The journey is out of the question, usually,

AT THE PARSONAGE

Coffee Runs Rlot No Longer.

"Wife and I had a serious time of it while we were coffee drinkers.

"She had gastritis, headaches, belching and would have periods of sickness, while I secured a daily headache that became

"We naturally sought relief by drugs without avail, for it is now plain enough that no drug will cure the diseases another drug (coffee) sets up, particularly, so long as the drug which causes the trouble is continued.

"Finally we thought we would try leaving off coffee and using Postum. I noticed that my headaches disappeared like magic and my old 'trembly' nervousness left. One day wife said, 'Do you know my gastritis has gone?'

'One can hardly realize what Postum has done for us

"Then we began to talk to others. Wife's father and mother were both coffee drinkers and sufferers. Their headaches left entirely a short time after they changed from coffee to Postum.

"I began to enquire among my parishioners and found to my astonishment that numbers of them use Postum in place of coffee. Many of the ministers who have visited our parsonage have become enthusiastic champions of Postum." given by Postum Co., Battle Creek, Mich. Read the little book, "The Road to Wellville," in pkgs. "There's a reason."

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



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EYELET WORK-BY MAE Y. MAHAFFY.

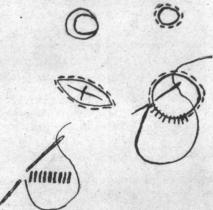
the major part of the design takes the are caught underneath by it. form of open disks or ovals, and these The little collar shown includes both are usually referred to in a general way eyelets and ovals. This style collar may is necessarily a sort of sober or cold look many loops and ends of narrow ribbon, for I can understand how anyone hates to solid white work, but when eyelets enter into the design they lighten the effect, producing a lacy, airiness of detail which is fascinating.

While eyelets are not dnfficult to make, it requires considerable practice to be able to make them well. They must be made very even and exact as to size and shape. The round holes are punched with a stiletto, a sharply pointed instrument made for the purpose. The ovals are slit with sharp scissors, first lengthwise, and then across the widest part. The overcast stitch, shown at the bottom of the sketch, is, as its name implies, a simple over and over stitch, equal in length throughout, close set, with no overlapping of the threads, yet no gap between stitches.

In working the eyelets a row of running stitches, longer on top than under- may be substituted. neath, are placed around the stamped directly over these stitches, which serve the edge. The placing of these running eyelets shown in the drawing. The center of the oval also indicates how the The raw edges are material is cut. rolled back under the finger and thumb inside edge is simply overcast around that as the cost of car fare is so great and

In English embroidery, or eyelet work, in the overcasting process, so that they MANY HOMES OPEN TO THE POOR.

In the Maderia and French be utilized as a turnover, or be worn laid embroideries, two of the most beauti- directly on the band of the waist, as the it is pretty, healthy and good. As the ful forms of needlework in existence, eye- Dutch collars are worn, the narrow eflets are a distinctive feature, combining, fects being in favor just now. With it for aid are not pretty and not overly as they do, with solid work and fanciful a tie of narrow black or colored velvet strong, you see we find it hard to please stitchery. Eyelets are used in both white should be worn, tied in a prim, short-and colored work, but are peculiarly looped bow, with very long ends, comparadapted to all white embroidery. There atively. Or, the new bows or jabots of



bedecked with sweet peas or rosebuds

Oftentimes the eyelets may be used in outline. The overcasting is then done a design intended for other work, for there are frequently small disks or ovals as a slight padding, and also strengthen which will look well cut out, although the stitches appears in the oval and in the Then, too, there are numerous attractive

child is never at a loss for friends.

matter of fact, we never send out a

Michigan Farmer readers have respond-

the parents on not want the children so the experience will still be worth all the

Lee, found homes in his neighborhood for or country. eight children. The children of the "refined German woman," mentioned in a previous article had many offers of help and were quickly provided for. In writing address The Michigan Fresh Air Society, 406 Washington Arcade. Be sure to give references as to your reliability.

COUNTRY GIRLS' CHANCES IN TOWN. BY HILDA RICHMOND.

For the girl fitted to teach school there are always openings in the larger places. Many of the cities issue circulars of information to guide prospective teachers, setting forth the course of study and regulations, and giving all necessary information in regard to becoming an appli-cant for a position. To the girl earning forty or fifty dollars per month for eight months per year in the country or village, six or seven hundred dollars per year looks very large. Without stopping to take into consideration the short vacation, tedious reports, much red tape and other disadvantages of the city schools, the young girl becomes a part of the vast machine and loses her identity almost entirely. If a teacher can pass good examination she has a good change to enter the city schools, since more and more city teachers are deserting the ranks, especially the men, claiming they can not live on the scanty pittance handed out by those in school authority. The girl fresh from the country has all that to learn, and therefore is a willing applicant for the place made dirt. Set the fern in a north window, as vacant by the departing man.

Generally speaking the country teacher need fear very little in preparing for the city school, though there are many fads and follow forced upon the pupils in some of the large public schools. The "Three R's" still show the ability of the teacher to the board of education in many places and the smaller things are overlooked. It is safe to say that any girl who is above the average in the common branches, and is quick to take up with new ideas, can find a place in some city school without much trouble. Of course the girl who is teaching in the country simply for the money that is in teaching will never be a success anywhere, and she cannot easily hide her short comings. And the girl who is going to the city to apply for a school to enjoy herself, aside from her school duties, might as well remain where she is. Indeed it is positively wicked for any girl to teach school when she frankly admits to her friends that she "just hates" it. The poor children under her care will be cheated, and she will cheat herself as well into the idea that she is really earning her money by remaining in the school room with them.

The country teacher who wants to try for a place in the city should not be discouraged because she has no influential friends to help her. Politics do control some schools in a shameful manner, making it impossible to get a position unless you have influence with the ring, but the girl is better off to never have place in a city ruled like that in its educational circles. The ability to pass a good examination, a quiet, modest bearing, sensible clothes and a real desire to help the children are quickly apparent to the keen men who hire the teachers in the good schools, and country girl should have all these before planning her campaign. Then the rest is easy.

her campaign. Then the rest is easy. In spite of all, the dismal groanings of the pessimists, the world is full of places—good places—for earnest workers and in every profession there are vacancies at all times only waiting for workers who are large enough to fill them.

The six or seven or more hundreds of dollars will not look nearly as large to the girl teacher after the first year, as they did 'a the country, but the experience will do her good and she will learn to value her country home all the more. To the good teacher who is dissatisfied with country or village conditions and who thinks a city holds great opportunity for advancement, the best advice is to tell her to go ahead. If she finds her ideal work in the city school room, well and good, but if she is disappointed

No. 5425 Girls' Dress Closed at the Back. Cut in sizes 3% yards of material 27 inches wide or 3 yards of 36 inch material. Price, 10 cents.

No. 4530, Boys' Russian Suit. Cut in sizes 2, 4 and 6 years, For 4 year size it requires 2½ yards of 36 inch material. Price 10 cents.

No. 4019, Ladies Princes Silp. Cut in sizes 32 to 44 inches bust measure. For 36 bust it requires 1½ yards of 36 inch material. Price 10 cents.

