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#### FARM NOTES.

#### The Promises and Discouragements of the Season.

This season has been exceptional in the promise and alternate which it has held out to the farmers of the thistles are very small. Probably the Michigan as well as most other sections of the country. The exceptionally early spring was heralded with pleasure by plow the ground. That is, follow one every one and was an agreeable contrast plow with another running in the bottom to the springs which have preceded it in of the furrow, plowing a shallow furrow recent years. Considerable fear was felt for the effect of this early drought upon wheat, but the crop came through in much better condition than was anticipated. The encouragement of the early spring was followed by the discouragement of a cold wet spell, which delayed corn planting and injured the fruit crop not a little, yet the warm weather which followed, has been favorable for the rapid growth of the corn and there is yet promise of a fair yield of this most important crop to every farmer. But again one extreme has followed another, and the unseasonably hot and dry weather which prevailed during June and the early days of July has brought further discouragements in the shortening of pastures and injury to the spring grain crops and greatly lessening the chances of getting an even and satisfactory stand of clover where the same was seeded in spring tom of the deep furrow made by the facts in regard to working material to grain. However, these discouragements second plow, then bury this with the furties of fixed capital and would like to hear from must be expected as a factor in the busirow thrown up by the second plow runKent Co.

H. D. P. must be expected as a factor in the business of farming in most seasons. We can not change weather conditions and probably the result on the whole would be no oughly and bury them so deeply that value of the farm, will depend altogether better if we could, hence it is useless to complain about the weather. It is a tar better plan to do the best we can to promote the successful growth of our crops under the weather conditions which may prevail. As with the wheat in the spring from the wet weather following it, but which will be left after this treatment. which have survived the ordeal better than was expected, so it is likely to be with the other crops. Things ar not generally as bad as they look to the then we look at the discouraging factors with which we have to contend upon the farm. It is far better to look on the bright side and keep on "sawing wood," as that course will prove not only more profitable but more satisfactory in a personal way in the end. The dry weather which has prevailed, has been just the thing needed to secure the clover hay in fine condition and where moisture is conserved by frequent cultivation, the spring crops will not suffer because of the lack of rain for some time, and the law of compensation which is universal in nature, is more than likely to send us abundant rains to mature a more bountiful harvest of these crops than would have been secured in a more normal season.

Salt as a Remedy for Canada Thistles.

Tell "Subscriber" from Oakland county to put salt on Canada thistles, It will kill them root and branch in ten days or two weeks.

Lens wee Co.

Subscriber.

It is true that salt applied liberally enough will kill Canada thistles. Incidentally it will also destroy other vegeland, which makes it an impracticable remedy, except where the thistles are present in small patches. In that case they may be easily exterminated by the use of a small, sharp spud with which they should be repeatedly cut off just below the surface. Small patches may also be smothered out by spreading tarred paper over the surface, lapping the sheets a little and weighting them down with mon cort can be easily obtained it is sat- crops, the working capital would not need stones. In fact, any method which will prevent them from developing leaves will soon destroy the pests. Some farm-

ers make a practice of salting the sheep of the soil upon which it is sown. Usu- ital and the fixed investment in a farming exterminate them, although it is rather discouragement hard on the sheep unless it is done when The Relation of the Working Capital to best remedy for thistles, where they are spread thickly over the field, is to double plow the ground. That is, follow one plow with another running in the bottom of the furrow, plowing a shallow furrow with the first and turning it into the bot-

they appear in the pasture. Between the buckwheat is ordinarily grown upon the salt and the sheep this will successfully poorer soils of the farm. The better the soil, the more seed may be used.

the Fixed Capital.

on these patches of Canada thistles when ally the lesser amount for the reason that proposition, then those engaged in the industry should know that proportion, hence a discussion of this problem by practical farmers might prove beneficial. Millet as a Forage Crop.

I have an 8-acre field of clay loam which I put into corn. I got it in early but the seed was not good. Then I got different seed and drilled it in and used fertilizer with both plantings. It fitted up good with one spring toothing. The most of seed and drilled it in and used fertilizer with both plantings. It fitted up good with one spring toothing. The most of this field is covered with Canada thistles. I would like to know if it would be profitable to sow it to millet and get a good crop this season, and what would be the latest I could sow it this season? How much seed does it take to the acre? Oakland Co.

J. L.

Miliet is usually seeded the latter part

of May or fore part of June, which brings it to maturity at a more favorable time for harvesting successfully than if sown later, which is a rather important consideration from the fact that the hay is rather hard to cure. If seeded at once on this well prepared ground there should be moisture enough to bring it up and the hay would probably be fit to cut before the frost came. In this case it might be better to cut the crop with a binder. binding it into loose bundles and setting in open shocks to dry out, as it could be cured more quickly. We have never seen any millet hay handled in this way, but understand that it is sometimes done with success. About one-half bushel of the common sort is generally sown per acre. If even a fair stand of corn can be saved this would be the more profitable



Scene at the Completion of a Section of Crushed Stone Road Near Shelby.

the bottom of the first furrow.

Buckwheat Culture. When is the best time to sow buckwheat? Which is the best kind? How uch to the acre? Ingham Co. M. E. P.

Where sown for a grain crop buck-

The proper relation of the working cap-

This will cut up the roots pretty thor- ital of the farm to the fixed capital or many of them will never appear at the upon the kind of farming which is fol-surface again. Then, thorough surface lowed. Where any branch of live stock cultivation, either of the spring crop or farming is followed, the investment would the summer-fallow, as the case may be, necessarily be much larger in proportion will complete the job in a fairly satisfactor to the value of the farm than is indicated tory manner and make it a comparatively in this inquiry. Probably in a majority drought and the corn which suffered easy task to kill the scattering plants of cases where any considerable amount of live stock is kept, the working capital of the farm should be at least one-third the value of the land; without any doubt, it ought to be at least this large in order to so conduct the farm as to maintain its fertility where general farming is fol-

#### BUILDING STONE ROADS.

The citizens of Shelby township, Oceana county, believe in good roads, and have gone about building them in a businesslike manner. Three years ago they bonded their township for \$20,000 to buy machinery and to build crushed stone roads. To date they have built 11% miles, have five miles in process of grading and preparing for the stone and money on hand to finish two miles, so satisfied are they that a special election will be called this wheat is generally seeded at any time be- lowed and some cash crops are grown and summer to vote on bonding for ten thousand dollars more, all to be used in the construction of crushed stone roads.

Besides the 11% miles in the township, the village of Shelby has some three miles of stone roads. In fact, it was the building of the village roads that first called attention in a forcible manner to the stone road idea, and gave the practical arguments necessary to convince the citizens of the township of the economic value of such roads

The first bonds were made payable in 10 years, and mature at the rate of \$2,000 per year. It is estimated that the system of stone roads in the township, when completed, will save the farmers annually in marketing their crops more than the amount of their taxes to pay the interest on the bonds and the bonds as they fall due. This might not be true where there were only a few miles of road built, and the farmers had to haul their crops most of the way over hilly, sandy, or muddy roads, but where the whole distance is a tation and make the soil unproductive tween June 15 and July 10, which gives it sold from the farm. Of course, where stone road graded to a six per cent level until the salt has been leached from the time to mature, as it is only from 70 to pure-bred stock is kept and where the the expense of marketing is reduced to a 75 days in reaching maturity. There are equipment of the farm is rather complete, half or a quarter of the old cost. Besides this annual saving, they increase the wheat, only three being cultivated in this here noted, equaling half or more the value of farm property and add immeas-

> The township owns its road roller, stone crusher, etc. They are using the field stone found in the township, and are paying at a rate that enables the farmers to make wages while picking and hauling isfactory for ordinary purposes. From to be so large. However, this is a point the stones to a point convenient to the isfactory for ordinary purposes. From to the one-half to three-fourths of a bushel per worthy of consideration. If there is any stretch of road to be built. Many mainacre are used, according to the character proper relation between the working cap- tain that these stones make a more dur-



Hauling the Crushed Stone on the Roads in Shelby Township, Oceana County.

silver-hull, which

not a large number of varieties of buck- the working capital would be larger than country to any extent. These are the value of the farm in many cases. On the urably to the comforts and convenience common or dark colored buckwheat, the other hand, where a system of green ma- of farm life. is a lighter colored nuring is followed to maintain the humus grain, and the Japanese. The silver-hull in the soil and where mineral plant food ordinarily gives a little better yield than is supplied in the form of commercial the other varieties, but where the com- fertilizer for the growing of special cash

stone, but a few prefer the limestone. The is not tolerated, as the bundle can not be more to barn. sizes; the largest being placed in the bot- shock is not likely to stand well. tom of the roadbed, then a course of stone hauled to a place convenient to each is no time to recap the shocks. hauling the stone to the crusher and in but it is the attention to such little details distributing the crushed stone on the that makes the difference between a good road. I noticed, also, a large pile of the job and a poor one. Our experience is crushed stone left at each place for fu- that not half of the men who have worked of this stone, which will be small.

even hilly, and practically all sand. The the wheat is hauled and the safest way after a little practice one will be able to roads are leveled to a six per cent grade is to set it well. required by the state reward road law, and they are receiving the \$1,000 per mile for two miles per year from the state. So well pleased do the people seem that I heard but few opposing the proposition where dumped by the carrier until ready be watched that the beam does not spring to bond again for \$10,000 more to complete to haul. This is not a safe practice untheir system of township roads. When less the wheat is about ready to haul one drives over these nice stone roads and when cut, and wheat should be cut if possees the loads being hauled over them, sible before it becomes so ripe, as the of hole, slipped it along the post at end and then off them into the sandy, hilly quality is claimed to be better, it cuts of pole and nailed it, to fill up the opening roads and notes the loads being hauled there, and our own slow progress and in- shelling. convenience, one marvels that more townships and counties are not doing the same

H. B. FULLER.

#### HARVESTING THE WHEAT CROP.

From present indications the wheat crop will be ready to harvest early in July. Probably some one who reads this article a short description of it and the way it finished planting the corn, planted our will remember that there was something about the binder that was not working as well as it should have last season, or It is located seven and one-half feet bepossibly something was loose or broken. If so we should see that this is repaired before we are ready for the binder.

But granting that the harvest has begun, just how are we going to handle corner nearest floor, rope long enough to moisture has evaporated even though we the bundles, and shock them to save time fasten to a post, girt or brace at side of and allow them to keep well and cure well should there come a spell of rainy

Almost any machine will good bundles. conditions is not difficult. When the it may have to go lower. It would depend whole potatoes, following Brother Woodstraw is of uneven lengths or lodged in on the space required, as there must be man's plan of putting a rather small-sized places, the operating of the machine so room between the track and chute for the potato in each hill. and one which not all persons seem able trip onto the chute. Each end of this justment about the machine and reason 1 in. or 1½ in. in size, projecting beyond the seed potatoes with flour of sulphur. whether the quality of its work can be the ends 4 or 5 inches, being fitted into Shovel them over so that the sulphur covprinciples of the machine, then study its operation under unfavorable conditions, and you will be able to make fairly good bundles even when the straw is uneven and lodged, but considerable attention must be paid to the adjustment of the each round.

After the bundles are tied in as perfect a manner as possible the question of how set them arises. All machines are now equipped with bundle carriers which greatly lessens this labor. Much depends upon the condition of the grain and straw as to the size and style of shock. If it is green or there are green weeds or timothy in it a long shock with the bundles set in pairs leaning equally against each and slightly toward the center makes a shock which dries readily. Any convenient number of bundles can be set in them, and when dry they can be reset

a round, capped shock. If the wheat is and you have it complete. quite green we set ten bundles in a shock, down so that the longer side of the bundle this plan of setting these chutes would In fact, I am getting so that I think a at the butt is to the outside and the not work in all barns as there are so man ought to cultivate two rows at a shock the bundle is grasped in both hands business for 18 years, the other we put in

smaller stones, and last the finest stone. prevailing wind, put the caps on endwise, probably equal those generally taken by It is all rolled with a heavy steam road and place the cap whose butt is toward the sling method. Several in this vicinity roller. I was told that the secret of a the prevailing wind on the bottom. If who have been here for measurements good road was to roll when the stone was capped in this way we have found that have put in chutes with a sawed stick in wet, and good and wet, too. When once fewer caps blow off, and this is the secret place of a pole, but they should be pretty these roads are built the cost of keeping of keeping shocks dry, for the hard winds good and reliable timber. The ropes fasthem in repair is light. They have the usually come just before a rain so there

two miles of road to save expense in Those things may seem commonplace ture use in repairing the road, so that the on a farm all their lives will do a good cost will be simply the hauling and rolling job setting up wheat. In a dry season it would make little difference, but we do The country around Shelby is rolling, not know what the weather will be before

> When ten bundles are set to the shock bundle is set at each side instead of two.

> We sometimes see wheat left in the row and handles better, and less is lost by

Calhoun Co.

#### A DEVICE FOR DISTRIBUTING HAY IN THE MOW.

S. B. H.

Michigan Farmer and ourselves, about practically at a standstill so far as our device for distributing hay in the mow, we thought it would be best to give was made. It is a movable fan and for potatoes, cultivated our beets, have got want of a better name we call it a chute, low the track in center of bay, and is however, have not done well this dry 11 ft. in length for 40 ft. bay, eight ft. weather. It was too cold previous to this wide for 18 ft. bay, and 10 ft. wide for and came off so hot and dry that the clay 20 ft. bay, with rope fastened to each ground has dried down too hard and the bay next to floor and above scaffold.

The way to make them is like this. Take a tough, dry elm pole about six In the first place, if one is to do good inches in diameter and cut it the exact until we get rain. We finished planting and fast work in shocking he must have length of the distance between the center the potatoes on June 23. This is rather post above the main end beam and the late but we are used to getting our pomake them if the wheat is straight and perline girt on opposite side of bay, at tatoes in late, always leaving that until even, and the operating of the machine least seven and one-half ft. below track the last job of planting. The ground was so long as it is working well under these using double harpoon hay fork, For slings in fairly good condition and we planted as to do good work, is a difficult problem fork or sling load to move into position to shafting cut to the right length and easily applied. eight-foot chute and lay a 12-foot inch a short bolt into this hole, one that is a little large so that it will fit snugly and this and there is no danger whatever. you have the truss support on under side of chute. Now turn this over and slightly ways with a marker, making the rows flatten the top of pole for the width you want the chute and nail 11-ft, boards at wide on the under side of each end of and horrow it once more before the pochute and spring the ends of truss sup- tatoes come up. This will preserve moisport up to it, and put bolts down through ture and will kill all the seed that have into round capped shocks if not ready to them. Saw off ends of support even with germinated since the last cultivation, and haul.

ends of chute, then bore a hole at each will do much more good than cultivating. Many set in long shocks altogether, but corner nearest the drive floor for attachfor cleaf wheat, not too green, I prefer ing a rope to hold the chute in position straight, planting the seed exactly where

if fairly well ripened, twelve. Two men end we simply bored a hole in post the rows that we will have no difficulty in can work together more conveniently than size of the stub or gudgeon on end of cultivating both ways with our small twoone can set alone, though one can do pole, and for end next floor we bolted an horse cultivators which we use for cultigood work if careful. To start the shock iron box on under side of perline girt. To vating beets in 28-in, rows. I like to have each man takes a bundle under each arm, raise it into its place we fastened a pulley the beets and also the potatoes so that setting them firmly upon the ground so to track directly above each end of pole, we can cultivate them with two-horse that they lean equally toward each other, ran ropes through, drew it up and slipped cultivators. A bundle is then set at each end and two it into its hole in post, bolted box in horse is getting rather out of date. at each side. All of these bundles are set position and all was done. Of course, man ought to cultivate a row at a time. longer side of the heads to the inside of many different kinds of frames. But time and use a two-row cultivator in the shock. This allows the bundles to most farmers have ingenuity enough to corn, but I do not know of any cultivator set more firmly and settle together bet- find a way to set one if he wishes to try that will work well in potatoes and beets ter. In setting the bundles against the it. Two of our chutes have been doing for two rows.

able and less dusty road than the lime- and set down firmly. One hand setting a few years later, after adding 20 feet We are not sure that any stone is crushed and graded into different set firmly with one hand and a loosely set one is using this device with slings but we know one man who uses two double I like to set the shock lengthwise of the harpoon forks at once, and his loads tened to the two corners next floor to hold the chute in position we leave in one piece, as it is handier that way. In fastening chute in position draw ropes as tight as possible. This chute in no way interferes in filling bay to track, but it should be left in a vertical position in filling bay, as were it otherwise the settling hay would break it down by setting the chute at different angles.