No. 4091, Ladies' One Piece Corset Covert. Cut in sizes 32 to 48 inches bust wards of 17 inch flouncing. Price 10 cents.

No. 4646, Ladies and Misses' Middy Blouse Waist. Cut in sizes 30 to 40 inches bust measure. For 36 bust it requires 1½ yards of 44 inch material, 1 yards of 44 inch material, 1 yards of contrasting material 27 inches wide or 3 yards of 36 inch material. Price 10 cents.

No. 4019, Ladies' One Piece Corset Covert. Cut in sizes 32 to 48 inches bust wards of 17 inch flouncing. Price 10 cents.

No. 4646, Ladies and Misses' Middy Blouse Waist. Cut in sizes 30 to 40 inches bust measure. For 36 bust it requires 1½ yards of 44 inch material. Price 10 cents.

time and effort she has expended. It may Among our readers who have opened look impossible to get into the city their homes are: Mrs. George Lossing, schools, but it isn't at all. On the conof Yale; Mrs. Ray Ott, Albion; Mr. and trary there are many positions open to Mrs. W. O. Tobias, Shultz; Mrs. Frank the teacher with ability and all she has S. Baldwin, Berlin; Mary Easson, Osh- to do is to "go up and possess the land." temo; Mrs. Mary Palmateer, Cass City; Of course it takes planning and work Miss Mary Riddle, Howell; J. C. Bacon, to get into the desirable schools, but Blanchard; Mrs. Cecil Bowerman, Chief; there are no places waiting to drop into Mrs. Edgar Case, Benzonia; Reuben A. the hands like over-ripe fruit these cays. Lowell; Mrs. E. D. W. LaForge, If the position is not worth making an New Baltimore. L. H. Allen, of Ovid, effort for it is not worth having in city

HOME QUERIES.

Editor Household Dept.—We wish if the Editor or readers of the Woman and Her Needs in the Michigan Farmer know how to exterminate the buffalo or carpet bug, they would tell how to do it as soon as possible. This is the time of the year when they do the most damage and make housekeeping a burden. Mrs. T. C. C.

The usual remedy for buffalo bugs is gaseles. Drench the edges of the rug or

gasolene. Drench the edges of the rug or carpet with gasolene and pour it in the crevices around the baseboards. Then close the room for 24 hours, being sure not to take a light in it in the mean-Open in daylight and air thoroughly. If the carpet is badly infected take it out doors and beat well on the wrong side. Then spread out on the floor, drench the whole carpet in gasolene, roll up tightly and leave in the closed room for 24 hours, airing at the end of that time. Marion Harland recommends one tablespoonful of red pepper mixed with one pint of wood alcohol, shot into the cracks in the room with a syringe. Wet the edges of the carpet, also, with the liquid. A lump of camphor crushed with the pepper helps. process may have to be repeated several

Editor Household Dept.—Would you tell through the Woman's Department how to treat a fern? My fern has thin leaves. Mrs. J. T.

Your fern probably needs repotting.

Put a generous layer of manure in the bottom of the crock and fill with rich it thrives better out of the sun, and then do not move it. Moving a Boston or sword fern always puts it back. Be sure not to touch the little curl on the end of the leaf as this will stop growth and the leaf will turn brown and die. Some recommend pouring a tablespoonful of castor oil around the roots occasionally. Water when the ground seems dry.

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ATTENTION! MICHIGAN GRAPE GROWERS.

belt will undoubtedly be interested in a quoted close to \$40.00 per M. The Co-Opserious rival of the Michigan section in the production of this important basket situation.

Portland, Brocton, Fredonia, Dunkirk and Sheridan, and comprising at least fifty this pest. All grape pests have been per cent of the acreage of the entire section was made this week by your corre-

The most important fact discovered, inso-far as it affects the Michigan grower no rot or mildew thus far reported, and is that the Chautauqua county crop is will be none unless most unfavorable most unusually far advanced for this time weather conditions come on in August. of year. Grape clusters are fully grown, a condition not usually reached until

August 1st to 15th. The growers who CONVERTING GRAPES INTO GRAPE
keep a record of these events say that

JUICE. blossoms appeared three weeks earlier than usual this spring, and that weather conditions, especially the hot spell from June 25th to July 15th served to keep conditions as far ahead of normal at all times up to now, as they were in blostimes up to now, as they were in blossoming period.

August comes on the early grapes will ical than the individual, the latter's out-begin to go to market almost by the put usually has a more desirable quality middle of the month, and Concords by the first week in September; whereas in normal seasons there has been no mate- as much or more from the sale of the rial shipments of Concords from this sec- goods as the manufacturer. rial shipments of Concords from this sec-tion before September 15th, and usually mented grape juice may be made with none until the first Monday after Sep-or without sugar. Here is a recipe where none until the first Monday after September 20th.

The point is that unless the Michigan grapes are equally and abnormally early heat to a simmer and hold there for the Chautauqua crop will "butt into" the half an hour, after which the pulp is Michigan crop before it is fairly started to the consumer. And Michigan growers should be informed of this situation so that they can be ready to rush their crop at the very earliest possible moment consistent with properly ripened fruit.

The Chautauqua crop looks to be in first class condition. The fruit clusters are well set, not sufficient in number to at once. warrant expectation of a "bumper" crop, but sufficient to indicate a normal, averorable, hot and with occasional showers, except in a few scattered localities which boiler. set somewhat "scraggly" instead of being solid.

of a ten year average, in spite of generally expected falling off in production seal. per acre. The belt is extending eastward rapidly, and well posted grape men estimate that there are now between forty and forty-five thousand acres of vineyards, as compared with 30,000 acres twelve years ago.

Getting down to brass tacks on forecast on the actual size of the crop is a difficult matter. Last year's crop was not far from five thousand carloads. The year before there was a "bumper" crop, something over 7,300 carloads. The ten year average is not far from five thousand cars, one bad year six years ago pulling down the average as last year's crop in Michigan will affect her average. With this in view it is safe to predict an average crop here, but not an averwas the largest crop ever harvested in vines, baskets of grapes." So to be conservative, your correspondent, well aware of the difficulty of prophecy, and calling atetc., is looking for a crop not far above new life. While a bumper crop is five thousand carloads.

The market outlook, locally, was never better. One grape juice company alone is in the market for ten thousand tons, an increased amount over last year, and the wine makers will purchase freely unit. If the melon crunches it is ripe and less the price level is above them. The ready for eating.

co-operative shipping association largely increased contracts, and will ship close to fifty per cent of the crop.

Eight pound baskets have sold freely the past three weeks for \$19.00 per M. Some baskets have changed hands as low as \$18.00 and others as high as \$21.00. The twenty pound basket is in strong Grape growers in the Michigan grape demand for the bulk shipments, and are report on the grape conditions in West- erative Shipping Association supplies its ern New York, which is at present the contract growers handling baskets at cost, and this has served to clean up the

A severe outbreak of "leaf hopper" has An inspection of the entire central part afflicted the vineyardists of the east end of the Lake Erie Valley grape belt in of the belt, but they were kept well un-Chautauqua county, including the vine- der control by all growers ready to use yards in and around Ripley, Westfield, the spray pump freely. The black leaf tobacco extract has proven a specific for present in good number, but spraying is becoming much more general, and vineyard conditions show good general improvement in spite of the pests. There is

A. M. Loomis.

New York.

While large grape juice manufacturers Onless a very seriously cold month of can make a product much more economical than the individual, the latter's outwhich enables him to secure a premium for it on the market and thereby make Unfersugar is used:

Wash the fruit carefully, crush and heat to a simmer and hold there for crushed again, strained and squeezed through a cloth bag. Return the juice to the fire, boil and skim, after which, to each pint of juice, one-fourth pint of sugar is added, allow to dissolve and then the whole boiled for five or six minutes. Bottles are scalded out thoroughly, filled with the juice while still hot and sealed

The following recipe dies not require Wash the fruit, boil and press sugar: age yield. The season has been very fav- out the juice. Clean bottles and place on a false wooden bottom in the clothes Pour the juice in the bottles the showers seemed to miss. The grape until all are full, and then put water berries are large, and well filled, but around the bottles until it comes up well the bunches are shorter than usual, and about the necks. Bring to a boil and continue for about ten minutes. one of the bottles and pour into the There is a largely increased acreage in others what is necessary to fill them full new bearing this fall, which should serve as some of the juice is likely to evaporto keep gross production up to the level ate during the boiling. While the bottles are still hot cork them tight and

There are other recipes for preserving the juice of the grape. These are representative of the two ways of manufacturing the unfermented juice and we believe, if followed carefully, will give very satisfactory results.

PEAS RIDDED OF THE APHIS.

The writer sowed peas the third of They were blossoming July 30. Glancing at the vines, after returning from a trip, he observed that there was something wrong, and on investigation found that the plants were nearly covered on the underside with the pea aphis. A few rods distant were other peas that had been planted about three weeks beage crop, eliminating the one bad year, fore and they were almost free from the Well posted men differ materially, one insects. Early peas are less apt to be good grape man saying Monday that it troubled by this pest. We jarred the knocking the insects the belt, taking increased acreage into rows and then thoroughly stirred the soil account another, equally intelligent say- hoping thereby to kill many of them. ing, "There will be a lot of disappointed This operation was repeated several grape growers when they count their times. We found that it diminished the trespassers and within ten days the vines were nearly free from the pests, and except for a few plants which were so tention to the possible damage in the en- badly damaged that they were removed, suing four weeks from storms, hail, wind, the patch now appears to be taking on looked for we now hope for a yield that will reward us for our trouble.

To determine when a watermelon is or close to one-sixth of the entire crop, ripe place both hands on the top and Every grape juice manufacturer will use press downward quickly, being careful not to place the weight of the body on

iome

One of Tens of Thousands

Not a miracle. No home protected as this one is ever was destroyed by lightning. It is made safe by

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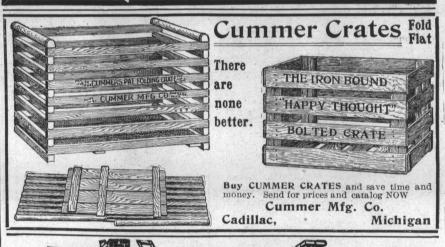
of buildings by the Dodd System, because it is to their interest to do so. The Dodd System of lightning rods prevents all lightning losses, which means prevention of three fourths of all fire losses.

Our men are trained and skilled. They are able to rod your buildings correctly. That is all-important. Our personal, binding guarantee is issued to you on their work. Don't wait until it is too late. Send today for fine, large book on lightning, its laws and how to control it. Gives Prof. Dodd's great lecture, many vivid lightning scenes, resolutions of insurance companies, guarantee, etc. Free.



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GRANGE

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

THE AUGUST PROGRAMS.

Suggestions for Second Meeting. "Work without rest is like bread with-out yeast—it is hard and heavy."

Intersperse this program with songs from "Song Knapsack."

COUNTRY LIFE CONFERENCES—II.

In Virginia, country life matters are given attention in what is called "Rural Life Week" at the University summer school, at Charlottesville. The practice was begun in July, 1908, just previous to the appointment of the Country Life Commission by President Roosevelt. This is a significant fact, but not the only one in connection with that week.

Thirteen hundred students, most of them teachers in Virginia's rural schools, attend this summer school and hear the living messages of the speakers in the conferences of Rural Week. But the printed report is the vehicle which conveys these messages to by far their larger and others. This is Virginia's modest way of making its "humble contribution"

Manton, has a large membersnip and one of the best lecturers in Northern Michigan.

Other subordinate Granges in the county are doing good work, but it has not been the writers privilege to visit them, for which reason he cannot speak as definitely of their condition.

The Wexford County Pomona recently held a splendid meeting at Manton. Resignations were received from the worthy master and lecturer, but these vacancies were promptly filled by electing Bro. Allison Green, of Manton, master, and his excellent wife worthy lecturer. This insures for Wexford Pomona a splendid future.

The Grange, teachers, and business men of the county organized an educational association last winter in line with the Hesperia movement. An enthusiastic meeting was held at Cadillac, directed by Deputy State Master McClure, and the meeting this year promises to surpass the former one in every way. Gatherings of this kind are very popular in Oceana county, and splendid results have been achieved through them. If the patrons and citizens of Wexford county take hold of this movement with a will and a purpose to succeed, it will mean much for them in the near future. way of making its "humble contribution" to the wide-spread effort to make farm JACKSON POMONA'S FIRST ANNUAL that should be made a part of the regu-"more profitable and pleasurable." At the conference itself, however, one from out of the state listens in surprise and wonder at what the rare Old Dominion is doing besides this for her rurpeople. You hear about her demonstration work for farmers, showing them how to double and treble the yield of crops on "worn out" soils. You marvel at the progress made in successful consolidation of schools and improvement of You are delighted at the stories and reports of the boys' corn clubs and the girls' tomato clubs. While in some of these respects the state is in advance others, you discover that conveniences about the farm homes have not increased as rapidly.

The object of Rural Week is to bring every phase of country living to the light and open it for discussion. Eighteen persons from ten states and the District of Columbia presented these phases of farm life. Almost every speaker was a specialist, giving his or her life work to the matter upon which he was heard. Rural Week brings these people together with the great body of teachers and shows all the inter-relations of their various lines of work. It does good in broadening the outlook of all. It humbles while it inspires by informing what great forces are at work to better humanity and home to solve its farm problems. Because of its doing this, the plan of holding conferences upon country life is to be commended. By all means let us have one of these once in a while. You don't know how narrow and prejudiced and ignorant of many things you are until you have sat in such a conference. It does farmer, teacher, minister, business man, and ation. farm woman, all, good to confer together concerning the things they can do to-gether for mutual benefit. Then, wel-

ferences bring out, the facts of the Grange shine with a steady light. Every patron, as he sits in such a council, recognizes it. He realizes as never before what the Grange has done for its own members. He sees it as a place where, twice a month, year after year, farm men and women have gathered to talk over the very same questions of financial co-operation, of rural school betterment, of increased yields in crops. of conveniences for farm homes, of so cializing agencies, etc. He feels that

bath rooms and front porches, more lawns are mowed, and more people get out to see their neighbors than would otherwise occur. In short, he feels as never before the steady and strong pull of Grange JENNIE BUELL. influence.