The hay goes different distances and mow away a great deal of hay with no one in the mow. Of course, this is better the method is the same except that one for high barns than for low, but some are using them around here in barns with the old style of roof. If barn is new it should enough to let the stub out. On one of ours we bored a hole in a block of wood to fit the stub, sawed it across the center caused by the springing of end beam.

Eaton Co. E. J. BOYD.

#### LILLIE FARMSTEAD NOTES.

The dry weather of the last few weeks has enabled us to do an immense amount On account of inquiries, both to the of tillage. During the wet spell we were tillage was concerned and were doing other work. However, since then we have them now, June 25, blocked and thinned, and a fairly good job done. The beets, harrowed crosswise with a spike-tooth harrow to prevent this very thing, and on the hard clay spots the beets are at a standstill and I think will remain so

This year I tried a new remedy for to master. One should study every ad- pole is fitted with stubs or gudgeons lain, and that is to thoroughly sprinkle improved in any way. First master the grooves and secured by two bolts through ers the entire surface, which it is claimed the stub and pole. The stubs on old dump will prevent scab as well as formalderakes are just right. We used them for hyde. Sulphur costs a little bit more two of our chutes. On the other we used than formaldehyde but it is much more Using the formaldehyde drilled for bolts, two for each stub. Now solution for the prevention of scab in slightly flatten a six-inch space about four potatoes some years we have had poor butter, the reel, and the binder during feet each way from center of pole for an results from the seed. Much of the seed would not germinate, and I have an idea strip six inches wide across center of that we had the solution either too strong, strip and bore holes through strips and or else we left the potatoes in too long about half way through pole and drive which killed the germinating power of the potatoes. Sulphur, of course, will not do

We marked our potato ground both 28 in. apart, and then planted, as I said before, a whole potato in each hill. center of same until you have it wide morrow morning we will harrow this field enough. Then nail an inch strip 4 in. with a spike-tooth harrow and will try Then, as we took pains to plant the rows the marks come, we anticipate that the In placing it in position for the outside stand will be so straight and even in the Cultivating with a single

COLON C. LILLIE.

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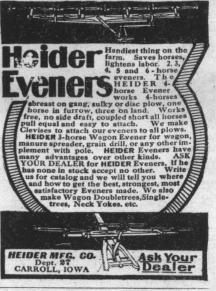
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FRIENDLY CRITICISMS BENEFICIAL.

that Mr. Kelly comments on a criticism. the same.

Calling attention to important points in breeding operations is certainly bene- ously developed pig that has had a conficial; it emphasizes facts and should have as well as suggestive hints.

On this point I have a case in mind Berkshire breeders of Michigan. At an was clerk of the sale I stood on the ele- of friendly criticisms. vated platform and had an opportunity to get a good view of the pig before me. It was an evenly proportioned pig, with perfect head, and top and bottom lines. For years I had held in mind an ideal of the bull Belvedere, by shouting "Eu-

and experienced breeder of pure-bred swine, (the class Mr. Kelly was talking to), it is different. There are fine shadings in build and capabilities in development that the skillful breeder can see and I was gratified to notice in the issue of comprehend, and thereby avoid the evils the Michigan Farmer of June 25, page 5, when apparent. He knows well that the foundation, the frame work, must be well I made some time ago on the time of developed while young, or it never can selecting the brood sows. I was glad to be afterwards, and the vital organs, the notice that Mr. Kelly frankly admits that seat of constitutional vigor, must have I was right on this point and I appreciate full development and free play. It is not his gentlemanly manner in referring to the fine-boned, fat, wheezy pig that wins today as an economical pork producer, or as a prize taker, but it is the harmonistant growth of all parts from the time the effect of fixing them in the minds of it chased its dam in pursuit of food and the practical breeder. If they were left enjoyed a frolic, to the time it is driven unnoticed their importance would not out as a highly developed specimen of its have been appreciated. By private letter, breed, to win the awards given by the as well as by word of mouth, breeders of judges at the fairs, and meet "the admirall breeds of stock have expressed their ing gaze of the sight-seeing crowds." Let appreciation to me of a friendly criticism us cultivate our perceptive faculties so that we can see that there is a difference between the north and northeast, and also that should be fresh in the minds of that there are shadings of differences between the excessively fat pigs, and the auction sale of Berkshires held in the fall strongly and evenly developed pigs that of 1905, there came into the ring a young represent the products of the best skill sow that did not seem to attract much in breeding and management. As a recipattention, and the bidding was slow. As ient of benefits, I appreciate the value

Wayne Co. N. A. CLAPP

#### THE SHEEP MAGGOT PEST.

Large flockmasters whose sheep receive young sow, and as Thomas Bates ex- prompt and skilled attention, are known pressed it when he simply saw the head to be a good deal worried with the depredations of the maggot, while those with reka! I have found it," I felt like saying smaller flocks and less knowledge of how the same thing. I stopped the auctioneer to treat them are frequently more serand called the attention of the bidders to jously troubled by this pest. Three months her fine proportions and harmonious de- will, as a rule, cover the whole period in

1,800 lb. Percheron Stallion, "Bill McGee."

velopment. The bidding was not spirited which it is destructive or meddlesome, and the pig sold at a moderate price. Later I asked the seller how he happened to put so excellent a sow in the sale. He replied that he had plenty of them equally as good and concluded to let her go as a sample. Subsequent showings have not proven that there were many her equal, as the same sow was none other than years of age, farrowed 18 pigs in the spring, was Grand Champion at the New the American Royal at Kansas City, being the sensational sow of the season. A few days after winning at the Royal sow that was not fully appreciated by her breeder when small. She did not accumulate an excessive amount of fat when

the wisdom of it by numerous examples. have been awake to the important subgrowth and development and the superbrane-fat-very often found on the pigs taken, and all be dipped. while running with their mother. "little fat pigs" that appear so very atreduced in constitutional vigor.

Owned by D. H. Tibbits, of Isabella Co.

June, July and August. I have found them at work in May, and also in September, but if they are kept from doing harm from June until the end of August little anxiety need be felt later. maggots are creations of genial weather, and hatch and work readily when the atmosphere is warm and humid. On sul-Lady Nina 5th, 88520, that, when four try days or nights, when thunderstorms may be brewing or occurring, the maggots come and do harm with wonderful York State Fair, and Grand Champion at speed. If neglected for a day or two the maggots may be present in hundreds or thousands, and burrow in the raw flesh. Then the sheep deteriorate rapidly. The she farrowed 16 pigs, a total of 34 during sheep that seek relief from the maggot the year. Such was the outcome with a amongst the brambles or bushes in a wild pasture are only encouraging the maggots, as trees and foliage are favorite haunts of the fly. Sheep pastured on upyoung, and therefore her vital energies land rarely suffer so much as those on the were not diminished.

| Downlands | Pasturing | Downlands | Pasturing | Downlands | Pasturing | Downlands | Downlands | Pasturing | Downlands | Downlan As to the paragraph quoted by Mr. open, upland fields is one of the best pre-Kelly in regard to developing young ani- ventives I know, short of actual dipping. mals, I am ready to say that I do not Many sheep owners seem unwilling to desire to change it in the least. It is the dip, which I cannot understand. Once a doctrine I have advocated and can prove sheep is dipped it may be taken for granted that there will be no worry for I think Mr. Kelly is in error if he thinks animal or owner, for some time, and this I am trying to play "possom." I think I is an immense relief to both. I would not dip till I knew the maggots were ject of distinguishing between constant there, but this is often learned all too soon in many instances, and on the first abundant accumulation of adipose mem- appearance the hint should be promptly The inexperienced, however, often hard-

would be well if we all would keep our ly know when the maggots are present. perceptions sharpened so well that we Never look at or count the sheep at this will not be misled and deceived by the time from a distance, but walk among them and cast an eye on every one. If tractive while young, but are, in reality, the tail is wagged in a creepy way, the head thrown suddenly back to bite some With the average farmer and pig raiser spot, and oily, sticky spots appear any-

these fine distinguishing differences are please mention the michigan farmer not well understood. With the practical when you are writing to advertisers.

SPREADING LIME AND COMMERCIAL FERTILIZERS BROADCAST ON THE SOIL.

The universal practice in European countries is to sow these artificial fertilizers broadcast, for the reason that all the soil is thus made equally productive, so that no matter in which direction the plant roots spread the plant food is there. Our farmers in this country are practicing this method more and more. Our prediction, now that there has been perfected a machine that successfully sows in wide range of quantities such enrichers as granular lime, nitrate of soda, land plaster and all commercial fertilizers is that the farmers in America will use the broadcast method. The machine to which we refer is the Empire Broadcast Fertilizer Sower, made by the American Seeding-Machine Co., Incorporated, Richmond, Indiana. Write the manufacturers for a copy of their Empire Broadcast Fertilizer catalogue. After reading it, go to your retail implement dealer and insist on seeing the Empire. It is fully guaranteed and you run no risk in buying one.

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that make a horse Wheeze; Roar, have Thick Wind, or Choke-down, can be re-moved with ABSORBINE

or any Bunch or Swelling.
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work. \$2.00 per bottle, delivered. Book 3 D free.

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mankind, \$1.00, delivered. Reduces Goitre, Tumors,
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cele. Book free. Made only by W. F. YOUNG, P.D.F., 268 Temple St., Springfield, Mass,



I'll save your lambs-I'll save your sheep - I'll improve your to such a degree you marvel at the change. I have seen



The Great Worm Destroyer and Conditioner do this so often — seen it almost bring the dead back to life — that I have no the dead back to life — that I have no hesitancy in offering to feed your sheep —your lambs or your hogs, horses and cattle for 60 days to prove its wonder-ful merit, before you pay a cent. Just read this letter:

"My lambs were so sick with worms they could hardly walk. One of them was nearly dead. In ever expected it would live. After feeding them Sal-Vet they got better and all are well and lively now."

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Sal-Vet is a wonder worker, a medicated salt that cleans out the worms—aids digestion—puts stock in the pink of condition. Costs but little, and I prove it does all I claim before you pay. Fill in the coupon—don't delay.

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Dept. M.F. Cleveland, O.

Prices: 40 lbs. \$2.25; 100 lbs. \$5.00; 200 lbs. \$9.00; 300 lbs. \$13.00; 500 lbs. \$21.00



where, with a general harrassed appearance, depend upon it, maggots are there. A sheep with a clean fleece need hardly be suspected, but those with a good deal of droppings adhering to their hind quarters are favorite subjects with the maggots. It is a good plan to anticipate maggots in such cases, and clip off all the dirty wool. If a greasy spot is seen any-where look to that, and take special note of the rump, as thereabouts is the favorite spot for the maggots.

There is a pleasure in exterminating these pests which makes one a perfect savage, but it is useless trying to kill all by hand, and although many stuffs are advised, I have found nothing so effective as the liquid used for dipping. If a quantity of this is kept ready in jar or bottle, and a little of it is rubbed in, where the maggots are, they will be killed with little work and small expense.

As warmth develops the maggot so

work and small expense.

As warmth develops the maggot so freely, sheep with their old coats on are more subject to it than those that are clipped, and early shearing has Jone much to lessen the prevalence of this pest. But clipping is not always a preventive, and a frequent and keen eye must still be kept on them.

It may be well to point out, too, that ambs are sometimes infested with maggots, and it is just as necessary to watch the lambs as the ewes.

Canada.

\*\*FEEDERS\*\* PROBLEMS.\*\*

Fiexseed Meal for Calves.

We have been feeding ground flaxseed to the elevator men say flaxseed is so dear they cannot handle it any more. What would be the best substituted for the reason that it is the far or off contained in this feed which supples the deciency of this element in the skim-milk off calves, now should purchase the whole meal of the flaxseed, not the of cake or meal from which the oil has been exercated, for the reason that it is the far or off contained in this feed which supples the deciency of this element in the skim-milk which has had the fat removed from it sty the separator. The oil made aloo the elevator has had the fat removed from it sty the separator. The oil made aloo to the evator has had the fat removed from it sty the separator. The oil made aloo to the evator has had the fat removed from it sty the separator. The oil made aloo to the evator has had the fat removed from it sty the separator. The oil made aloo to the evator has had the fat removed from it sty the separator. The oil made aloo to the evator has had the fat removed from it sty the separator. The oil made aloo to the evator has had the fat removed from it sty the separator. The oil made aloo to the evator has had the fat removed from it sty the separator. The oil made aloo to the flaxseed is high in price at present, it is really the cheapest feet that such that the second and the evator has had the fat removed from it sty the separator. The oil made aloo to the large amount of readily digestible fat which it contains. It is worth i meal and skim-milk make a very well balanced ration. This feed, however, would be improved by the addition of some sifted oat meal, particularly when the corn meal is first substituted for the a flaxseed meal, but, owing to its peculiar adaptability to this use, the extra expense for a few pounds of flaxseed meal upon which to start the calf will be well repaid, even if purchased at a high price from your grocer or druggist.

#### LIVE STOCK NOTES.

If meat eaters could buy mutton and lamb in the butcher shops at relatively the same prices as live sheep and lambs are bringing, consumption would be wonderfully increased. Retail prices all the year have been entirely out of line.

Around 2,000 unbroken range horses, chiefly from Wyoming and South Dakota, were sold recently at auction in Omaha, where there was a large attendance of buyers from all parts of the country. The horses sold all the way from \$1000 140 for the better class down to \$15.00 for the commoner ones, with the best horses selling \$20.00 do when the sensational prices paid last year.

The state wool associations of Wisconsin, Minnesota, Wyoming and New Mexico have obtained an option on a plant located in Albuquerque, N. M., where their wool will be manufactured. The members of the associations are determined to fight the trust, which they accuse of forcing the decline of prices.

A Chicago report on cattle conditions says: "Cattle feeders have been afraid to carry steers into the heavy stage for months past, retaining vivid recollection of the punishment that policy entailed a year ago. As a result finished bullocks are as scarce as in 1902, and prices are gradually working higher. The country has been bullish on corn and bearish on cattle, the logical sequence of this sentiment being plenty of feed at this juncture, but empty feed lots, as cattle have been pushed into the market arena as fast as they were ready."

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

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

Spinal Disease.-I would like a little ad-Spinal Disease.—I would like a little advice regarding the doctoring of a calf that seems to have but little use of its hind quarters. This calf, when assisted on his feet will walk a short distance, then commence wabbling behind and soon falls down and is then quite helpless. This calf eats and drinks all right. A. B., McBain, Mich.—Your calf will never recover.

(Continued on page 31).

# KEKIONGA STOCK FARM

DECATUR, IND., Importers and breeders of

# Belgian & Percheron Stallions and Mares.



Our last Importation arrived last November, and are in a very good condition and of the VERY BEST TYPICAL DRAFT QUALITY. We have over 60 head of Stallions and Mares from two to five years for sale, and we invite prospsective buyers to come to our barns where he will find THE IDEAL DRAFT HORSE, of both breeds above mentioned. Our terms are liberal, and every sale is backed up with the best of guaraniess.

Write, or better-come and see us. Address FRISINGER & SPRIINGER Decatur, Indiana.

FRISINGER & SPRUNGER, Decatur, Indiana.

WINTER WHEAT ACREAGE.

It is idle to suppose that the acreage of winter wheat will be less in 1911 than in 1910. It would be a grave mistake for our readers to plant fewer acres this year than they did last. This being the case a good many of our farmers are going to buy a grain drill this fall. Now, what drill will they buy? There are a great many drills on the market, and it is essential to act wisely. Therefore, we urge our readers to investigate the Buckeyea drill that has given the best of satis faction for more than fifty years. This drill has positive force feeds for both grain and fertilizer. Any style furrow openers can be had-single or double discs, hoes or shoes in plain grain and combined grain and fertilizer styles. Send for a Buckeye catalogue to The American Seeding-Machine Co., Incorporated, Springfield, Ohio, and then go to your nearest implement dealer and ask to see the Buckeye. Our readers are assured that the drill will do all the makers claim for it, because it is sold under one of the strongest guarantees possible to make-a warranty that absolutely protects the

For Sale—Horses, Cattle, Sheep, Hogs, Dogs or Poultry, nearly all breeds. Sirce exchanged. Southwest Michigan Pedigreed Stock Association, R. E. Jennings, Sec., Paw Paw, Mich.

#### BREEDERS' DIRECTORY.

CATTLE.

#### ABERDEEN-ANGUS.

Herd headed by UNDULATA BLACKBIRD ITO S3836, one of the best sons of PRINCE ITO 50006, and Grand Champion Bull at the Detroit and Grand Bapids Fairs of 1907, 1908 and 1909. Herd consists of Ericas, Blackbirds, Prides, etc.

WOODCOTE STOCK FARM. Ionia, Mich.

Ayrshire Bull Calves. Berkshire swine. Eggs for setting. High bred stock. White & Buff Orplingtons, White & Barred Rocks. Light Brahmas, White Leghorus and White Wyandottes \$1 per 15. Mich. School for the Deaf, Flint.

Angus Bulls -Polled Durhams, Hampshire Cotswold, and South Down Rams on sale at Clover Blossom Farm, Port Austin, Mich.

GUERNSEYS-BULL CALVES. Herd tuberculing tested. ALLAN KELSEY, Lakeview, Mich.

FOR SALE-GUERNSEY BULL CALVES. J. L. SNYDER, East Lansing, Michigan.

Maple Ridge Farm Breeders and Importers of high class Guernseys. Write us your wants. E. & J. T. MILLER, Birmingham, Mich.

CHOICELY BRED HOLSTEIN-FRIESIAN Bull Calver prices. Cole Bros. Ypsiland Farms, Ypsiland, Mich

FOR SALE-7 choice young registered Holstein sires ready for service. WILLIAM B. HATCH, Ypsilanti, Mich HOLSTEIN FRIESIANS—Buil calves. Her Mercedes Royal King. W. B. Jones, Oak Grove, Mich

5 Holstein Service Bulls For Sale.

Any one of which have breeding and individuality that qualifies them to head any herd. Bull calve and a few good cows. L. E. CONNELL, Fayette, Ohio. TOP NOTCH HOLSTEINS.

Top Notch registered young Hoisteln Bulls com-bining in themselves the blood of cows which now-hold and have in the past held World's Records for milk and butter-fat at fair prices. MePHERSON FARMS CO., Howell, Mich.

HOLSTEIN BULL CALF from two breed. C. D. WOODBURY, Lansing, Michigan.

HEREFORDS: Both sexes and all ages for sale. Also Poland-China hogs. R. E. ALLEN, Paw Paw, Mich.

LILLIE FARMSTEAD JERSEYS We have some splendid young bulls for sale. Some of them are old enough for service. They are from cows with records of 300 to 425 pounds of butter last year. Write for description and prices.

COLON C. LILLLIE, Coopersville, Mich.

JERSEY BULL CALF born October 4th '09. Dam gave 9,388 lbs. milk in one year, test 5 to 55%, Sire's dam's record 10,060 lbs. milk in 10½ months test 5 2-10 per cent. The Murray-Waterman Co., R. D. 6, Ann Arbor, Mich.

FOR SALE—12 registered Jersey Cows of St. Lambert and Island blood, from 2 to 10 years, all fresh or nearly so. Price \$100 each if taken at once. C. A. Brsitol, R. F. D. 5. Fenton, Mich. FOR SALE—Jersey Bull Calves from 3 to 9 mos. old. Fine thirfty fellows and from extra good cows. A. Newman, Marlette, Mich. R. F. D. No. 1.

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

Register of Merit Jerseys. Official yearly records.

### NORTHERN GROWN JERSEYS WITH BIG MILK RECORDS. ECULIN TESTED BY STATE VETERINABIAN ROYCROFT FARM, Sidnaw, Mich.

SHORTHORN cattle of both sexes at reasonable prices. I breed for both milk and beef. Come or write. T. M. SOUTHWORTH, R. No. 13. Box 73, Allen, Mich

SHEEP.

**Parsons Poll Delaine Rams** Register, M. A. Bray, Okemos Ingham Co., Mich.

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MENTION THE MICHIGAN FARMER when Oxford-Down Sheep and Polled Durham cattle for sale, A. D. & J. A. DEGARMO, Mulr, Mich

OXFORD DOWNS A few good field rams for sale. H. J. De GARMO, R. No. 1. Clyde, Mich.

SHROPSHIRE HALL STOCK FARM Will import one hundred yearing ewes and 15 rams in June for Michigan and the same for Bolse, Idaho, Branch of this Farm. Will make a fair price on yearing ewes or rams, also on some aged ewes with lambs at attactors. lambs at side, for 60 days. L. S. DUNHAM & SONS, Concord, Michigan,

130 Reg. Rambolllet Ewes for sale, descended from the best flocks and bred to a pure Van Homeyer and a ram sired by a Gilbert ram and imported dam. All in perfect health. In lots to sult buyers—none reserved. J. Q. A. Cook, Morrice, Mich

HOGS.

### LARGE ENGLISH BERKSHIRES.

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

HUPP FARM BERKSHIRES!

WON 189 PRIZES IN 1909.

Stock of both sexes and all ages for sale. Breeders of Guernsey Cattle, M. B. Turkeys, Barred Bock Chlokens, Pekin Ducks. GEO. C. HUPP, Mgr., Drawer A Birmingham Michigan.

BERKSHIRES Unexcelled in breeding. Selected boars, sows and glits. Choice fall pigs. T. V. HICKS, R. No. 11, Battle Creek, Mich.

HIGH CLASS LARGE ENGLISH BERKSHIRE PIGS sex. W. J. ROSS, Rochestor, Michigan.

BERKSHIRES of the most type and strains. C. S. BARTLETT, Pontiac, Mich.

BERKSHIRES. A few good young boars ready for service, sows immediate sale. Ask for catalog. Roycroft Farm, Stdnaw, Mich.

Berkshire—A few choice fall Gfits bred for early far-rowing and a choice lot of Spring Pigs with prices right and the right breed. A. A. Pattullo, Deckarville, Mich.

A DAMS BROS. Litchfield, Mich., breeders of Im-Pigs, either breed, by 1st prize State Fair winners. Buff Rock, Buff Wyandotte oggs \$1 per 15; W. Orpington \$3 per 15.

Improved Chesters—Sows bred for Aug. and Sept. farrow. Choice March and Apr. farrow, either sex also W. Wyandotte Eggs \$1 fa pt. W. O. WILSON, Okemos, Mich. (Both Phones).

CHESTER WHITES -Spring pigs and bred sows for fall farrowing. Also Guernsey Cattle. Catalog free. WILL W. FISHER, Watervilet, Michigan

FOR SALE **3 Registered Duroc Jersey Boars** Farrowed Oct. 7.

\$15.00 Each. Certificate of Registration included. W. C. CARR, E. F. D. No. 1, Sylvania, O.

DUROC JERSEYS.
CAREY U. EDMONDS, Hastings, Michigan.

DUROC JERSEY HOGS of all for sale. Pigs in pairs not akin, ready to ship. Meadowbrook Seed Furms, Williamsport. O.

DUROC JERSEY SWINE. Shepherd Dogs. B. Rock eggs. \$1 for 15. J. H. BANGHART, Lansing, Mich.

WALNUT HILL FARM Herd of Duroes. Bred sows all sold.
35 fine fall sows, 15 fine fall boars ready for service. 100
spring pigs to date. Write J. C. Barney, Coldwater, Mich.

O. I. C. bred sows all sold. Have a few hand. GEORGE P. ANDREWS, Dansville, Mich.

O. I. C. REGISTERED PIGS, 10 to 12 weeks from World's Fair winners. Glenwood Stock Farm. Zeeland, Mich. Phone 94.

O. I. C. REGISTERED PIGS March and April litters. Pairs not akin. HENRY RIGTERINK, Hamilton, Mich. O. I. C. SPRING PIGS and a few BRED C. J. THOMPSON, Rockford, Mich.

0. I. C. Spring Pigs For Sale, 14 choice boar pigs and 17 choice sow pigs. Satisfaction Guaranteed. Fred Nickel, Monroe, Mich., R. No. 1.

30 P. C. Fall Pigs—by two champion boars. Book-ing orders for weaned pigs by 10 different boars. WM. WAFFLE, Coldwater, Mich.

BIG WESTERN TYPE POLAND-CHINA PIGS, by three big Western Boars and from Big Sows. Prospects for 600 to 1000-lb. hogs. They keep easy and grow fast. Bred big for nearly 20 years. Bell phone. J. C. BUTLER, Portland, Mich.

FOR SALE—4 P. C. boars ready for service. Eggs for hatching & prize winning Regal White & Columbian Wyandottes, Zach-Kinne, Three Oaks, Mich.

LARGE TYPE POLAND CHINAS—Largest in Mich. Booking orders for pigs to be shipped at 4 to 5 mos. of age. Write for weights and measurements. W. E. Livingston, Parma, Mich.

to ship. WOOD & SONS, Saline, Mich.

P. C. PIGS Singly or in pairs not akin.

M. M. MILLS, Saline, Michigan.

Poland Chinas Boars, Gilts and Pigs price. B. M. WING & SON, Sherdian, Michigan,

Poland-Chinas—Large stiled, early spring plgs, and older sows bred. Also Shorthorn calves. Prices right, Robert Neve, Pierson, Mich.

For Sale--500 Grade Yorkshire Weaved Pigs each \$5.00. BROWN'S PIG FARM, Grand Rapids, Mich.

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

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mon, complicated cream separator. Say to him—

(1) "Are those disks or other contraptions in your separator intended to help it skim?" The agent will have to say "Yes."

(2) "Then you need such contraptions in your separator because it does not produce skimming force enough to do the work properly without them?" The agent will have to say "Yes."

(3) "Then a separator that does produce enough skimming force to do the work without disks or other contraptions must be a better and more modern machine than yours?" The agent will have to say "Yes" or else evade your question.

The agent's own answers convict him of try-ing to sell an out-of-date machine.

#### Sharples Dairy Tubular **Cream Separators**

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30 cents worth saves \$10 worth of milk and fiesh on each cow during fly season.

No Lice in Poultry House or any place it is sprayed.

If dealer offers substitute, send us his name and \$1 for 5-tube gravity Sprayer and enough SHOO-FLY to protect 200 cows Name express office. \$1 returned if animals not protected. Free brooklet. Special terms to agents.

Shoo-Fly Mfg. Co., 1323 N. 10th St., Phila., Pa. Editor knows from experience that Shoo-Fly is O. K.

Herdsman Wanted —I want a good take charge of my herd of Jersey Cows. Must be a married man. House furnished. Steady job and good wages to the right man. Can use a man of limited experience if he is willing to learn.

COLON C. LILLIE, Coopersville, Michigan

WANTED-Married man to take charge of a dairy on the Cornwell Farm, Clare County, Give ref. erences and address W. C. Cornwell, Saginaw, Mich-

CONDUCTED BY COLON C. LILLIE.

KEEPING UP THE MILK FLOW.

The extremely hot and dry weather of the past few weeks has shortened the season for June grass pastures and brought the season of supplementary feeding much earlier than dairymen are accustomed to. But where the pastures are failing it is the poorest kind of policy to allow the cows to shrink in their milk flow before supplementary feeding is commenced. A liberal grain ration will aid materially in keeping the cows up to a full flow of milk and some of the new clover hay can be fed with profit. The cows will eat the new, early cut clover hay with relish and will eat more of the dry pasture grass than would be the case if some green feed were used for soiling them to help out the pasture and they can be kept up in their milk flow fairly well on this combination of feeds. But if they are allowed to shrink in their milk flow at this season they can never be gotten back to a normal production again this season. Such extreme weather is hard on the cows, especially when the flies commence to be troublesome, even on good pasture, and is doubly so when the to an extent which makes it unpalatable and less digestible than the fresher pasture which is generally at its best in

#### HOW TO TEST MILK ON THE FARM.

It is a simple and easy matter to test milk and cream, and it is an operation that can be done by any farmer with very little practice. The importance of testing the milk or, more exactly, the individual cows, cannot be too strongly emphasized. If those who keep cows knew how simple and easy it really is to test milk, more Babcock testers would be in use today, and it is encouraging to note that each year finds more of them in actual use on the farm.

A testing outfit consists of a machine for whirling test bottles, the test bottles which hold the milk to be tested, pipette for measuring the milk, an acid measure for measuring the acid, and a bottle of commercial sulphuric acid. The outfit complete need not cost over five dollars, and some can be bought for even less than that amount. After one has the tester there is practically no further expense. The acid is cheap stuff and a cent's worth will test several samples. The first thing is to study the general instructions that accompany every tester.

A pipette is furnished with every machine for measuring the milk. This secures the proper amount and there is no danger of getting too much or too little milk if the pipette is filled to the mark and one is careful not to spill any before it is emptied into the bottle. Before filling the pipette the milk should be thoroughly mixed, which is best done by pouring from one dish to another several times. This mixing must be especially observed after the milk has stood for some time, but it is not so important when the sample is taken from freshly drawn milk. The best way of securing the sample is at milking time and while the milk is yet warm. Be sure to milk the cow thoroughly dry; empty it from one pail to another once or twice, fill the pipette to the mark and empty it into the test bottle. Never take a sample from a cow's milk before it is together as a whole, because different parts of the milk drawn from the first to the last stripping varies greatly in richness. I believe that the most important part of the testing is to get a fair sample of the milk, because, unless this is done, however careful the after work is carried on, the result of the test will be misleading and one will be deceived.

After the Sample Has Been Taken.

After the milk has been measured by means of the pipette and emptied into fully poured into the test bottle containthat the acid will run down the side of order to be used as an absorbent.

the milk and does not mix with it. The acid must be poured into the bottle slowly and carefully.

With the acid in the bottle under the milk, it is ready for mixing. Do this gently by giving the bottle a rotary motion, and never by an up and down mixing, which might cause the contents of the bottle to go out the neck. As the acid and milk mix, the mixture becomes hot and changes to a dark brown color. Continue this mixing until it is of a uniform dark brown color and the acid and milk have been thoroughly mixed. Each bottle should be so treated and then placed in the tester.

Whirl it for five minutes at about fortyfive turns per minute, more or less, depending upon the make of tester. Then fill each test bottle to the neck with hot water, preferably soft water, and turn again for three minutes. After this whirl, add more hot water until the fat comes within the graduated portion of the neck of the bottle and whirl once more for the last time, one minute.

That is all there is to making a Babcock test, and it is almost as simple as doing the milking. It is mainly a mechanical operation and requires no scientific skill except ordinary carefulness and attention. Of course, the weights of milk and acid used are designated by the metric system, such as cubic centimeters, grams, etc., but it matters not what they are called. One cannot make a mistake feed is short and insufficient or dried up if he secures the sample for testing as suggested, measuring it with the regular pipette furnished, and mixes it with the acid according to directions.

Reading Test and Figuring Total Yield of Butter.

The reading of the test is done by subtracting the lower point reached by the fat column from the upper point reached the fat on the graduated scale. The reading should be made while the fat is yet hot and liquid. If they become cold they should be set in hot water until the fat is in a melted condition. One way to read the test is to measure the fat column with a broom splinter; then put one point on the zero mark and the mark reached by the other point will indicate the test. The best way of measuring the fat column is with a compass or pair of

dividers.

The ordinary test bottles are made to read from zero to 10 per cent, each per cent being divided into fifths, or twotenths of 1 per cent. Milk varies from about 3 to 61/2 per cent. To find out the amount of fat from the test, one simply multiplies the per cent test by the amount of milk, just like the simple interest problems we used to do in the old arithmetics. No difference except that one is the commodity milk with the per cent fat, while the other is money with the per cent interest. But butter is not pure fat and contains moisture, some salt, a little casein. To reduce the fat to butter, multiply it by about 16 per cent, add it to the fat and the result will be the amount of butter. Thus, we have 30 lbs, of 5 per cent milk: 30×5 per cent =1.5 lbs. of fat; 16 per cent  $\times$  1.5=.24churn gain; 1.5 lb. $\times$ .24 lb.=1.74 lbs. of total butter.