GRANGE ACTIVITY IN WEXFORD COUNTY.

Clam Lake Grange built a fine two-story hall last year. The Grange is located near the city of Cadillac, but succeeds admir-

Roll call, responded to by each naming an evidence that the world is growing wiser, brighter or better.

Co-operative ownership of farm machinery—is it feasible in this locality? If so, what machines?
Conundrum contest.
Vacation experiences.
Select reading.
Value of a power engine in the work of the farm and home.
Prime lemonade, by men named A to J; served with choice cakes, by women named K. to Z.
Intersperse this program with songs from "Song Knapsack."

the city of Cadillac, but succeeds admirably in keeping the young people interested.

Boone Grange meets a short distance from the village of Boone in a school-house. Here, too, are a number of bright young people who enliven the programs and help to keep the older members young.

Wexford Grange has an excellent hall and is fortunate in having a faithful few who keep things moving the year around. Manton Grange meets in the village of Boone in a school-house. Here, too, are a number of bright young people who enliven the programs and help to keep the older members young.

Wexford Grange has an excellent hall and is fortunate in having a faithful few who keep things moving the year around. Manton, has a large membership and one of the best lecturers in Northern Michigan.

Jackson County Pomona Grange held its first picnic at Vandercook's Lake, near Jackson, last week. It was well attended by patrons and farmers gen-Although Jackson has been one erally. of the last of the state's good agricultural counties to accept the Grange, it promises to become strong Grange territory. The principal address of this meeting was delivered by Bro. C. H. Bramble, of Lenawee Co., who is state manager of the insurance department of the Grange. After briefly discussing the insurance fea-

ter briefly discussing the insurance feature he made an able presentation of the social, educational and legislative aims of the Grange in which he said:

The Grange has a state and a national organization and at present is doing more to keep the boys and girls on the farm than any other agency. The social side of Grange work cannot be magnified too much.

The educational side is far reaching in its results and leads the boys and girls to a study of nature. But not all boys and girls are fitted for the farm. Leaders in many of the professions are the products of farm homes, and this is true to a greater extent than it should be because of the fact that our public schools train for the high schools and the university instead of the industrial work of life. But it requires just as much skill and education to care for an ore chard and raise good crops as to practice law. The girl is well educated when she can cook well and make a successful home.

The trend of government today is to-

home.

The trend of government today is toward fostering manufacture at the expense of agriculture and no nation can succeed under such policy. Take the country of Denmark, which a few years ago was the poorest country on the globe. Today they have twenty-nine agricultural schools in a territory about the size of the state of Massachusetts and the largest per capita wealth of any nation. We don't know enough about co-operation. Laws which foster agriculture were never needed more. The Grange stands for the initiative, referendum and recall. Everyone is interested in reciprocity and the Grange vigorously opposed the bill that was forced through the congress by the executive. In Ca-

whether for the whole state, the county made they have referred it to the people or the neighborhood. Very likely most to decide. The Grange also stands for good will result in the end from the neighborhood plan.

Over against any facts which such con-

A Plowing Match will be conducted by Ironton Grange, of Charlevoix Co., a committee to arrange for same having been appointed at the meeting of July 25. This is the second Grange in that county to adopt the plowing match as a feature of one of its late summer or early fall meetings. Ironton patrons also initiated three candidates at this meeting and appointed a committee to collect vegetables and grains for a Grange exhibit at the coming country fair.

COMING EVENTS.

Grange Rallies.

cializing agencies, etc. He feels that through such discussions many fields do yield better crops and more houses have by State Master Hull.

OFFICERS OF THE STATE ASSOCIA-TION OF FARMERS' CLUBS.

President—B. A. Holden, Wixom, Vice-Pres., J. D. Leland, Corunna. Secretary—Mrs. C. P. Johnson, Meta-

mora.
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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.

COMPULSORY SPRAYING.

Address of Mr. D. Munro, before the State Association of Farers' Clubs at the last annual meeting of that organization. the las

(Continued from last week.) "The careful and efficient work of our county fruit inspectors has been a great source of satisfaction. By a personal demonstration where needed they have shown the people how to spray, and then protected them by preventing the sale of infected fruit. The work of the inspectors should be enlarged as the industry grows. Our larger counties should now put their men on salaries and let them devote all their time to the work. Let them be instructors and advisers, traveling to every farm and talking and working personally with every man. That is the kind of work that brings results. This should be urged upon your growers and your county courts. Another thing lar duty of the county inspector is the gathering of statistics, particularly the yield of fruit. The first district commissioner, March 30, 1907: 'Everybody sprays is the slogan now.' We won the Sellwood case at Oregon City, so now can go right ahead without any fear of damage suits, enforce the spraying laws to the limit, knowing that we have ample authority to do so, and knowing we have the decision of the court to back us up. More than one-half of the trees in this district have been sprayed already (March 30), quite a number of the old scaly orchards have been grubbed out; and if the rest of them are not sprayed and attended to right away, something will happen to them too.' March 31, 1908,

"The Second District reports: The county fruit inspectors in each county in this district are enthusiastic, energetic men. They are carrying on their work as best they can considering the amount of work they have to do. They have held numerous meetings of fruit growers in various parts of their respective counties. They have held fruit fairs at the important points in their respective counties, and the promise is that they will see greater results this coming season than has ever before been manifested. I might say in passing that more meetings of fruit growers have been held than of those engaged in all other branches of agriculture combined.

"Public sentiment, or perhaps I should say self-interest, with greater knowledge of how to fight pests and make the orchard pay, has stimulated through active county fruit inspectors, the negligent orchard owners to activity. Spraying and "The Second District reports: The

this commissioner reports: 'The increase

in spraying for scale in my district has

been fully 40 per cent over last year.'

pruning the past winter, has been with more system and energy than any former year. Many old, worn-out, pest-infested, diseased orchards, that could not be renovated, have been cut out.' Inspector Riddle has caused many orchards to be sprayed for San Jose scale that were new to make the company of the party had breakfasted at four or make the company did ample justice to the lovely dinner as most of the party had breakfasted at four or make the company did ample justice to the lovely dinner as most of the party had breakfasted at four or make the company did ample justice to the lovely dinner as most of the party had breakfasted at four or make the company did ample justice to the lovely dinner as most of the party had breakfasted at four or make the company did ample justice to the lovely dinner as most of the party had breakfasted at four or make the company did ample justice to the lovely dinner as most of the party had breakfasted at four or make the company did ample justice to the lovely dinner as most of the party had breakfasted at four or make the company did ample justice to the lovely dinner as most of the party had breakfasted at four or make the company did ample justice to the lovely dinner and the company did ample justice to the lovely dinner and the company did ample justice to the lovely dinner and the company did ample justice to the lovely dinner and the company did ample justice to the lovely dinner and the company did ample justice to the lovely dinner and the company did ample justice to the lovely dinner and the company did ample justice to the lovely dinner and the company did ample justice to the lovely dinner and the company did ample justice to the lovely dinner and the company did ample justice to the lovely dinner and the company did ample justice to the lovely dinner and the company did ample justice to the lovely dinner and the company did ample just chard owners to activity. Spraying and come. sprayed for San Jose scale that were never sprayed before, and in many cases where old orchards would not pay to spray, he has caused them to be cut down and burned. Public sentiment is the prime factor in the enforcement of all our horticultural laws. The majority of our fruit growers are in accord with the strict enforcement of the laws, but the thoughtless and negligent will not bestow the necessary labor to destroy insect pests and fungus diseases unless someone with authority of law compels The county inspectors receive \$3.00 per day and expenses, which is paid by the county; but it is suggested to place them on a salary for full time."

Michigan.

What is the present situation in our own state? Some of the counties where fruit is a chief industry the growers are the peers of fruitmen found anywhere. They care for their trees wnether an adjacent farmer may have a neglected orchard or not. But the farmer is just awaking to the situation. There are large sections where practically nothing is being done. The San Jose scale and other pests are present, and the farmer is ignorant of it. Some competent person should go among the farmers instructing and helping them. Our State Inspector, Prof. L. R. Taft, is doing most efficient work in the state as a whole, but there is urgent need for orchard to orchard inspection. From time to time writers in The Michigan Farmer complain that the township inspectors are not busy and aggressive. There must be some reason for this. Having given the question considerable study for five years the writer has formed some opinions which he is glad to have this opportunity of expressing. His conclusions can be inferred from much that has been quoted in this paper.

The Michigan Farmer of Nov. 19, has this to say regarding "The Orchard Inspector's Pay"—"If you turn to section 18 of Act 91 of the Public Acts of 1905 you will find the following: 'The township, village and city inspectors shall be allowed for services under this act, two dollars for each full day and one dollar for each half day, and their per diem and other charges and disbursements hereunder, shall be audited by the township board or village council.' another section of the same act it states that when the inspector is informed of trees troubled with San Jose scale, yellows or other diseases mentioned, he is 'to proceed at once.' In many parts of the state ordinary farm hands are getting two dollars per day. There are many men, and we admire them, who are willing to leave their farm and orchard work in the hands of a hired man and inspect the trees of a neighbor for two dollars per day. But we should not depend upon such sacrifice to protect our orchards. If the inspector is an incompetent man, he is dear at this price and should be dismissed. If he is competent for the position, his services are worth twice the amount allowed by the statute, to himself, and many times two dollars per day to the township, village or city. It would seem that a little change in this section by our legislature would greatly aid in making effectual what is otherwise an admirable statute. It would tend to bring an entirely different type of inspector to the service of the public."

(Continued next week.)

CLUB DISCUSSIONS.

to their farm. When they are club was greeted by a banner

ple justice to the lovely dinner as most of the party had breakfasted at four o'clock.

Mr. and Mrs. Bratten then showed them over their beautiful farm which shows that Isabella county ranks with Gratiot county as to farms. After they returned to the house they listened to some music by Mrs. Mathews, the quartet and Mr. and Mrs. Bratten. Several humorous recitations were then rendered by Mrs. Hill, Mrs. Mathews, Master Floyd Bratten, Mr. Bratten and Mr. Mathews, after which they witnessed a basket ball same. Then the company were treated to ice cream, after which Mr. Bratten presented the club with a beautiful banner. They then hitched up and drove around Shepherd, which is a pretty little town; there they took the motor car for home. The day was very happlly spent in spite of the threatening weather. The next meeting will be held at Echo Glen, the home of Mrs. Dency Whitman, at 1:00 p. m. Sept. 14, 1911.

Mrs. Cora Kelser, Cor. Sec.

DETROIT WHOLESALE MARKET.

Grains and Seeds.

Grains and Seeds.

Wheat.—It now appears that the black rust news of the northwest was overworked by the bulls in their efforts to advance values with the result that since monday a bearish fever has attacked the market and pulled values down nearly four cents in two days of trading. Not alone in this country but in Russia, Germany and other continental countries it appears that weather conditions have greatly improved which scared holders into selling surplus stocks. The European visible supply showed a large decrease the past week compared with a substantial increase one year ago, and it is probable that from this condition might develop a demand that will relieve the market on this side and help to restore higher prices. Otherwise there is likely to be dealing upon the present basis for a few days. One year ago the price for No. 2 red wheat was \$1.02% per bu Quotations for the past week are:

No. 2 No. 1

Red. White. Sept. Dec.
Thursday 90% 87% 92% 97% Saturday 90% 87% 187% 92½ 97% Saturday 90% 88% 85% 93% Wednesday 86% 83% 88% 93% Corn.—While prices for this grain have weakened under the stress of a bearish

Potatoes.—Nothing new has developed in the potato situation and prices are steady. Quoted at \$1.60@1.75 per bu. Provisions.—Family pork, \$18@19; mess pork, \$17; medium clear, \$17@18; smoked hams, 16½c; briskets, 11½@12½c; shoulders, 11c; pienic hams, 10½c; bacon, 15½@16½c; pure lard in tierces, 9¾c; kettle rendered lard, 10¾c per lb.

Dairy and Poultry Products.

Butter.—There is no alteration in prices and the trade occupies a firm position with a decrease in production and demand continuing brisk. Quotations are: fleeces:

Boston.

Wool.—This market has shown a fair degree of activity the past week and dealers are reporting a firmer tone in prices; however, they appear ready to sell whenever opportunity for making a fair profit appears rather than to hold the product over into an uncertain future. There is active dealing in territory fine staple and Ohio 14-blood. Following are the leading domestic quotations for fleeces: Ohio and Pennsylvania fleeces

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THE MICHIGAN FARMER.

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The months have improved at the per lb.

The months have imp

lbs, compared with 252 lbs, a year ago and 231 lbs, two years ago. Sheep were about steady today and lambs largely 10c lower, lamb sales being made at \$3.50@7.25; ewes at \$2.50@3.60; wethers at \$3.40@4 and yearlings at \$4.05.50, Feeding lambs from the range country were scarce, and so were feeding yearlings, and some orders to buy had to go unfilled. Feeding lambs have been selling at \$5.25@6.10; feeding wethers at \$3.25@3.60 and feeder yearlings at \$4.10 and feeder yearlings at \$4.10 acase of large buying orders from local killers, as well as from buyers representing other packing points where fat beeves were scarce. There were enough of the poorer lots of cattle, including thin and grassy lots, and these sold at comparatively low figures, the undertone being weak. The average quality of the cattle on sale showed further deterioration, and it was evident that feeding districts had no large supplies of well-

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 MARKET.

Thursday's Market.

August 17, 1911.

Cattle.

Cattle.