Another problem, using 4 per cent milk, might suggest the practical difference between two cows giving the same quantity of milk:

 $30\times4$  per cent=1.20 lbs. of fat;  $1.2\times16$ per cent = 19 churn gain; 1.2 plus .19= 1.39 Ibs. of butter.

This may seem like only a small difference, but it amounts to 70 lbs. of butter in a year's milk flow of 6,000 lbs. from one cow. The Babcock tester enables every farmer to find out these facts concerning the cows of his herd, and it is one of the most profitable little investments he can make.

Pennsylvania. L. J. HAYNES.

#### PEAT AS A STABLE ABSORBENT.

I saw in the Michigan Farmer that peat was a good stable absorbent and I would like to try it. Can you tell me where I can get it?

Allegan Co.
Dried peat, or dried muck, certainly

make a most excellent stable absorbent. the test bottle, it is ready to be mixed It will absorb odors and moisture in the with the acid. It is a good idea to get all stable equal to anything that you can use, the milk into the test bottles before mix- but so far as I know, dried peat or dried ing with the acid. The acid is poured muck has not been put on the market. into the small glass measure for measur- Almost every neighborhood in Michigan ing it until it reaches the mark indicat- has some peat or muck swamp where one ing the amount to use, and then care- could, if he desired, secure all of this product that he wanted. The best way ing the sample of milk. The test bottle to prepare it would be to throw it on the must be held by its neck and inclined so surface, let it freeze and then dry it, in the bottle and not through the milk, action of frost pulverizes it so that it is When it is held this way the acid col- more readily dried out and is in much lects in the bottom of the bottle under better shape to be used in the stable.



# **Now The Time** To Buy A CREAM SEPARATOR

The hot weather "dog days" are at hand when you need a DE LAVAL Cream Separator most, with its great time, labor and quality savings over any gravity system or any other so-called separator.

Considering the season and high butter prices there never was a better time to make this most neccessary and profitable of all dairy investments, with one cow or a thousand, than right NOW.

Don't foolishly put off this wise purchase that will half save its cost by autumn and fully so by another spring, in addition to the oceans of comfort and satisfaction its use brings to the whole family.

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With one horse you can bale a ton an hour with our wonderful Daisy. Selffeed, condenser, bar-sided hopper, and self-threading device, reduce hand work, in-crease baling capacity. Five days free trial. Write today for prices and testimonials. We have hundreds of delighted users.



# **Afraid** Ghosts

Many people are afraid of ghosts. Few people are afraid of germs. Yet the ghost is a fancy and the germ is a fact. If the germ could be magnified to a size equal to its terrors it would appear more terrible than any fire-breathing dragon. Germs can't be avoided. They are in the air we breathe, the water we drink.

Germs can't be avoided. They are in the air we breathe, the water we drink.

The germ can only prosper when the condition of the system gives it free scope to establish itself and develop. When there is a deficiency of vital force, languor, restlessness, a sallow cheek, a hollow eye, when the appetite is poor and the sleep is broken, it is time to guard against the germ. You can fortify the body against all germs by the use of Dr. Pierce's Golden Medical Discovery. It increases the vital power, cleanses the system of clogging impurities, enriches the blood, puts the stomach and organs of digestion and nutrition in working condition, so that the germ finds no weak or tainted spot in which to breed. "Golden Medical Discovery" contains no alcohol, whisky or habit-forming drugs. All its ingredients printed on its outside wrapper. It is not a secret nostrum but a medicine OF KNOWN COMPOSITION and with a record of 40 YEARS OF CURES. Accept no substitute—there is nothing "just as good." Ask your neighbors.





### BEE KEEPERS' SUPPLIES. Sections, Foundation, etc. Everything for s. Beeswax wanted. Send for catalog.

BERRY BASKETS. Order your bee supplies and berry baskets at san time and savelireight expense. Prices given in catalo

M. H. HUNT & SON, 110 Condit St., Lansing, Mich.

ECGS FROM ANY OF OUR PENS \$1 per 15 or \$4 per 100 on orders to be delivered after June 1. H. H. KING, Willis, Mich.

FINELY BRED R. C. & S. C. Rhode Island Red Hens, \$1 to \$2 each, to reduce stock. Eggs \$1 per 20. BUELL BROS., Ann Arber, Michigan.

[Coopers S. C. Brown Leghorns are "Egg Layers"] Hatching eggs 98c per 15; \$1.40 per 30; \$4 per 100. WM J. COOPER, Mt. Pleasant, Mich.

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BARRED PLYMOUTH ROCK eggs for hatching from 15 for \$1.00, 26 for \$1.50, 50 for \$2.50, 100 for \$4.50. COLON C. LILLIE, Coopersville, Michigan.

WHITE WYANDOTTES—The unsurpassed business hen. Eggs \$1.50 per 15 or \$2.50 per 30. A. FRANKLIN SMITH, Ann Arbor, Mich. SINGLE COMB WHITE LEGHGRN eggs for hatching prices

15 for \$1.00, 26 for \$1.50, 50 for \$2.50, 100 for \$4.50. COLON C. LILLIE, Coopersville, Michigan. THE best in S. C. White Leghorns, White & Buff Rocks and Columbian Wyandottes. Eggs \$1,25 per 15; \$5 per 100. C. W. Hurd & Sons, Davison, Mich.

R. C. WHITE LEGHORN EGGS, from hens bred to lay. \$1 per 15; \$5 per 100. Also Colle pups. A. R. GRAHAM, Flint, Michigan. HATCH your S. C. Brown Leghorns now. Eggs \$1,50 per 30 or \$4 per 100. Lewis T. Oppenlander successor to Fred Mott, B. No. 4, Lansing, Mich

White Wyandotte eggs for hatching from for 15, \$1.50 for 26, \$2.50 for 50 and \$4.50 per 100 COLON C. LILLIE, Coopersville, Michigan.

DOGS

FOR SALE Pure Bred Scotch Collie Puppies. R. L. TAYLOH, Almont, Michigan.

UTILIZING POULTRY MANURE.

nure. Making what I consider a rather and of Perfection, a volume which should low estimate of the amount of manure be in the hands of every breeder of showproduced by fowls, I think that 100 ordi- room poultry. nary sized hens will produce at least one ton of manure in a year. After this has been mixed with about twice its bulk of earth you can see what an immense amount of first-class fertilizer you have. A great many seem, however, to regard brooding to some extent, mostly with the it as more bother than it is worth, and therefore it is gotten rid of in the easiest

Poultry manure is very rich in ammonia and phosphoric acid, and these are prominent among the constituents of firstclass fertilizers. I have been using some of this manure as a top dressing for garden crops, and find it excellent. I think that at no time is there more plant food in this manure than when it is first made, and for this reason the droppings should soil as soon as possible. The best plan is to spread it evenly over freshly worked land and then mix soil and manure thoroughly by means of the free use of the harrow or a rake of some kind. When applied to growing crops it may be worked in with the small-toothed cultivator. This, however, is only practicable during the summer season. In cold weather it should be mixed with some good garden loam and stored in some out-building, to be spread when the ground is in shape.

Old barrels are excellent for storing this by-product. If there is no building in which the barrels can be placed, they may be set in rows and covered with boards to keep out rain and snow. When the barrels are empty in the spring, store them away for use again the next winter. A great many fail to save the droppings because they do not have things as convenient as they would like. This, however, I find to be more of an excuse than a reason. If your poultry house is not so arranged that the saving of the manure is easy, it will not be a great job to so arrange it. The arrangement suggested above is very cheap. During the summer it can be applied directly to the soil; in winter it can be stored in barrels or boxes, kept sheltered from rains and snows, and applied when the ground is in shape.

This question of saving the poultry manure should concern every farmer who is keeping a flock of poultry. It will be surprising to see what the droppings will do to a piece of land if you have never tried using them as above suggested.

R. B. RUSHING.

### JUDGING POULTRY BY SCORE CARD.

Illinois.

I am very much interested in pure-bred poultry and would like to know how fanciers score their birds. I have read a great deal about poultry scoring 90 to 95 points but do not understand it.

St. Joseph Co. L. A. P.

The statement that a fowl has made a certain score, or has scored a certain number of points, means that the scorecard system of judging was employed and that the judge found the fowl entitled to the number of points stated, out of a possible 100. When any breed gains the recognition of the American Poultry Association it is admitted to the so-called Standard of Perfection and is given a scale of points by the Association. This scale of points is simply an enumeration of the various parts and qualities of the fowl which are to receive the attention of the judge or scorer, together with a statement as to the requirements for a perfect score in each, and the penalty or "cut" for each defect or deficiency. The points considered in scoring are the same for all breeds, and the judge, in scoring a fowl, is required to pass upon the fol-Symmetry, weight or size. condition; comb; head; wattles and ear lobes; neck; back; breast; body and fluff; wings; tail; legs and toes. In each of these, excepting the first four, shape and color are passed upon separately, in some instances the one being valued considerably above the other. In fact, the value placed upon each of the sections making up the scale of points varies with the different breeds. this variation being due to the fact that the breeders of one breed place greater stress upon certain features of their fowls than do those of another breed. As a general rule, those markings or features most difficult to bring to perfection are given the higher number of points in making up a scale of points, but, no matter

how many points are given to each section in the card, the total is always 100. However, in most breeds the requirements of the standard are placed so high that comparatively few fowls score above 96 points. Accurate descriptions and standard requirements of all breeds recog-Many people do not fully appreciate the nized by the American Poultry Associa-quality of fertilizer stored up in hen ma- tion are published in the American Stand-

#### EXPERIENCE WITH FIRELESS BROODERS.

This season I have been trying fireless late hatches. It has given me an excellent opportunity to add to my poultry knowledge, though at the cost of a number of chicks. Never having used the heatless brooders before I naturally made some mistakes, the more because my brooders and hovers were home-made and rather crude. On the whole, my experiments were fairly successful and I learned enough to insure much better results with later hatches. The first mistake I made was removing the chicks from the incube gathered frequently and applied to the bator too soon. Newly hatched chicks put into a cold hover are sure to be Even if the hover has been chilled. warmed there will not be sufficient heat keep the chicks comfortable. should be left in the incubator at least forty-eight hours and I have had better success by removing the egg tray and allowing the chicks to remain in the incubator for three or four days. They were taken out regularly to be given feed and water, being kept out only a few minutes at a time. The temperature was kept at 95 degrees the first day, then gradually lowered to 85. By the time they are four days old the chicks, if placed in a properly constructed cold brooder and kept under the hover most of the time until a week old, will generate sufficient heat to keep the temperature high enough. At first I made the mistake of not confining the chicks closely enough to the hover. They should be let out often for food and water, but after a few minutes should be returned to the hover. In this way they soon learn to go to the hover when cold, instead of bunching up I am not yet ready to admit that cold brooders are, for all seasons, as successful as the heated brooders, but for the late hatches I believe they will be found superior.

NAT S. GREEN. Ohio.

#### INCREASING THE PROPORTION OF FANCY COMB HONEY.

Fancy comb honey brings from one to two cents per pound more than No. 1, and from four to six cents more than No. 2. Naturally, then, we are all interested in producing as much fancy honey as pos-

Many bee-keepers imagine that this is controlled entirely by the bees, and that no method which we may use will materially change the percentage of fancy and No. 1. Now to a certain extent this is true, for it is a fact that a certain colony will produce about the same quality of honey, no matter what method is used, with the exception that the stronger the colony the better the sections are likely to be filled. But it is not necessary to allow colonies which do not make the fancy grade to finish off any honey for the

Here is where method may aid in increasing the yield of fancy honey. I make a practice of allowing the poorer colonies to draw out the foundation and bring the sections up to the stage where would soon begin capping. Then I choose several colonies in the yard which have proven themselves to be producers of fancy comb honey and give them these partially filled supers to fill out. Given these drawn and partially filled sections they will finish an enormous amount of them, for these fancy honey producing colonies are energetic fellows, and these partly filled sections give them still greater vim for the work. Consequently, four or five of these colonies will usually finish off the honey for an apiary of 20 or 25 colonies. If you have chosen the right colonies you will have from 75 to 90 per cent fancy comb honey.

L. C. WHEELER.

### HARD TO PLEASE

Regarding the Morning Cup.

"Oh how hard it was to part with coffee, but the continued trouble with constipation and belching was such that I finally brought myself to leave it off.

"Then the question was, what should we use for the morning drink? Tea was worse for us than coffee; chocolate and cocoa were soon tired of; milk was not liked very well, and hot water we could not endure.

"About two years ago we struck upon Postum and have never been without it

"We have seven children. Our baby now eighteen months old, would not take milk, so we tried Postum and found she liked it and it agreed with her perfectly. She is today, and has been, one of the healthiest babies in the State.

"I use about two-thirds Postum and one-third milk and a teaspoon of sugar, and put it into her bottle. If you could have seen her eyes sparkle and hear her say "good" today when I gave it to her, you would believe me that she likes it.

"If I was matron of an infants' home every child would be raised on Postum. Many of my friends say, 'You are looking so well!' I reply, 'I am well; I drink Postum. I have no more trouble with constipation, and know that I owe my good health to God and Postum.'

"I am writing this letter because I want to tell you how much good Postum has done us, but if you knew how I shrink from publicity, you would not publish this letter, at least not over my name."

Read the little book, "The Road to Wellville," in pkgs. "There's a Reason."

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



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WHY PAY RENT when you can buy the Bost Land in Michigan at from \$6 to \$10 an acre near Saginaw and Bay City. Write for map and particulars. Clear title and easy terms. Staffeld Bros., (owners) 15 Merrill bldg., Saginaw, W. S., Mich.

430-Acre Farm With Growing Crops.

430-Acre Farm With Growing Crops.

Easy Torms.

This farm brought its owner an income of \$3,500 last year, can be made to do much better; smooth machine worked fields; cuts 100 tons hay; 200 acres spring and brook watered pasture; good 11-room nouse, 9 outbuildings, including several big barns; perfectly adapted to dairy, hogs. sheep and general crops; ½ mile to creamery, only 3 miles to raliroad; owner includes 20 acres oats, 3 acres carn, 2 acres potatoes and 5 acres buckwheat; only \$5,300, part cash. Complete details and traveling directions to see this and hundreds of other good farms from \$1,000 up, page 10, "strout's Farm Catalog No. 30", copy free station 101. E. A. STROUT, Union Bank Building, Pittsburg, Pa.

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For those who would like to have are daily papers a week, we have aranged with the New York Thrice-athree daily papers a week, we have arranged with the New York Thrice-a-week World so that we can offer it with the Michigan Farmer a year for only \$1.40; that is, both papers a year each for that price. Send orders to us or THE MICHIGAN FARMER, Detroit.



### CHOICE VIRGINIA FARMS





# Watch Your Wheat

While it is ripening and at harvest

Is the yield what it ought to be? Is the grain plump and heavy?

Does it run to straw? Does it lodge? Is there rust or smut in it?

Wheat and the ground it grows on are now worth so much that better yields are imperative. How can they be had? By giving the plants the right kinds and amounts of food. Are the right amounts contained in 1-7-1, the 2-8-2 or the 0-10-2 mixtures? Far from it.

These goods may give the best profit to the manufacturer, but how about the farmer? Can he not get more plant food in better proportions and FREE FROM FILLER by paying attention to the subject now, so that there will be plenty of time to buy his plant food direct or through the local dealer, especially his

# POTASH

# Send for new pamphlet on FALL FERTILIZERS

showing how to make balanced filler-free fertilizers from standard materials that your local dealer can buy by the carload, if you tell him about it in time.

In the past you have had trouble in buying potash. We are now ready to sell anyone for cash, a cargo, a carload, or a ton of potash. We are arranging

distributing points in the wheat belt to save you freight on small lots. Ask your local dealer to arrange to buy a car. If that is not possible, write for prices on what amount you want. You will not have to write nine letters before you get potash prices from us. It will pay you to get them, for

# **Potash Pays**

GERMAN KALI WORKS, Continental Building, BALTIMORE, MD.

# ESTABLISHED 1843.

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#### DETROIT, JULY 9, 1910.