Receipts 905. Good grades strong; others steady at last week's prices.
We quote: Best steers and heifers, \$5.75@6.25; steers and heifers, \$1,000 to 1,200, \$5.00@5.50; steers and heifers, \$1,000 to 1,000, \$4.00@4.75; grass steers and heifers that at fat 800 to 1,000, \$4.00@4.75; grass steers and heifers that at fat 800 to 1,000, \$4.00@4.75; grass steers and heifers that are fat, 500 to 700, \$3.50@4.00; choice fat cows, \$3.75@4.25; good fat cows, \$3.25@3.50; common cows, \$2.75@3.00; canners, \$1.75@2.50; choice heavy bulls, \$3.50@3.75; fair to good bolognas, bulls, \$3.50@3.75; stock bulls, \$2.50@2.75; choice feeding steers, 800 to 1,000, \$4.25@4.60; fair feeding steers, 800 to 1,000, \$3.50@4.00; choice stockers, 500 to 700, \$3.25@3.50; stock heifers, \$3.00@3.50; milkers, large, young medium age, \$40.00@55.00; common milkers, \$25.00@35.00.

Haley & M. sold to T. Regan 9 heifers av 548 at \$3.45. 8 butchers av 521 at

**Att \$4.75; grass steers and helfers that are fat, \$00 to 1,000 lbs., \$4.04.75; do, 500 to 700 lbs., \$3.50.04; choice fat cows, \$3.25.03.75; ers \$4.00.08.00; milch cows and springers common, common, dull.

Bishop B. & H. sold Sullivan P. Co. 2 good bologna bulls, \$3.50; fair to good, strong; common for at \$8.00; to to Rattkowsky 12 av 150 at \$8.00; to Rattkowsky 12 av 150 at \$8.00; to Priedman 4 av 135 at \$5.50, 18 av 160 at \$8.00; to Hammond S. & Co. 4 av 215 at \$5.50, 18 av 160 at \$8.50; to Goose 2 av 370 at \$4.25; to Sullivan P. Co. 1 av 160 at \$8.50; to Sullivan P. Co. 1 av 160 at \$8.50; to Sullivan P. Co. 1 av 160 at \$8.50; to Goose 4 av 225 at \$5.00; to Sullivan P. Co. 14 av 150 at \$8.25; to Newton B. Co. 7 av 160 at \$8.25; to Sullivan P. Co. 14 av 150 at \$8.25; ob do so do butchers, \$7.66.07.70; pigs, \$7.50; light yorkers, \$7.70; heavy, \$7.60.07.65.

THE MICHIG.

6 av 155 at \$8.75, 8 av 150 at \$8.25;
4 av 120 at \$8.00, 4 av 140 at \$8.00; to
Parker W. & Co. 2 av 115 at \$8.00; to
1 av 165 at \$8.50, 3 av 112 at \$6.00, 10 av
146 at \$8.00, 3 av 210 at \$8.00; to McGure
17 av 155 at \$8.25; to Burnstein 3 av 160
at \$6.00, 9 av 165 at \$8.50; Hammond S.
& Co. 13 av 150 at \$8.50; Hammond S.
& Co. 13 av 150 at \$8.50; Hammond S.
& Co. 13 av 150 at \$8.50; Hammond S.
& Co. 13 av 150 at \$8.50; Hammond S.
& Co. 13 av 150 at \$8.50; Hammond S.
& Co. 13 av 155 at \$8.50; Hammond S.
& Co. 13 av 155 at \$8.50; 16 av 160 at \$8.50;
Haley & M. sold to Newton B. Co. 10
av 153 at \$8.25, 5 av 165 at \$8.25;
Rot Goose 7 av 180 at \$7.00, 4 av 140
at \$8.00; to Parker W. & Co. 6 av 160 at
\$6.50; to Sullivan P. Co. 6 av 160 at
\$6.50; to Sullivan P. Co. 6 av 165 at
\$8.00; to Sullivan P. Co. 6 av 165 at
\$8.00; to Sullivan P. Co. 6 av 165 at
\$8.00; to Sullivan P. Co. 6 av 165 at
\$8.00; to Sullivan P. Co. 6 av 183 at \$8.00; to
Newton B. Co. 2 av 225 at \$7; to Goose
3 av 230 at \$3.50.

W. Long to Burnstine 9 av 135 at \$8.50.
Altington sold same 8 av 150 at \$8.50.
Altington sold same 8 av 150 at \$8.50; to
Parker W. & Co. 7 av 150 at \$8.00; to
130 at \$7.00, 9 av 150 at \$8.00; to Mich
B. Co. 3 av 135 at \$8.50; 5 av 185 at \$8.25.
Sharp sold Mich. B. Co. 5 av 100 at
\$7.00, 8 av 147 at \$8.00.
Belheimer sold Newton B. Co. 9 av 165
at \$8.25.
Sheep and Lambs.
Receipts 3,792. Market opened 25c

Sheep and Lambs.

Sheep and Lambs.

Receipts 3,792. Market opened 25c lower on few early sales; closing 50c@ \$1.00 lower than last week on all grades and very dull. Best lambs, \$5.75; fair to good lambs, \$5@\$5.50; light to common lambs, \$3.50@4.50; yearlings, \$4.50; fair to good sheep, \$3.00@3.50; culls and common, \$1.50@2.50.

Haley & M sold Harland 16 lambs av 58 at \$5.50; to Newton B. Co. 29 do av 70 at \$5.50; to Mich. B. Co. 92 do av 70 at \$5.75; to Newton B. Co. 33 lambs av 55 at \$4.75, \$6 do av 73 at \$5.75, 14 sheep av 110 at \$3.00; to Young 68 lambs av 70 at \$5.50; to Eschrich 20 do av 65 at \$4.00, \$5 do av 63 at \$5.75;

Roe Com. Co. sold Sullivan P. Co. 23 lambs av 75 at \$5.75; to Newton B. Co. 14 sheep av 110 at \$3.50; to Barlage 34 lambs av 68 at \$5.25, 43 lambs av 63 at \$5.00, 32 do av 60 at \$5.25, 12 sheep av 110 at \$3.00, 4 do av 130 at \$3.00; to Kamman 6 lambs av 60 at \$5.75; to Hayes 15 do av 55 at \$4.00; to Kamman 4 sheep av 130 at \$3.00.

Spicer & R. sold Harland 16 lambs av 58 at \$5.50; to Thompson 21 do av 73 at \$5.50; to Thompson 21 do av 73

| Secretary | 100 to 1,000 \$1,326,360; to 1,000 to 1,000 \$1,326,360; to 1,000 \$ 110 at \$3.00, 4 do av 130 at \$3.00; to Kamman 6 lambs av 60 at \$5.75; to Hayes 15 do av 55 at \$1.00; to Kamman 4 sheep av 130 at \$3.00.

Spicer & R. sold Harland 16 lambs av 158 at \$5.50; to Thompson 21 do av 63 at \$5.30; to Mich. B. Co. 11 do av 65 at \$5.30; to Mich. B. Co. 11 do av 65 at \$5.30; to Mich. B. Co. 11 do av 65 at \$5.30; to Sullivan P. Co. 7 do av 50 at \$4.50, 5 sheep av 120 at \$2.25; to Young 18 lambs av 70 at \$5.50, 28 do av 68 at \$5.30, 21 do av 65 at \$5.50, 28 do av 68 at \$5.30, 21 do av 65 at \$5.55; to Thompson 19 do av 60 at \$5.50, 22 sheep av 75 at \$3.75, 9 lambs av 75 at \$5.75; to Newton Beef Co. 48 lambs av 70 at \$5.65.

Stephens sold Newton B. Co. 20 sheep av 65 at \$3.50, 57 lambs av 70 at \$5.65.

Belheimer sold Same 28 lambs av 70 at \$5.65.

Belheimer sold Same 28 lambs av 70 at \$5.65.

Bishop B. & H. sold Mich. B. Co. 30 sheep av 115 at \$3.35, 57 lambs av 70 at \$5.00, 24 do av 65 at \$6.00; to Hammond S. & Co. 26 sheep av 115 at \$3.25, 7 vearlings av 105 at \$4.50, 25 lambs av 70 at \$4.00, 5 sheep av 115 at \$3.25, 7 vearlings av 105 at \$4.50, 25 lambs av 50 at \$4.00, 5 sheep av 170 at \$4.00; to Newton B. Co. 50 lambs av 70 at \$5.75; to Hambs av 50 at \$4.00, 5 sheep av 170 at \$4.50, 57 lambs av 50 at \$4.00, 5 sheep av 170 at \$5.75; to Hamband S. & Co. 26 sheep av 115 at \$3.25, 7 vearlings av 105 at \$4.50, 25 lambs av 50 at \$4.00, 5 sheep av 170 at \$5.75; to Harland 22 do av 70 at \$5.75; to Breitenbeck 18 lambs av 55 at \$4.50, 57 do av 78 at \$5.75; to Thompson 19 lambs av 60 at \$5.75; to Thompson 19 lambs av 60 at \$5.75; to Thompson 19 lambs av 65 at \$5.75; to Hammond S. & Co. 15 lambs av 60 at \$5.75; to Thompson 19 lambs av 65 at \$5.75; to Hammond S. & Co. 15 lambs av 60 at \$5.75; to Hammond S. & Co. 15 lambs av 60 at \$5.75; to Hammond S. & Co. 15 lambs av 60 at \$5.75; to Hammond S. & Co. 15 lambs av 60 at \$5.75; to Hammond S. & Co. 15 lambs av 60 at \$5.75; to Hammond S. & Co. 15 lambs av 60 at \$5.75; to Hammond S. & Co. 15 lambs av 60 at \$5.75; to Hammond S. & Co. 15 lambs av 60 at \$5.75;

(Continued from page 136.)

(Continued from page 136.)

of the workingmen who threaten to walk out if demands are not heeded. In London success has attended strikes, and it is probably this fact that moves the men of the other cities to publish their demands with such vigor.

The English house of Lords has finally passed the veto bill which has been before parliament for over two years. The measure curtails the powers of the upper house and increases the powers and responsibility of the house of commons. The passage of this bill is considered one of the important changes in the English unwritten constitution. It is another step toward bringing the power of the government nearer the people and protecting them against the action of the lords who can veto bills passed by the commons.

Election activity is rife throughout Canada where the reciprocity issue is awakening the people to an unusual interest in political matters. From Nova Scotia to British Columbia platform orators and the press are busy persuading voters on the question.

CROP AND MARKET NOTES.

Calhoun Co., August 8.—Threshing is the order of the day, many oats being threshed from the fields on account of the lodged condition of the straw, and the absence of many heavy rains. Oats are not turning out as well as expected from the appearance of the straw. There are many light oats which blow out, probably due to hot, dry weather just as they were setting the grain. Hall storms and wind also did much damage in some localities. From 20 to 30 bushels is about all most fields will yield. The wheat crop is very variable, but there are no good yields, while there are many very low ones. I believe more fields are going ten bushels than are yielding. 20. Fields in which the fly worked badly last fall are light. The market is rather dull for wheat, but oats are in fair demand and sale. There is no hay to buy or sell, and not too much to feed. More millet and rape has been sown than usual, and considerable fodder corn. Alfala is also gaining the attention of quite a number of farmers. A hall storm the last of July stripped and silt the corn leaves badly and pounded the stalks, and the wind accompanying it blew much of it over, so it will be mean to cut, and the yield will be considerably reduced in the hall sections.

Livingston Co., August 7.—The weather continues very dry with only light local showers to partially relieve the drouth. Corn, beans and late potatoes need rain badly. Not much plowing done yet, the ground being too dry. Threshed in significant with the strain badly. Not much plowing done yet, the ground being too dry. Threshed in significant with the search of the past four or five days have been of immense value to the late potatoes and corn of this sequence of immense value to the late potatoes and corn of this sequence of immense value to the late potatoes and corn of this section. Wheat is about all threshed and the yield has been about up to the average though there is considerable shrunken wheat which will not grade up to No. 2. Farmers are getting around \$2c. New potatoes are coming in quite

S. E. Mecosta Co., August 4.—Wheat and rye about an average crop. Oats about half a crop. Corn and potatoes nearly up to the average. Beans fair. Fruit poor, except huckleberries and some early apples. Late apples very scarce. Some peaches. Hay nearly average in quantity and extra quality. New seeding nearly a failure. Pastures badly dried up. Ground very dry and not much plowing done for wheat.

Ohio.

Wayne Co., August 7.—The weather has been very warm with frequent showers, but we have not had a soaking rain since the latter part of June. Corn is doing very well. Late potatoes almost a failure, selling at present at \$1.50 per bu. Hay harvesting is over, and a fair crop. Lots of timothy being threshed for seed; price of seed very high, selling at \$5.00 per bu. June clover making a fine second growth, having good prospects for seed. Wheat poor, being injured by the fly. Threshers report yielding about 10 bu. per acre on average. Quality poor, being badly shrunken. Oats very good

stand on ground, about all being cut at this writing. Wheat, 83c per bu.; oats, 38c; corn, 36c per basket; rye, 70c per

bu. Montgomery Co., August 7.—A heavy rain last week has ended a long term of dry and hot weather. The haying has been completed, with a very light crop. Tobacco short on account of dry weather. Some crops will come out pretty well, since the last rain. Corn will make a fair crop. Wheat, 78c; corn, 60c; oats. 40c; rye, 85c; clover seed, \$7.; butter, 18c; eggs, 14c; potatoes, \$1.40.

Illinois.

Western Warren Co., August 2.—July

Western Warren Co., August 2.—July has been a good month for crops of all kinds. Weather much cooler and more rain, which is bringing on grass very fast. There is a prospect of the best fall pasture in years. Corn is the finest that we ever had. Potatoes are very scarce and high in price, but it looks good for late ones where there are any, but there are not many planted in the country.



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OHN FRAZEUR tells how he made \$840.00 in one season with a Success. Spreaders do hard work. Cheap machines made of pine, and iron lose money, give trouble and die

and from lose many, some and from lose many, some some some frames are second-growth white ash and oak, mortised, bolted and trussed—double sills through the middle.