#### 25 CENTS TO NEW SUBSCRIBERS.

We will send the Michigan Farmer to new subscribers to November 1, 1910, in- the home partnership. cluding one of our farmers' pocket account books of 72 pages, all properly ruled under headings, such as daily egg record, hired help, individual account, cash paid out, cash received, etc., also instructions how to keep accounts, also other general information, and 1910 calendar. The Michigan Farmer to Nov. 1, 1910, and account book sent postage paid for only 25c, or the Michigan Farmer to November 1, for only \$1.00. Order through agents or send direct to this office.

#### CURRENT COMMENT.

Committee's Report, to the Senate of advertising. It is difficult to see the conupon the subject of the high cost of living, made pursuant to investigations of price are not of a class which are adverthis subject, was summarized in our last tised to any extent and to which the cost issue. As noted in that issue, it contains of advertising is in any sense added to some solid information of value and much the price to the consumer. Agricultural some solid information of value and much food for thought for the producers of foodstuffs in this country. The figures given in this report make it very apparent that the great law of supply and demand has been actively at work and aided by other conditions, noted in this report, in bringing the farmers of the country an increased prosperity for which they have waited long and labored persistently, sometimes without the reward which was their earnest labor's just due. At the same time this report brings out the fact time this report brings out the fact commented upon a few of its phases. that there has been a marked increase in the cost of producing farm products, a fact which "the other half" has not fully appreciated if the sentiments publicly expressed in various ways are to be taken as an index of the general opinion of consumers upon this point. We believe that the publicity given to this report will disabuse the minds of many of the erroneous opinion that the farmers of the country have been getting more than their fair share of business prosperity through the increased price of their pro-

A phase of this report which should not passed over without special notice, is the recognition of the fact that the increased banking facilities in agricul-

tural localities have operated to the ben-The Michigan Farmer efft of the farmers in those localities, better enabling them to the hold their crops and market them to the best advantage, THE LAWRENCE PUBLISHING CO., and market them to the best determined the best desired increasing the average market price for their commodities. This is a factor in the well being of the farmers of the country to which we have referred many times in these columns. In it is also a suggestion that the farmers of any section may profitably extend their relations with their banker, in this direction, to the end that they may share more equably in the benefits which undoubtedly accrue to them from such relationship and which are recognized in this report. The benefit which adequate banking facilities has proven to the farmers of the country was most thoroughly demonstrated in the near panic which has not yet passed from our acute remembrance. With the greater prosperity which has come to them, and the consequent increase in the number and strength of country banks, comes a broader field of usefulness for these institutions and a wider opportunity to profit by them to the farmers of all sections of the country.

Another factor in the higher cost of living which is made prominent in tais report and which applies to farmers as well as to the city consumer to no small degree is the increased tendency to purchase supplies in small quantities and ready for consumption, instead of in quantities or in the form of raw material. In few farm homes today are to be found the barrel of sugar, the supply of flour or cured meats which were considered a necessity of a few years ago. More generally these are purchased as needed in small quantities and in the ready-to-eat form which, while a convenience to the housewife, increases the cost of living not a little. The proper relationship of these factors is a good subject for thoughtfui study. Not that we would advise increasing the cares of the too often overworked housewife to reduce the cost of living, unless absolutely necessary, nor that we would deprecate that fact that a higher standard of living is more general today than in former years. On the contrary we consider these to be desirable things, but simply suggest that there may be at hand the means of somewhat cheapening the cost of living upon the farm without the disadvantages implied, if a little thought and attention is devoted to this factor by both members of the home partnership.

Another possible opportunity for bettering farm conditions which is suggested in this resport is that of the organization of producers. We have dwelt upon this producers a little milleading in this respect, as it would be interpreted by the average reader. Organizations of producers of not necessarily increase the price to the consumer, but may, which would likewise seem to be an little milleading in this respect, as it would be interpreted by the average reader. Organizations of producers of not necessarily increase the price to the consumer, but may, without a likewise seem to be misleading, is that of advertising. It is difficult to see the connection in this case, particularly as the articles which have increased most in this report as the readers of the little and the readers of advertising it is not only the producers.

Another possible opportunity for well as to the city consumer to no small degree is the increased tendency to pur-

1911, and a two-bladed, razor steel, brass-lined knife, worth 75 cents, postage paid, producers do not necessarily increase the

The report of the tioned in this report, and which would Senate Committee likewise seem to be misleading, is that of the United States nection in this case, particularly as the

#### HAPPENINGS OF THE WEEK.

Foreign.

The Russian government is about to communicate to other countries an agreement with Japan regarding the interests of the two countries in Manchuria. For a long time representatives of these two nations have been working upon a plan for the control of Manchuria that will protect the interests of each and overcome the possibility of conflict as far as possible, and it seems that a very favorable convention for the securing of such a purpose has been agreed to. The governments are to maintain jointly the status quo in Manchuria, both as regards to territorial and administrative control, and they co-ordinate the railroad interests there.

Japan has taken over the police power of Coreal It is helieved that this is a step

Japan has taken over the police power Corea. It is believed that this is a step the direction of annexation of the

penipsula to Japan. The garrisons are being strengthened. Japan has promised Ocrea's ruice case and luxury, which is gotiations that recently resulted in attengtivening Japan's hold upon the strengthening Japan's hold upon the Trot. The third of the strength of the stre

An areonaut fell at Caro, Mich., July 4, a distance of 100 feet, and was killed. About the same time at Vassar, a town some 13 miles distant, another balloonist fell about the same distance, but he still lives.

Genesee Co., July 4.—A period of extreme heat has set corn and other crops to growing at a great rate. A fair stand is seen in most fields although hardly up to the average for this date. Beans are generally looking well. Late potatoes just starting. Sugar beets not far from the average. Haying begins this week in earnest, and a large acreage of clover will be cut in the next few days. The yield is good but scarcely up to that of last year. Wheat beginning to turn and a fair crop and better than in some instances. Old hay freely offered with quite a fair crop and better than in some instances. Old hay freely offered with quite a fair tonnage unsold. Wages for hay and harvest fields high and help scarce. Quite a number of farms in this vicinity have recently changed owners at prices around \$90 to \$100 per acre. Market quotations as follows: Wheat, \$1; corn, 63c; oats, 41c; beans, \$2.10; potatoes, 20@36c; wool, 22c; eggs, 20c; dairy butter, 22c;

#### THE BETTER FARMING TRAIN.

During the week of June 27 to July 2, Michigan Agricultural College conducted the most successful series of railroad institutes ever held in the state. Although it was in the midst of the busy season of the farmer and the weather throughout the week was very hot and oppressive, the attendance at all points was unusually large, ranging as high as 450 at Whittemore and Rose City, with 1,000 at the evening session at Cheboygan. Governor Warner was with the train four days, speaking at each place on "The Dairy Interests of Michigan," and much interest was taken in the addresses by Prof. C. B. Smith and Prof. J. C. McDowell, upon problems relating to the handling of the lighter soils of northern Michigan and the growing of such the subduing of quack grass was also a topic that received considerable attention. Colon C. Lillie, State Dairy and Food Commissioner, was aboard for two days and urged the farmers to give more attention to dairying and to keep cows of the dairy breeds.

From the Agricultural College the speakers were Prof. V. M. Shoesmith, who talked upon alfalfa culture: Prof. H. L. Kempster, who discussed "The Care of Poultry," and advised the keeping of sheep on the new lands of northern Michigan and gave the characteristics desired in sheep for that section; and Prof. W. B. Liverance, who urged farmers to use the Babcock test to weed out unprofitable

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

#### THE JULY PROGRAMS.

probable, a law providing for the establishment of postal savings banks was passed by the congress which closed its labors late last month. The law referred to, and which marks the end of nearly thirty years of agitation on the part of the Granges and of the farmers general; throughout the states, present of the Granges and of the farmers general; throughout the states, present of the Granges and of the farmers general; throughout the states, present of the Granges and of the farmers general; throughout the states, present of the postmaster general, the secretary of the postmaster general, the secretary of the depositories and of their funds. The provisions of the law as formed to the postmaster general, the secretary of the depositories and of their funds. The provisions of the law as formed to the secretary of the depositories and of their funds. The provisions of the law as formed to the secretary of the depositories and of their funds. The provisions of the law as formed to the secretary of the depositors of the secretary of the depositor of the secretary of the depositor of the secretary o passed by the congress which closed its

of a Man." He spoke of the responsibility of a parent to the child, not only in providing for temporal needs but the duty of setting an example in all things that could be safely followed. The young man, he said, is largely responsible for his future. The habits he forms while young will tend, in a great degree, to influence his whole life. He may form habits of cleanliness, of telling the truth, of industry and temperance, or he may contract the tobacco habit, the liquor habit, the lying and the shiftless habits and pay a bitter and costly penalty lat-

Suggestions for Second Meeting.

"It is one thing to indulge in playful rest, and another to be devoted to the pursuit of pleasure."—Ruskin.

Roll call, responded to by each naming the grandest sight he ever saw.

Humorous recitation.

Select reading, "In the fields with God."

"Summer plans for recreation," general discussion led by the Lecturer.

Select reading, "The Hope Farm man on playing ball."

"Picnic Lunches," a short paper or talk.

Surprise feature, music throughout the program furnished by "The Zobo Band."

POSTAL SAVINGS BANKS A REALITY.

Nearly three years have elapsed since National Master Bachelder, at the annual meeting of the National Grange, at Hartford, announced that Postmaster General Meyer would recommend, to the congress then about to convene, the establishment of postal savings banks, and that, in his judgment, the long battite which had been waged by the Grange was nearing a successful issue. Since that time the pressure of public sentiment, due largely to the well organized efforts of the Grange, has been steady and strong, and while the enactment of this much desired and long sought legislation was delayed, longer than then seemed probable, a law providing for the establishment of postal savings banks was passed by the congress wilich closed its probable, at law providing for the establishment of postal savings banks was passed by the congress wilich closed its probable, at law providing for the establishment of postal savings banks was passed by the congress wilich closed its propagation of the Grange and the thing the shift time to build a silo your self. He said:

If you haven't time to build a silo your all time the past estable was sure to make the silo, but you can build as lich sale was sure to make the silo, but you can build as lich sale was sure to make the silo, but you can build as lich sale was sure to make the silo, but you can build as lich sale was sure to make the silo,

Brintnall, Sec.

Minard Grange.—A Grange of 43 members was organized by Deputy Wilde at Minard, Jackson Co., Friday evening, June 24. The officers are as follows: Master, Arthur Lincoln; overseer, J. B. Strong; lecturer, James C. Thomson; steward, Homer Vedder; ass't steward, Ossie McArthur; lady ass't steward, Floy McArthur; chaplin, Emma Vedder; treasurer, Fred Whitmore; secretary, R. Z. Reardon; gate keeper, John Elder; Ceres, Mary Cheetham; Pomona, Hattie McCrum; Flora, Flossie Peterson.

The writer had knowledge in years gone by, and unfortunately in each case there is nothing to replace them which will inure a similar benefit to the younger generation of young people. True, the Farmers' Club has taken the place of these earlier organizations in many communities, but the Farmers' Club has not proven as attractive a medium for the young people for obvious reasons.

Is there not in this a suggestion which might be profitably followed out to a

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

President—B. A. Holden, Wixom. Vice-president—Mrs. C. A. Mathews,

Secretary-Mrs. C. B. Johnson, Meta-

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

#### 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.

#### CLUB PICNICS.

The Highland and Hartland and the Hartland Farmers' Clubs, of Oakland and Livingston counties, will unite in a basket picnic on the shores of Maxfield Lake, in Hartland township, Livingston county, on the last Saturday in July.

#### THE DEBATING CLUB.

of the prosperous rural sections of Michthe old members of the organization, most portance as well as in their local com-munity. Among those who participated Travis, August 6. in the debate were two members of the legislature, two ex-presidents of the Michigan State Association of Farmers' Clubs and two who have served in the capacity of directors of the same organization, while all of the others have attained distinction in private and semipublic capacities.

So enjoyable and profitable was this meeting to those who participated in it, that it was decided to effect a permanent a similar annual re-union of the old members each year. There are, no doubt, other organizations of a similar kind which might as profitably emulate the example of this club. The writer was a member of a similar organization which developed a number of young men who achieved honor in public service in similar capacities, and which did not a little to make the Farmers' Club which now exists in that community a permanent success by the taste and faculty for debate which was instilled into the young people of that community through its interesting and profitable meetings. But, like the West Novi Debating Club, it no longer exists as an active organization. In fact, it has pased out of existence altogether, except in the memories of its old members who profited to such a degree by the training and experience gained in its meetings. The same is true of a number of similar societies of which the writer had knowledge in years gone

logical conclusion by the leaders in Club work in every community? Would it not be entirely practicable and feasible to promote the organization of debating societies as subsidiary organizations to the Farmers' Clubs, in which the young people might be interested to their great benefit, and thus prepare them to be more interested and active members of the parent organization in future years?

We believe that the plan is well worthy of a trial. The cost would be nothing more than a little effort on the part of a few persons in each Club community, who would get more than enough pleasure from the meetings of the debating Club to more than repay them for their trouble, to say nothing of the benefit which they would be doing to the young people of the community. Club members, think over this plan during the summer months and be prepared to suggest to the young people of your community a plan for conducting a successful debating society next winter. The long winter evenings could not be better employed, and the young people of the community had far better get together for some useful purpose of this kind than as a mere pastime, for get together for mutual enjoyment they will in any event.

We hope that this plan may be tried out in more than one Club community during the coming year. Take it up in the Club meeting and get the young people interested in making definite plans to that end.

#### CLUB DISCUSSIONS.

Discuss Single Tax .- A most enjoyable occasion and delightful suroundings, was the unanimous verdict of the large company present at the last meeting of the Hartland Farmers' Club, recently held at the very pleasant home of Mr. and Mrs. There was held in June, a reunion of Vescelius. All were heartily welcomed debating club which flourished in one by our genial entertainers and considered of the prosperous rural sections of Michthemselves fortunate to be there. After igan a few years ago. This reunion was a most bountiful chicken-pie dinner, to igan a few years ago. This reunion was a most lead at the country school house, where which all did ample justice, the present the society met and flourished in former called the meeting to order and a very the society met and flourished in former called the meeting to order and a very good program was eagerly listened to. which were well rendered, and an honor of whom are no longer residents of the to their parents. The question box concommunity, while other participants in tributed its full share of interest to the the program as well as the audience were occasion. The best of the wine came at former members of the organization who the close of this feast of good things; as had many times participated in its meet- James Green, former prosecuting attorings. This organization, the West Novi ney, gave us a most sensible and con-Debating Club, organized in 1868 and for vincing talk on "Single Taxation," which many years the oldest in point of years and was a credit to the speaker and a subthe most famous literary society in Oak- ject of vital importance to the encumbered land county, was blessed with many able farmer. The Highland and Hartland Club members. Or shall we rather say it extended a cordial invitation to our Club aided in the development of its members to join with them in a picnic at Maxin a manner which made many of them fields Lake the last Saturday in July, prominent factors in affairs of state im- which was accepted. The Club then adjourned to meet with Mr. and Mrs. Frank

#### ENORMOUS SALARIES PAID TO FAMOUS SINGERS.

Singers of such renown as Caruso, Melba, Tetrazzini and several other famous opera stars, receive more money for a single performance than many doctors, lawyers or business men make in a year.

Even the lesser lights in the world of music receive handsome salaries; there is organization for the purpose of holding hardly a singer cast for the smaller roles, in either the Metropolitan or the Manhattan opera forces, who receives less than five or six hundred dollars a performance.

> Despite the exorbitant prices charged for admission to these performances, which the tremendous cost of production makes necessary, the demand for seats is often so great that hundreds of people are turned away.

> Until the wonderful phonograph was perfected and the services of these great artists were secured to sing exclusively for making records, it was impossible for the great majority of music lovers ever to hear these famous singers.

> But with the wonderful growth and the development of the modern phonograph, the spread of good music, especially in agricultural communities, has been re-markable. Today the sons and daughters of the farmer can often talk with more intelligence and familiarity upon a noted singer's rendering of an opera aria, and the range and quality of his voice, than their city cousins who proudly profess to be constant opera goers.

Nothing shows so plainly the steady trend of farm life toward culture, refinement and happiness in the home than the number of phonographs which are to be found on the farm.

In the farmers' homes where a phonograph is to be found, there is no such thing as dull nights or lack of appreciative company. Whatever the whim of the moment happens to be, the machine can satisfy it, band, orchestra, choir, humorous songs and stories in abundance, sweet love songs and plaintive ballads; sacred, holy hymns if you wish, or the classical arias from immortal operas. Whatever you desire is at your command from the best artists in the world.

# **MARKETS**

DETROIT WHOLESALE MARKETS.

July 6, 1910.

Grains and Seeds.

Wheat.—The market has strengthened since last week, with the improvement widest in futures. The cash deal is almost lost sight of in the activity of September and December deals. Dry weather in wheat sections is responsible for a large part of the strength which the market is showing. For a long time the plants have been suffering for moisture and now the injury is being impressed upon the minds of those interested and to date no rains of importance are reported to help out the crop. Abroad the trade is following the prices here, instead of leading them. No new wheat is being delivered in the southwest where threshing is in progress. The receipts of old grain in the northwest is quite liberal but the supplies are being cut down. The visible supply shows a substantial decrease. One year ago the price for No. 3 red wheat was \$1.40 per bushel. Quotations for the week are:

No. 2 No. 1

Red. White. Sept. Dec. Thursday ...1.03 1.03 1.0014 1.0216

Friday ...1.03 1.03 1.0014 1.0216 Grains and Seeds.

Red. White. Sept. Dec.
Thursday 1.03 1.03 1.004 1.02½
Friday 1.03 1.03 1.01 1.03
Saturday 1.03 1.03 1.01 1.03
Monday 1.03 1.04 1.03½
Corn.—The strength of the wheat situation, the poor hay outlook and the driedup pastures are lending their influence to put up and keep up corn values: The crop itself apears to be coming along well considering the disadvantage of the cold spring and the late planting. Trading is not active. Visible supply is small and has decreased but a few thousand bushels for the week. One year ago we were paying, upon this market, 73½c per bu. Quotations for the past week are:

No. 2 No. 3
Mixed. Yellow.
Thursday 62½ 63¾

Thursday 62½

62½

63½

64½

| Standard. | Thursday | 40½ | Friday | 40½ | Saturday | 50% | Saturday |

		Spot.	OCT.
	Thursday	.\$7.00	\$6.75
	Friday	7.00	6.70
	Saturday	. 7.00	6.70
	Monday		
K	Tuesday	. 7.00	6.70
	Rye.—There is nothing	doing in	rye.
	The nominal quotation is	78c per	bu.,

Wheat	1									3								12,034,000	13,141,00
Corn																		5,224,000	5,614,00
Dats					į,													4,245,000	4,792,00
Rye .																		378,000	406,000
Barley	•									ŕ								1,443,000	1,448,000
	F	=	lo	o	ul	r,		1	F	e	e	C	١,		F	0	r	ovisions,	Etc.
Flou	r		X	-	N	10	)		f	ι	11	t	ŀ	16	2)	r		advance	has beer
made	0	1	n	h		+	h	16	4		n	1:	9	7	k	6	1	is firm	at former

10c; No. 1 green veal kip, 8c; No. 1 cured calf, 14c; No. 2 kip and calf, 12½c; No. 1 horsehides, \$2.50; No. 2 horsehides, \$2.50; sheepskins, as to amount of wool, 20@60c.

Dalry and Poultry Products.

Butter.—While the production of butter has been increasing rapidly a strong demand from different sources has kept up values and at the same time prevented the trade from becoming draggy. On this market prices are the same as a week ago except for dairy which is 1c higher. Quotations are: Extra creamery, 27½c; firsts, do., 26½c; dairy, 23c; packing stock, 21c per lb.

Eggs.—Just one cent has been taken from last week's price for eggs. The market is receiving a liberal supply and the demand is fair. Fresh eggs, case count, cases included, are quoted at 17½c per dozen.

Poultry.—Because of the small number of offerings, the poultry market is firm and values are up a little from last week's

Poultry.—Because of the small number of offerings, the poultry market is firm and values are up a little from last week for hens and broilers. The quotations on live are: Broilers, 26@28c; chickens, 15% 15½c; hens, 15@15½c; old roosters and stags, 12c; ducks, 15c; geese, 11@13c; turkeys, 16@16½c per lb.

Cheese.—Michigan, late made, 15c; Michigan, fall made, 17½@18c; York state, 18@18½c; limburger, old, 17@18c; Swiss, demestic block, 23@24c; cream brick, 16@16½c

Calves.—Steady. Choice to fancy, 11@

dome. 16@16½c Calves.-'4c; or

domestic block, 23@24c; cream brick, 16@16½c
Calves.—Steady. Choice to fancy, 11@11½c; ordinary, 10½c.
Fruits and Vegetables.
Apples.—Apples are not having a large market. Steele Red are quoted at \$6.50@7 per bbl.
Cabbage.—Steady. Selling at \$1.25@1.75 per crate for new.
Strawberries.—Crop is about all harvested. Michigan fruit quoted at \$2.25@2.50 per bu.
Raspberries.—Offerings are increasing. Crop is not large. Reds are quoted at \$2.25 per 24-pt. case; blacks, \$4.25 per bu.
Blackberries.—Market steady. Offerings few. Selling at \$4.25 per 24-pt. case.
Huckleberries.—Outled at \$2.25@2 per 24-pt. case.

qt. case. Gooseberries.—Quoted at \$2.25@3 per

Mixed. Yellow.

62'4 63'4

Saturday 62'4 64'4

Saturday 62'4 64'4

Monday 62'4 64'4

Monday 63' 64'2

Oats.—Oats are not selling as high as a week ago. Crop conditions are quite promising in Michgan with the exception of some sections where moisture is wanted. The trade is not active and the stocks in elevators are low. September oats are up from the price paid last Saturday. One year ago the value of No. 3 oats on this market was 54c per bu.

Standard.

Mixed. Yellow.

Gooseberries.—Quoted at \$2.25@3 per bushel.

Gouseberries.—Rather scarce but lower than a week ago. Now selling at \$3 per bushel.

Yegetables.—Beets, 25c per doz; carrots, 25c per doz; carrots, 25c per doz; eggplant, \$1.25@1.50 per doz; some sections where moisture is wanted. The trade is not active and the stocks in elevators are low. September oats are up from the price paid last Saturday. One year ago the value of No. 3 oats on this market was 54c per bu. Quotations for the week are:

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Yegetables.—Beets, 25c per doz; carrots, 25c per doz; carrots, 25c per doz; segplant, \$1.25@1.50 per doz; sucumbers, 50@60c per doz; sper doz; sper doz; spinach, 65c per bus; turnips, 40c per doz; watercress, 20@25c per doz; watercress, 20@25c per doz; watercress, 20@25c per doz; spinach, 65c per bu; turnips, 40c per doz; spinach, 65c per bu; per doz; watercress, 20@25c per doz; watercress, 20@25c per doz; watercress, 20@25c per doz; spinach, 65c per bu; turnips, 40c per doz; watercress, 20@25c per d

#### OTHER MARKETS.

#### Grand Rapids.

Grand Rapids.

Live poultry, delivered, are bringing the folowing prices: Fowls, 12½c; broilers, 20c; ducks, 12c; turkeys, 12c; old roosters, 8c; geese, 7c. Dressed hogs are firm at 11@11½c. Hot weather and a poorer quality of butter has weakened the dairy butter market, the price paid ranging from 21@22c. Creamery butter is worth 27½c. Grain prices are steady, wheat around the dollar mark. White pea beans are quoted on a \$2 basis for hand picked, while red kidneys are very scarce and are easily worth \$3. Strawberries are practically out of the market. Red raspberries brought an average of \$1.70 on Tuesday's market, while cheries sold at \$2.50 per bushel.

kidneys, \$2.75@3 per bu.

Feed.—Prices are steady. Carlot prices on track: Bran, \$25 per ton; coarse middlings, \$26; fine middlings, \$28; cracked corn, \$27; coarse corn meal, \$27; corn and bat chop, \$24 per ton.

Potatoes.—The calls for old potatoes are last diminishing with the improvement in the quality and quantity of the new crop. Old stock is quoted at 20@25c per bu. for car lots and 25@30c in store lots. New potatoes are \$2@2.50 per bbl!

Provisions.—Mess pork. \$25; family pork, \$26; medium clear, \$25@26; smoked shams, 19½c; car salted briskets, 16½c; bodd shoulders, 15c; picnic hams, 14½c; bacon, 13c; lard in tierces, 13½c; kettle rendered, shoulders, 15c; picnic hams, 14½c; bacon, 13c; lard in tierces, 13½c; kettle rendered, shoulders, 15c; picnic hams, 14½c; bacon, 13c; lard in tierces, 13½c; kettle rendered, shoulders, 15c; picnic hams, 14½c; bacon, 13c; lard in tierces, 13½c; kettle rendered, shoulders, 15c; picnic hams, 14½c; bacon, 13c; lard in tierces, 13½c; kettle rendered, shoulders, 15c; picnic hams, 14½c; bacon, 13c; lard in tierces, 13½c; kettle rendered, shoulders, 15c; picnic hams, 14½c; bacon, 13c; lard in tierces, 13½c; kettle rendered, shoulders, 15c; picnic hams, 14½c; bacon, 13c; lard in tierces, 13½c; kettle rendered, shoulders, 15c; picnic hams, 14½c; bacon, 13c; lard in tierces, 13½c; kettle rendered, shoulders, 15c; picnic hams, 14½c; bacon, 13c; lard in tierces, 13½c; kettle rendered, shoulders, 15c; picnic hams, 14½c; bacon, 13c; lard in tierces, 13½c; kettle rendered, shoulders, 15c; picnic hams, 14½c; bacon, 13c; lard in tierces, 13½c; kettle rendered, shoulders, 15c; picnic hams, 14½c; bacon, 13c; lard in tierces, 13½c; kettle rendered, shoulders, 15c; picnic hams, 14½c; bacon, 13c; lard in tierces, 13½c; kettle rendered, shoulders, 15c; picnic hams, 14½c; bacon, 13c; lard in tierces, 13½c; kettle rendered, shoulders, 15c; picnic hams, 14½c; bacon, 13c; lard in tierces, 13½c; kettle rendered, shoulders, 15c; picnic hams, 14½c; bacon, 13c; lard in tierces, 13½c; kettle rendered

Beans—The nominal prices of the body far bears at little lower than those of last effect to the proving crop. Menting of the trade is of the growing crop. Menting of the trade is of the growing crop. Menting of the trade is of the growing crop. Menting of the trade is of the growing crop. Menting of the trade is of the growing crop. Menting of the trade is of the growing crop. Menting of the trade is of the growing crop. Menting of the trade is of the growing crop. Menting of the trade is of the growing crop. Menting of the trade is of the growing crop. Menting of the trade is of the growing of society of the season, and sold to feeders at \$5.10\(\tilde{\pi}\)5.40, their average weights ranging from 975 lbs. to 1.063 lbs. Stockers and feeders had a rather larger sale, as was natural after their recent great slump in prices, and the choicer lots were higher under limited offerings. Stockers sold at \$3.10\text{(4.90)} and feeders at \$4.60\text{(9.65)} \text{(5.55)}. Milkers and springers were in moderate supply and in poor demand at \$25\text{(9.55)} per head. About 43.400 cattle were received last week, compared with 58.859 a week earlier and 43.391 a year ago. Late prices for fat cattle were some higher than a week earlier.

week earlier.

Hogs showed a rather firm undertone for the choicer consignments much of the time, but getting advances last week was more difficult than usual, as purchases by eastern shippers were lowered to ex-

d quite as good waiters and the buyers for they are still of a mind that better values should be paid. Some Ohio quarter bloods a good sized blook of \$7, blood went of a good sized blook of \$7, blood went of a good sized blook of \$7, blood went of the recent receipts having average of the country everything is quite and there is a large bulk of the fleeces to move out of the growers' hands yet. 222 lbs. a year ago, 216 lbs. two years and there is a large bulk of the fleeces to move out of the growers' hands yet. 222 lbs. a year ago, 216 lbs. two years and there is a large bulk of the fleeces to move out of the growers' hands yet. 222 lbs. a year ago, 216 lbs. two years and there is a large bulk of the fleeces to move out of the growers' hands yet. 222 lbs. a year ago, 216 lbs. two years and there is a large bulk of the fleeces to move out of the growers' hands yet. 222 lbs. a year ago, 216 lbs. two years and the proportions. 222 lbs. a year ago, 216 lbs. two years and the proportions of the year of the proportions of the pr

#### LIVE STOCK NOTES.

Louis Penwell of the Montana Wool Growers' Association says: "We are consigning our clips to the Chicago warehouse. There is no reason why growers should not get as much for their wool as last year. If everybody refuses to accept current bids we will ultimately secure fair prices. In Montana dealers are offering 18 to 18½ cents for clips they bought freely at 21 to 25 cents a year ago."

Reports come from various parts of the corn belt states that spring pigs may be expected to show up in the markets of the country some six weeks earlier than usual, and pigs that would ordinarily not be shipped until November and December and October. Usually March pigs are born at a period when climatic conditions are extremely unfavorable, and many succumb to cold, wet weather, but this year usual conditions were completely reversed, and March was warm and pleasant, while April and May were cold and wet. The March pigs have had the very best of care, farmers realizing fully their unusual value at a time when hoga are such valuable property on the farm, and plenty of corn has been fed to them. As a general rule farmers bred far more sow gilts than usual, as high prices had induced them to part with their matured brood sows, and hence average litters were considerably smaller than in most years.

Woolen manufacturers are endeavoring to get sheenmen to sell their wool to

were considerably smaller than in most years.

Woolen manufacturers are endeavoring to get sheepmen to sell their wool to them direct and are offering liberal advances on the wool at 6 per cent and offer to furnish sacks free of charge.

About 100,000 Mexican cattle were imported into the United States during the first five months of this year, the duty amounting to about \$350,000. Most of these earths were ferrometed.

these cattle were forwarded to Montana, North Dakota, South Dakota, Wyoming and Colorado to be matured, and two years hence they will be marketed as beef cattle.

years hence they will be marketed as beer cattle.

Dairymen have not been in the market for cows during the recent hot spell of weather, and as shippers had some cows die while in transit, they are slower to make shipments of milkers and springers. Supplies on the Chicago market have undergone a great falling off, but the reduction in the demand has been even larger, and prices are materially lower than several weeks ago, when there was a good trade.

Wyoming sheepmen complain that wool buyers will not even make any offer. A year ago buyers were traveling all over the west and buying up wool eagerly, but now they show perfect indifference as a rule, and when sales are made prices are several cents lower than last year.

#### THIS IS THE LAST EDITION.

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

#### DETROIT LIVE STOCK MARKETS.

Thursday's Market.
July 7, 1910.

Receipts, 653. Market strong at Wednesday's prices; 25@50c higher than last

week. We quote: Extra dry-fed steers and heifers, \$7.50; steers and heifers, 1,000 to 1,200, \$6.06.25; steers and heifers, 800 to 1,000, \$5.25.66; grass steers and heifers that are fat, 800 to 1,000, \$4.50.05.50; grass steers and heifers that are fat, 500 to 700, \$4.60.05; choice fat cows, \$4.50.04.75; good fat cows, \$3.75.04.25; common cows, \$3.00, canners, \$2.75.03; choice heavy bulls, \$4.50.04.75; fair to good holograps, bulls, 3.50; canners, \$2.75@3; choice heavy bulls, \$4.50@4.75; fair to good bolognas, bulls, \$3.75@4.25; stock bulls, \$3.50@4; choice feeding steers, 800 to 1,000, \$4.75@5; fair feeding steers, 800 to 1,000, \$4.25@4.50; choice stockers, 500 to 700, \$4.25@4.50; choice stockers, 500 to 700, \$4.25@4.75; fair stockers, 500 to 700, \$3.50@4; stock helfers, \$3.25@3.75; milkers, large, young medium age, \$40@50; common milkers, \$25@35.

Bishon B. & H. sold Mich, B. Co. 9

ers, \$3.25@3.75; milkers, large, young medium age, \$40@50; common milkers, \$25@35.