Only Spreader made having a beater that slides back out of the load when thrown into gear—no strain on the manhine or the horses when starting. chine or the horses when starting.

Axles, cold-rolled steel—three times the strength of common steel. Special wheels of great strength—wood or steel.



THE LIGHTEST DRAFT MANURE SPREADER MADE AND MOST DURABLE

Patented Steel Brace from Cylinder to Main Axle.

to Main Axle.

Others brace to the spreader box. All driving, parts compensating. Pressure of the load is against the cylinder, while the drive chain pulls forward, forcing the gears together. No lost motion—no getting out of mesh. The Success is the only spreader having these valuable features.

The Success spreader uses a steel pinned drive chain. It withstands the strain of frozen manure and obstructions in the load.

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Cull Beans for Hog Feed

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Contain large percentage of protein. Worth more than corn for hogs. Cost about one-half as much. PRICE WHILE THEY LAST \$15 PER TON. Sacks extra at 6c. each. f. o. b. Bad Axe. Mich. BAD AXE GRAIN CO., Bad Axe, Mich.

MICHIGAN CROP REPORT.

Wheat.-The damage by Hessian fly in the southwestern part of the State, extremely hot and dry weather in the central and northern portion causing wheat to shrink by ripening too quickly and injury by smut in some localities, has disappointed many who were quite positive that the State yield would be twenty

mated yield per acre in the State and southern counties is 18, in the central counties 19, in the northern counties 15 and in the Upper Peninsula 20 bushels. The per cent. of plowing done for wheat in the State is 12, in the southern and central counties 13, in the northern counties 9 and in the Upper Peninsula 11.

The total number of bushels of wheat marketed by farmers in July at 84 mills is 180,709 and at 96 elevators and tograin dealers 351,262 or a total of 531, vil bushels, which indicates that the crop of 1910 has passed out of the possession of the producers. Fifty-two mills, elevators and grain dealers report no wheat marketed in July.

Rye.—The average estimated yield per acre in the State, southern and central counties is 14, in the northern counties 13 and in the Upper Peninsula 22 bushels. Corn.—The condition of corn as compared with an average, in the State is 82, in the southern counties 79 and in the Upper Peninsula 92. The condition one year ago was 79 in the State, 77 in the southern counties, 82 in the central counties, 82 in the central counties, 84 in the northern counties and 81 in the Upper Peninsula.

Oats.—The estimated average yield in the State is 30, in the southern and central counties 31, in the northern counties 24 and in the Upper Peninsula 25.

Fotatoes.—The continued dry and hot weather is having a very bad effect on potatoes. The condition as compared with an average in the State is 63, in the southern counties 36, in the central counties 62, in the northern counties 62 in the southern counties 65 and in the Upper Peninsula 91. The condition one month ago was 91 in the State, 92 in the southern counties, 88 in the central and northern counties 65 and in the Upper Peninsula.

Beans.—The condition of beans, compared with an average per cent. in the State and southern counties 85, in the State and southern counties 87 in the central counties, 90 in the central counties, 91 in the southern counties 86, in the northern counties 88 in the State and central counties, 14 in horthern

the central counties os, in the northern counties 65 and in the Upper Peninsula 54.

Apples.—The drouth, excessive heat, high winds and insects caused a very heavy fall of apples during the month of July and reduced the crop outlook very materially. The prospect for an average crop in the State is 41, in the southmern counties 42, in the central counties 28, in the northern counties 40 and in the Upper Peninsula 71. One year ago the prospect was 24 in the State, southern counties and Upper Peninsula, 25 in the central counties and 22 in the northern counties. The winter varieties that promise best, are in their order: Greenings, Baldwin, Wealthy, Ben Davis, Northern Spy, Russet, Wagner and Talman Sweet. Of the early sorts the most promising are Dutchess, Red Astrachan, Yellow Transparent, Maiden Blush, Famuse and Early Harvest.

Feaches.—The prospect for an average crop of peaches in the Michigan Fruit Belt is 84 per cent, and in the State 75. One year ago the prospect was 39 and 49 respectively. The varieties that promise best are, in their order: Elberta, Crawford, Hill's Chili, New Prolific, Gold Drop, Kalamazoo, Barnard and Crosby.

NATIONAL CROP REPORT.

The Crop Reporting Board of the Bureau of Statistics of the United States Department of Agriculture estimates, from the reports of the correspondents and agents of the Bureau, as follows:

Preliminary returns indicate a winter wheat yield of about 14.5 bushels per acre, or a total of 455,149,000 bushels, as compared woth 464,044,000 finally estimated last year, and 450,130,000, the average annual production in the past five years. Quality is 92.0, against 92.6 last year.

year.

The amount of oats remaining on farms August 1 is estimated at 5.7 per cent of last year's crop, or about 64,342,000 bushels on August 1, 1910, and 52,663,000, the average amount on farms August 1 for the past five years.

The preliminary estimate of the pro-

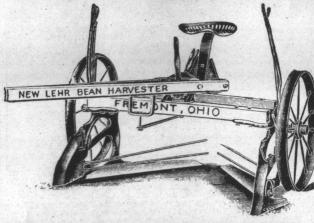
age amount on farms August 1 for the past five years.

The preliminary estimate of the production of rye is 30,677.000 bushels, as compared with 33,039,000 bushels last year, and 32,414,000, the average annual production in the past five years. Quality is 91.5, against 92.7 last year.

THE MICHIGAN FARMER.

sburgh Perfect Fen Those shrewd farmers who have stretched "Pittsburgh Perfect" Fence on their property appreciate most keenly in harvest time, perhaps, its unequaled strength and durability. It has successfully withstood the elements, the knocks of planting, cultivating, harvesting, the rough usage given it by horses, cattle and hogs—it stands erect, even and firm, as good as new, year in and year out. "Pittsburgh Perfect" Fence owners at all times are reaping the results of highest fence efficiency. Tough, strong, durable Open Hearth wire—like old time iron wire—carefully galvanized with pure zinc, is used exclusively in 'Pittsburgh Perfect" Fence. There are no wraps, clamps, twists or ties to increase weight, hold moisture and cause decay; instead, the wires at every contact point are ELECTRICALLY WELDED which produces a joint that cannot be slipped pulled, broken nor rusted apart. There is a style and size of "Pittsburgh Perfect" Fence For every FIELD, FARM, RANCH, LAWN or POULTRY purpose. Write for catalogue showing 73 styles and sizes, or look up the best dealer in your town—he handles Those shrewd farmers who have stretched "Pittsburgh Write for catalogue showing 73 styles and sizes, or look up the best dealer in your town—he handles "Pittsburgh Perfect" Fence exclusively. SBURCA PRFEC PITTSBURGH STEEL COMPANY, PITTSBURGH, PA. Manufacturers of "Pittsburgh Perfect" Brands of Barbed Wire, Bright, Annealed and Galvanized Wire, Fence Staples, Standard Wire Nails and "Pittsburgh Perfect" Fencing.





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