Bishop, B. & H. sold Mich, B. Co. 9 steers av 995 at \$6.25, 12 do av 835 at \$5.25, 6 cows av 1,025 at \$4.25; to Thompson Bros. 2 cows av 980 at \$3.50; to Goose 18 butchers av 780 at \$4.75; to Kamman B. Co. 4 do av 712 at \$4.75; to Kamman B. Co. 4 do av 712 at \$4.23 do av 735 at \$5; to Bresnahan II stockers av 650 at \$4.10; to Sullivan P. Co. 5 cows av 972 at \$4.1 do weighing 840 at \$3.25, 23 do av 970 at \$4.50, 4 do av 1,017 at \$3.50, 2 bulls av 1,175 at \$4.25, 2 do av 785 at \$4.60; to Mich. B. Co. 5 steers av 800 at \$5.15; to Erban Bros. 6 do av 583 at \$4.50; to LaBoe 23 butchers av 755 at \$4.75; to Lachalt 9 do av 711 at \$4.60; to Mich. B. Co. 5 steers av 920 at \$4.75; to Laboe 23 butchers av 755 at \$4.75; to Kamman II steers av 755 at \$4.50, 1 cow weighing 1,190 at \$3.50, 2 bulls av 865 at \$4; to Regan 6 butchers av 600 at \$4.75; to Kamman II steers av 715 at \$5.20, 10 butchers av 750 at \$4.50, 1 cow weighing 1,190 at \$3.50, 2 do av 890 at \$3.75; to Newton B. Co. 10 steers av 1.063 at \$6.35, 15 do av 850 at \$5.50 at \$80 at \$5.50, 18 do av 995 at \$6.35, 1 do weighing 1,000 at \$2.50, 1 do weighing 1,000 at \$2.50, 1 do weighing 1,000 at \$5.55, 5 cows av 950 at \$4.25.

Roe Com. Co. sold Smith 2 stockers av 715 at \$4.50, 2 cow \$20 at \$4.55, 5 cows av 950 at \$4.25.

Roe Com. Co. sold Smith 2 stockers av 715 at \$4.50, 2 do av 890 at \$3.55, to Sullivan P. Co. 7 butchers av 715 at \$4.50, 2 do av 890 at \$4.55, 5 cows av 950 at \$4.25.

Roe Com. Co. sold Smith 2 stockers av 715 at \$4.50, 2 do av 890 at \$3.50, 5 cows av 950 at \$4.25.

Roe Com. Co. sold Smith 2 stockers av 715 at \$4.50, 2 do av 690 at \$3.85, 1 bull weighing 1,050 at \$4.25, 15 heifers av 780 at \$4.50, 2 do av 690 at \$3.85, 1 bull weighing 1,050 at \$4.25, 15 heifers av 780 at \$4.50, 1 do weighing 780 at \$4.50, 1 do weighing 780 at \$4.60; to Mich. B. Co. 12 do av 712 at \$4.60; to Mich. B. Co. 12 do av 712 at \$4.60; to Mich. B. Co. 12 do av 722 at \$4.60; to Mich. B. Co. 8 cows

\$3.60.

Spicer & R. sold Mich. B. Co. 8 cows av 791 at \$4.50, 1 do weighing 780 at \$3.50, 8 do av 720 at \$4.50, 3 do av 943 at \$3.50, 6 do av 1,008 at \$4.50, 2 do av 965 at \$3.25, 1 do weighing 980 at \$3.50, 6 steers av 816 at \$5.10, 1 bull weighing 830 at \$4, 2 do av 910 at \$4, 4 butchers av 675 at \$4.75; to Fronn 9 do av 568 at \$3.25; to Goose 3 cows av 810 at \$3.25; to Starrs 1 do weighing 830 at \$3.75; to Sullivan P. Co. 1 bull weighing 1,080 at \$4.25, 3 do av 530 at \$4, 2 do av 455 at \$3.50; to Schlischer 5 butchers av 650 at \$4.80, 7 do av 600 at \$4.50; 2 do av 565 at \$4.50; to Hammond, S. & Co. 1 bull weighing 850 at \$4, 12 steers av 830 at \$5.50, 1 cow weighing 1,200 at \$4.50, 3 do av 923 at \$4.50.

\$9.35.

Haley & M. sold Parker, W. & Co. 20 av 200 at \$9.30, 39 av 200 at \$9.35, 84 av 170 at \$9.40.

Spicer & R. sold same 125 av 190 at \$9.40, 30 av 200 at \$9.35, 7 av 260 at \$9.30.

Sundry shippers sold same 255 av 200 at \$9.35.

Roe Com. Co. sold Sulliyan P. Co. 206 av 170 at \$9.40.

Sundry shippers sold same 200 av 180.

Sundry shippers sold same 200 av 180 at \$9.40.

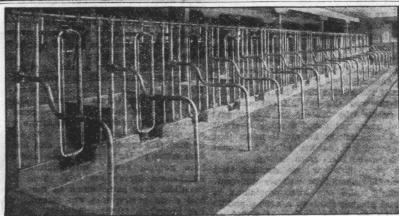
#### VETERINARY.

(Continued from page 24).

Co. 1 bull weighing 1,080 at \$4.25, 3 do av 530 at \$4.2 do av 460 at \$4.50, 2 do av 455 at \$3.50; to Schlischer 5 butchers av 650 at \$4.50, 7 do av 600 at \$4.50, 2 do av 555 at \$4.50; to Hammond, S. & Co. 1 bull weighing 550 at \$4, 12 steers av 530 at \$5.50, 1 cow weighing 1,200 at \$4.50, 3 do av 923 at \$4.50.

Haiey & M. sold Sullivan P. Co. 1 cow weighing 920 at \$3.75, 2 do av 1,25 at \$4.1 do av 923 at \$3.75, 2 do av 1,25 at \$4.1 do av 1,055 at \$4.25, 1 do weighing 520 at \$3.75, 2 house 1,055 at \$4.25, 1 do weighing 520 at \$4.50, 3 do av 1,055 at \$4.50, 3 do av 1,055 at \$4.50, 1 do weighing 520 at \$4.50, 1 bull weighing 580 at \$4.50, 1 do weighing 580 at \$4.50, 1 do weighing 580 at \$4.50, 1 do weighing 580 at \$4.50, 2 do av 1,25 at \$4.50, 2 bull so at \$4.50, 2 do av 1,65 at \$4.50, 2 bull so at \$4.50,

Signo to Brettenback Bress. 4 av 205 at also troubled with knuckling. Two weeks the state of the



INTERIOR OF DAIRY BARN AT MICHIGAN AGRICULTURAL COLLEGE, EAST LANSING, MICH

A. C. ANDERSON'S LETTER.

East Lansing, Mich. March 24th, 1910.

Kent Manufacturing Co., Fort Atkinson, Wis.:

Gentlemen:—The James Sanitary Cow Stalls which we purchased from you last spring have been satisfactory. They enable us to keep our barn cleaner and are labor savers as well as conveniences. Yours very truly.

A. C. ANDERSON, Professor of Animal Husbandry.

In these days of progress of agricultural education the great state schools and experiment stations are looked up to as authority in methods and equipment in farming and animal husbandry. Everything is done not only to instruct the farmers and dairymen in the various lines of production, but to demonstrate in actual use the desirability of improved apparatus. The James equipment appeals to the best practice in dairying; because it meets fully the modern requirements of sanitation, cleanliness, cow comfort, and consequent increased production and improved quality of products. No dairyman, even though he has but a few cows, should neglect to secure the very best. The item of labor saving alone will pay for the complete James equipment in one year and the increased product will stand for clear profit, above cost. Write for complete catalog and particulars to KENT MFG. CO., 131 Cane St., Ft. Atkinson, Wisconsin.

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Scolla Silo

# HOME AND YOUTH

THE OLD WATERMILL.

BY ALONZO RICE.

'Neath shadows of yon vine-clad ledge The old-time watermill, aloof From dreary wastes of sand and sedge, Leans, with its broken roof.

The barren rafters lift on high Their signals of distress, and dark They gleam against the summer sky, Lone, featureless and stark.

Half-open swings the creaking door; But beams of morning, fair and sweet, Across the threshold bring no more The sound of hurrying feet.

Above where worn and lichened eaves Filter the sunshine and the rain, In tireless mood, the spider weaves His radiating skein.

The leaves of many autumns sleep, Winnowed about the dusty floor; Winds of each wild November reap And garner to the store.

The race that lent the full supply Of water to the busy wheel, Is but a pool where rushes sigh, And frogs their chorus peal.

Tall trees their glossy banners flaunt Above the channel long run dry; And there the rain-crows hide and haunt, Sounding their boding cry,

The miller sleeps. His monument Is white as was his raiment when He left the mill at night and went Homeward along the glen.

is time in deeds that bless and cheer He made sweet service to employ; ladly each day and month and year Gave him its toll of joy.

He knew the burrs each other ground When running without corn or whe And so each day some task he found To fill the hours complete.

His round of duties like the wheel's Was daily made with little noise; The roar of towns, the heartless deals, With him found counterpoise.

And while he watched the dropping meal, And soaring swallows circling near, is cheerful song and whirring wheel His cheerful song and white Made music sweet to hear.

The happy voice at last grew low; And where the softest zephyr sighs, His rest, by fairest flowers that blow, The summer sanctifies.

No more the whirring water-wheel's Insistent music greets the ear; No song nor laughter upward steals When early stars appear.

But often comes to fancy's sight, At twilight, by the open door, The miller, in his vesture white, A moment—and no more!

#### BACK TO NATURE.

BY ELIZABETH L. STOCKING.

Tom and I had never spent a really soul-satisfying vacation. We had generally sought a quiet (?) hotel in some secluded spot where there was good fishing and boating, but somehow we seemed never able really to get "back to nature," and lead the simple life. No matter how out-of-the-way the hotel, there were always people who dressed for dinner, and we had never yet found a place where it seemed unnecessary for me to insist that Tom should put on his collar and coat when he came back from fishing.

This year, however, we decided that our vacation should be entirely different. We would take our own provisions, a down the Au Sable river. At night we would pitch our tent and make a camp-We would live like free children of

How we dreamed of the days we would spend gently drifting down the stream, Tom lazily plying an occasional paddle, while I rested among the cushions drinking in the beauties of nature or reading aloud from one of our favorite poets.

Consequently, on a warm afternoon in August, we found ourselves in a queer little lumber town near the source of the Au Sable, with our canoe, tent, and provisions. We bought some vegetables at brigandish prices, and hired a man to help us pack our "duffel" into the canoe The men were despe and get started.

I think a large portion of the inhabitants of the town came down to the river to see us off. Among them was a stately old Indian wearing a silk plug hat, his breast covered with medals and badges. One man told us that he was the chief of all the Indians left in that part of the state.

The Au Sable proved to be a narrow, rapid stream. Our cance was loaded heavily, and when we were fairly launched it rocked so that I cried, "O, Tom, I'm frightened!"

hair in the middle this morning," explained Tom with provoking calmness.

men on the shore.

THE MICHIGAN FARMER.

stream, some of them sunken below the surface, and we had to look out for them "Vell," he replied every moment. Once, indeed, we bumped dey sell for today." against one and were nearly upset. There was no quiet drifting down the stream that night, I can assure you. We both had to work all the time with the paddles town ant find out how much today." to keep the boat straight and to avoid the snags.

"This, Edith, is the simple life," remarked Tom breathlessly.

It had been almost dusk when we start-We wanted to reach our first camping-place before bedtime. on, the moon came and shone splendidly, and hundreds of fireflies made the night still more brilliant.

About nine o'clock we found a suitable My, we were tired, but camping-place. we had to put up our tent, unpack our and we were obliged to break camp and grub (that is what Tom persisted in call- go on eggless. ing it, although at the beginning of our pression), start a fire, and cook our supper.

While Tom was making the fire I went down to the river to get some water, and saw, coiled up on a rock, a big black snake-a perfect monster. I gave a yell and ran, and Tom came hurrying to see their clothes, and most of their grub. what was the matter.

"That won't hurt you, honey," he declared. "We're just getting back to nature. Weren't you talking about reaching them a can of cocoa, some camp biscuit, the garden of Eden? Well, this is it, snake and all."

"The snake is the only thing here to remind one of Eden," I retorted, rather crossly I am afraid.

O, we were hungry! I don't believe I ever before tasted anything so good as that bacon, camp biscuit and coffee. Soon after supper we rolled ourselves up in some blankets and dropped into perfect oblivion until morning. We might have been bitten by snakes or gobbled up by bears and never have known it.

The next morning, after we had eaten ungrateful wretches!" exclaimed Tom. our breakfast, with a dessert of huckleberries which grew thick all about our camp, we packed up and started onward. There was no chance for lingering, as the time for our trip was limited, and we must cover a certain distance every day.

The stream got more rapid wider, and deeper, as we went on, and the fiction of lazy drifting grew more and more remote. On one side of the river was marshland, on the other, low hills. It had been a rich lumber district, but the trees were nearly all gone. There was a growth of underbrush, poplars, scrub pine, and able, Tom managed to get into it. He some silver birches, but the stately white pines were a thing of the past. In many places were desolate tracts where the forest fires had swept.

everywhere one could see traces of its sat down in the shadow of an old boxformer prosperity. The towns were de- car to wait. Fifteen minutes passed, and populated, the farms deserted. Only a as scattered, shiftless population remained who lived on miserable little farms without enterprise enough to raise vegetables to feed the campers, fishers, and hunters who come to that region. We saw some blue herons, eagles, and watched, the kingfishers diving for fish. Two sleek, beautiful deer came down to the stream tent, and placing them in a canoe, paddle and stood gazing into the distance until engine puffing and snorting as if it were our approach frightened them and they scampered away.

Shortly after we had seen the deer we noticed a flock of ducks rising from the waved his handkerchief tied to a stick, bank of the river. We heard a shot, then and the train came to a stop. It consistanother one, and a bullet whizzed by ed of a number of truck cars loaded with

close, close to my face. logs and one passeng.
"Oh, oh!" I screamed, and Tom dropped into two compartments. his paddle and turned white at my narrow escape.

Two men came running down to the river bank. I was excited and began scolding them.

The men were desperate looking fellows, oachers undoubtedly. They just laughel, and one of them remarked: "You seem I saw the proprietor sizing us up as we to be a long way from dead yet."

dling all day and camping at night. Sometimes the mosquitoes were thick and that I blame him. Tom had on the queer swarmed about Tom while they let me severely alone. Tom smeared himself with on the front of his pants, and a cap a black "mosquito dope" which made him which had seen many tribulations, while look like a negro. If I had not seen him put it on I certainly would not have believed that he was my own husband.

We came to a little town that is twentyeight miles from a railroad. There we supper and sat at a table with quite "It's just because I forgot to part my talked with an old man who had several dressy lady and gentleman who regarded air in the middle this morning," ex- grown-up sons, none of whom had ever us with curiosity and some scorn, I

"It's shaller, lady," shouted one of the way outside of this town, and while we seen on the shore. "No danger." were there an old German came along In addition to the rapidity of the cur- with some eggs in a wagon. Being anxrent, there were a great many logs in the ious to secure some of the eggs, we inquired the price

"Vell," he replied, "I don't know what

We told him what we had paid for eggs a day or two before.

"Vell, I don't know," he said. "I go to

We argued with him, and tried to convince him that it would be to his advantage to sell them to us, even offering him more than we had paid before, but he was obdurate and insisted that he must go to town and learn the correct market price.

"I vill come back in von hour," he said. "If the people 'round here aren't the dumdest!" commented Tom, as the wagon leisurely disappeared down the road.

We waited two hours, but no German, go on eggless.

One day, when we had been traveling trip I considered it a very inelegant ex- nearly a week and were nearing the railroad which was to carry us the remainder of the way to the mouth of the river, we came up with two young men in bathingsuits floating down stream astride of logs. They had a tent on the shore, but they told us a story of having lost their canoe,

> As we were so near the end of our journey and had a lot of provisions left, we landed, unpacked our stores, and gave canned goods, and quite a number of other things.

> Packing up again we went down the river a little further and stopped at a farmhouse

> "Where's my coat?" inquired Tom. as we landed.

> We looked in the boat and finally unpacked again, but the coat was nowhere to be found. Tom remembered having it when we were talking with the young men to whom we had given the supplies.

"They must have stolen my coat, the

A pathetic little widow whose husband and one son had been killed in a lumber jam, lived in the farmhouse. She had another son with her. She did not see many people and was often lonely. seemed to think it a real treat to talk with us. We told her about the coat, and she was very sympathetic and said she would try to find something. She finally produced a coat that had belonged to her husband—a little old-fashioned pepperand-salt affair, considerably too small for Tom, but as it was the only thing availlooked so funny I could hardly keep from laughing, but we both appreciated the kind-heartedness of the widow.

We waded down a sandy road to the Altogether, it was a sad country, for track, carrying our canoe, tent, etc., and the train hadn't come, Tom said: "Suppose we read one of those books you brought. It would be too bad to carry them all the way here and back without looking into them.'

I produced "The Marble Faun," and let me tell you that we read it nearly through before that train appeared. Finally, after several hours, we heard it coming, the protesting every yard at the load it had to carry.

Tom climbed onto the box-car and logs and one passenger coach divided

"Fust or second-class?" asked the conductor.

"O, first-class," responded Tom in his most lordly manner, whereupon we were directed to one of the two compartments, "You ought to be arrested for criminal a stuffy little affair occupied by a dozen carelessness," I cried. "You came very rather rough looking men, two women, and a baby.

When we reached Au Sable, at the mouth of the river, we went to the hotel. asked for a room. Judging from the kind Well, we kept on down the river, pad- of a room he gave us. I fear his impressions were not altogether favorable. Not pepper-and-salt coat, a large berry stain I wore a suit in which I had slept some of the coldest nights, and a hat trimmed with some very sad and drooping flowers.

We went to the dining-room for our seen a railroad train. We camped a little thought. The lady wore a very handsome you are writing to advertisers.

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with Cream and Sugar.

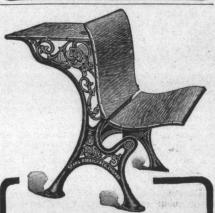
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Please mention the Michigan Farmer whe

diamond pin. Tom has kind of a weakness for jewels.

"Isn't that a beautiful diamond?" he whispered to me.

The lady must have heard, for she darted a glance of suspicion at us.

Almost directly after supper we went to our room, but such a room! There was cracked mirror, a dilapidated washstand, two or three chairs, and the legs of our bed were set in small tin cans partly filled with kerosene.

"I wonder whether that's to keep 'em in or keep 'em out," remarked Tom thoughtfully.

In a hall right next to our room a wheezy piano played until the small hours of the night and the sounds of revelry were heard. I spent the night dozing in a rocking-chair, but Tom stretched him-self on the bed and slept the sleep of the weary and the just.

We had breakfast again with the dressy lady and gentleman. I noticed that she did not have on her diamond pin.

They rose from the table at the same time as we did and, in some awkward and inexplicable manner, Tom managed to collide with the lady. Of course, he apologized, but the silent and stony stare with which she regarded us both was withering, to say the least.

An hour later we came down from our room, bag and baggage, prepared to board the Detroit boat which was to leave

in half an hour As we entered the corridor of the hotel we beheld an excited group, the center of which seemed to be our lady of the

breakfast table. "Here they are!" she declared in a loud

voice as soon as we came into view. The proprietor walked over to us and seized Tom firmly by the shoulder.

"This lady accuses you of stealing her diamond," he stated.

"Well, then, she lies!" declared Tom hotly.

"Listen to that!" cried the woman. "He purposely bumped against me in the dining-room. The diamond was in my pocket. Now it's gone."

My, Tem was mad! "I want you to understand," said he, "that I am treas-urer of the firm of Mayfield & Co., of Detroit. You can telegraph and find out all about me. This is an outrage!"

'It would be easy enough for him to give some other man's name," broke in

the woman's husband.
"And look at him!" shrilled the woman. "Does he look like the treasurer of Mayfield & Co.?"

"My good man," interposed the proprie-tor of the hotel, "unless you give up the diamond immediately it will be necessary to detain you until this afternoon when you can have a court hearing, and we have to ask this officer to do his duty," motioning to a policeman who stood near.

Tom clenched his firsts and looked defiant, and I could hardly keep from crying. Just at this crucial moment the housekeeper of the hotel appeared carrying a wastebasket in one hand and a small crumpled wad of paper in the other. Be-

hind her, looking rather frightened, came

a young woman in a white apron. "I jus' found this in the wastebasket," said the housekeeper, opening the wad of paper and revealing—the diamond pin. "Bein' a honest woman, I brought it to you," handing it to the proprietor. chambermaid must have throwed it in the basket by mistake."

"I thought it was just a piece of crumpled paper lying on the dresser," explained the girl.

"It's mine-my lost diamond," cried the dressy woman. "I thought I put it in my pocket. I must have left it on the dresser. "Well, I'm sorry I accused you, sir, but I thought by your appearance-

"You can't always tell by the looks of a toad, Marie, how far he will jump," interrupted her husband with a loud but somewhat embarrassed laugh.

"No," said Tom, looking like a thunder-cloud, "that's what I've just been finding out."

An hour later, Tom and I were sitting in a secluded corner of the Detroit steamer, hoping that neither friend nor foe would spy us.

"What a restful vacation we've had, Tom!" I remarked, with a bit of wicked sarcasm, I fear.

"This has been a fine trip, Edith," declared Tom. "We've got back to nature at last. We've found out how the pioneers roughed it. We've had experiences and adventures. I feel just bully. I want to go again next year."

But I didn't feel quite so sure that I

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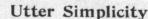
#### Other Economies

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The Overland has fewer parts than any other automobile. All the complexities have been eliminated. The car almost cares for itself.

Many owners write of running it thousands of miles without even cleaning a spark plug.

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Overlands are used in the U.S. Mail service because of their proved reliability. Each car does the work of three horse-drawn vehicles.

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### WOMAN AND HER NEEDS

### A LITTLE TALK ON FLETCHERISM.

#### Its Rules and Claimed Results.

waddled out the front door.

laugh was on the first speaker.

himself an old man; refused by life insur- flesh, then eat it. ance companies as a "bad risk;" weighing in a normally healthy condition. He im- sen, and think only cheerful thoughts mediately set about trying to find out while eating. what is the natural way of eating, and having experimented on himself until re- can work such wonders in health as the for a flat skull, square turned health, strength and vigor showed Fletcherites claim for it. Yet Mr. Fletchhim he was right, he began preaching his er has reduced his weight by it from 217 doctrine to others. His principles he has pounds to 170; has increased his powers reduced to five simple rules.

Wait for a real appetite.

appetite, not something suggested to you spin of 50 miles before breakfost, and has carriage, and a solid by someone else.

the food by thorough mastication and in- of any sort. salivation. If the food is a liquid, sip it slowly and hold in the mouth to get the itself."

gloomy thoughts keep you from getting poisons. all the good there is out of the process of eating.

eat three times a day just because the cranky, disagreeable folks in the nation owned now by H. E. Dodge. He showed meals are there. Eat only when hungry are made so by the way we Americans first at Erie where he went through his with a true, earned appetite, not the bolt our food. We are always in a hurry classes undefeated. In six months after backs. A bride's cake containing a ring gnawing hunger of indigestion.

two meals a day, sometimes only one, a full half hour at meal time. Forget his puppies are said to be marvelous. He does not advise others to follow his work, worry, business, care of all sorts, The dogs are fed plenty of meat a example because he finds he needs food and for those few minutes devote ourneeds, because he recognizes the fact farmer would expect his horses or his they are given plenty of fresh water. As horn serve as a prize for the male winthat different bodies call for different machinery to last six months if he gave the pupples are sold as rapidly as posner and a sugar scoop for the lady. Little treatment. Certain forms of work call others, and thus the body would call for portance than the dumb animals or insen- great one. more food. Each person must then be a

erize," remarked the slim chap on the gan. He is a firm believer that nature different dispositions, just like human be- young enough to enjoy fun. A lap supper back platform of a car as a fat man knows what she wants and that if we ings, and I have to study each one and would be best in this instance. Give each addled out the front door.

I sten to her voice she will call for what learn how to handle it. I began with guest a wooden picture, the contents of "Come to think of it, you look as she needs. For this reason the followers two females which I bought for \$35 when bowls may be utilized, the contents of though you needed Fletcherizing your- of Fletcherism have no cut and dried they were two months old. For breeding which may be served with wooden spoons. self," replied his friend, and then the rules of diet. The founder of the cult they were bred to the New York winner, Let shavings, clean and curly, be your does not feel his appetite calling for Little Vet. I had to pay \$25, but when only decoration. For teaspoons use tiny What sort of principle is this that meat, so he does not eat it. But he does the puppies makes fat folks thin and thin folks fat, not, for that reason, urge everyone to give wondered many. And the answer epitom- it up. He does, indeed, say that he ized is, simply a sane method of eating, believes people who follow his rules of The theory was worked out by Mr. Hor- simple living will not feel their appetite ace Fletcher, who, at the age of 40, found calling for meat, but if it does call for outlay were good.

The whole scheme is so simple, it is ance companies as a "bad risk;" weighing The whole scheme is so simple, it is 217 pounds though but five feet six inches hard to understand how it can benefit us. tall; afficted with indigestion, and subject Eat only when truly hungry, eat slowly to attacks of influenza every six months. and get all the good out of the food, all Mr. Fletcher decided that, as the body is the taste there is in it, swallow only kept going by what is put into it, a sane, when the food slips down of itself, do not yourself. natural manner of eating ought to keep it eat a crumb when appetite begins to les-

It is hard to see how such a scheme of endurance so that on his fiftieth birth- and see that the dog day he rode nearly 200 miles on his bicycle is well up on the pads Select the food called for by your own and got up next morning and took a little of the feet, has a good broken endurance records set by the color, with a Get all the good taste possible out of world's athletes, without athletic training blaze up the face and

He believes that most of the ills to these things taken towhich flesh is heir come from overeating gether make up the taste. If a solid, chew it slowly until it and over drinking. If we take more than 100 points necessary to make your dog wooden paddles. If in the city one may is thoroughly divided and "swallows the stomach can digest and the excretory a winner." organs can throw off, it simply remains Among Mrs. Hay's dogs are Champion delightful favors. Let the prizes be a Enjoy your meals and do not let any in the system to putrefy and engender Caddy Bell. This dog was the best in rolling pin for the lady and for the gen-

Eat as long as your appetite calls for dyspeptics who are dragging out a life which means, by the way, perfection.

sate machinery. Then let us begin to take care of them.

and enjoy the fresh air and sunshine.

"I should not call it easy work," said other foliage.

were six weeks old, they were weaned and sold for from \$30 to \$50 each, so the returns for the should advise anyone beginning to buy only the best stock, even if the price is high, for in selling you can command high prices

stock, there are certain things to look for. In Bostons, look muzzle, good tail: short. straight back, straight front, a white collar. All

300 at the Batavia state fair in New tleman, a wooden hammer. It is such a simple thing it seems a pity York. Encliffe Dora, another favorite, all can not try it, especially the poor lacks only one point of being champion,

to eat and rush back to work or to play. his purchase by Glengarry kennels, he would add to the enjoyment of the oc-Mr. Fletcher, himself, usually eats but Why not try to stop everything for say was the best male champion. As a sire

vegetables, everything being first put only that frequently. Instead, he urges selves to the really all-important task of through a food chopper. Stale bread and lar service. Give small tin horns for each person to study his own individual getting the most out of our foods. No dog biscuit add to the diet and of course favors. If there is a contest let a tin them the sort of care he gives his own sible after weaning, which takes place savings banks made of tin and so labeled for greater expenditure of energy than body. Surely our bodies are of more im- at six weeks, the cost of food is not a may be used for the place cards, the

#### A DOZEN WEDDINGS.

offers an excellent chance for decoration, cut glass patterns.

covered with soft crepe paper, looped with about them. paper roses, which can be made to look The twentieth wedding anniversary so natural. Crepe paper, stripped and gives the woman of taste an opportunity ruffled at the edges, can be used for fesblended to brown beautifully. Dainty pa- color scheme of the rooms can stand it, per roses, from the heart of which pro- use delft blue, the color of that famous name is written, should be laid at each dolls, charmingly dressed, can bear the place on the luncheon table. The prizes, place cards and a china dog may be used if games are played, can be of paper for a booby prize, while for a first prize and may range from the really choice a dainty china dish may do service affair to a shaving pad or a paper doll Another idea for a china wedding to be used as booby prizes.

the pyrography worker a chance to show where; use several imitations of miniaher skill. If the hostess have no talent ture trees and a lavish supply of flowers. in that direction she may buy for place Serve tea and wafers and give tiny umcards the leather postals used recently, brellas and fans for favors. An enormous imitation shoe overflowing

mother and her family, are partitioned with flowers, may be used as a centeroff down three sides, and fastened with piece. If games are played the hostess grated iron doors upstairs and down has a wide range from which to make Clean straw covers the floor. The build- her selections as so many leather articles ing is well lighted and sunny, and in are now in vogue. Black-eyed Susans winter is heated with a big coal stove, make a good decoration. Pick them with On either side of the building are large long stems that they may stand as tall runways where the doggies who are good as possible. Fruit cans filled with water natured and friendly can run at liberty are good for this purpose. The jars may be covered with asparagus, rushes or

Mrs. Hay, "but it is so interesting that I The wooden, or fifth wedding, is an F I was as fat as that fellow I'd Fletch. "Trust to nature" is Mr. Fletcher's slo- do not think of the work. The dogs have opportunity for the couple who are still



get small wooden churns, which make

It would be difficult to have woolen decorations on the seventh anniversary but one could, as far as possible, imitate food. Then stop eating and wait until of misery. Just a little more time at nature calls for another meal. Do not table, would solve the problem. Half the however, is Champion Hanley's Babe Boy, small wooly lambs, which can be bought in any department store for a few pennies could bear the place cards on their tiny casion.

The tenth, or tin wedding, is another The dogs are fed plenty of meat and occasion for fun. Tin plates, cups and spoons may be used instead of the regunames protruding from the slot.

At the crystal or fifteenth anniversary, the decorations can be made a thing BY INEZ DE JARNATT COOPER. of beauty. If you have cut glass, well The cotton wedding, first on the list, and good. If not, use your service with Wash with soap, The bride of a year has many pretty arti- ammonia and water, using a brush, then cles untouched and it is easy to give the polish until it glistens like clear crystal. house a dainty, fresh apearance. Serve Bring out all your glassware, vases and as far as possible, white foods. For a all, you will be surprised to find out how centerpiece have a mock bale of cotton, many pieces you have laid away since partially covered with white flowers. At that time, 15 years ago, when you "start-each place have one of the tiny cotton ed housekeeping." A toothpick holder of Tuck place cards carefully into cut glass and a bag of glass marbles may the whiteness of the bolls. The bride's be used as prizes. Have your centerpiece cake must be of the whitest, the bride a crystal lake, which can be made with a dressed in white, and as far as possible looking glass, the frame being covered have the color scheme white. With flowers. A tiny silver painted craft,
The second year brings the paper designated "The Crystal," would add a
wedding. Crepe paper offers wonderful finishing touch. The place cards could be scope for decorations that are beautiful spattered with crystals of diamond dust and inexpensive. Have the lamp shades but be careful to have but little color

The twentieth wedding anniversary to use her fine china toons. Use but one shade, blended if you her other treasures in that line without will, but just one color. Yellow may be the appearance of ostentation. If the trudes a tiny slip of paper, on which the china, for your decorations. Small china

is to let all the decorations suggest Third year, or leather wedding, gives China. Have umbrellas suspended every-

At the twenty-fifth anniversary the

#### Michigan Country Women as Money Earners. No. 8.

#### Boarding and Raising Thoroughbred Dogs is Fascinating Work.

OW many women have thought of farmer's granary. It is painted white caring for dogs, or breeding them, without and neatly whitewashed within, as a means of earning that extra and kept as spick and span as a neat money they want for their very own? woman's kitchen. Compartments large Mrs. Alex. Hay, of Wayne Co., manager of enough to hold two grown dogs or a

Glengarry Kennels, has found it a most profitable business, as a china cabinet filled with handsome silver trophies, and kennels full of valuable dogs will testify.

Ten years ago, Mrs. Hay started in a small way with thoroughbred collies. Four years later she added Boston terriers to her kennels, and for the past six years has devoted most of her time to breeding these high priced canines. Besides, she boards from 50 to 60 dogs every summer while the owners are away on vacations, and from these two sources makes a handsome income.

Glengarry kennels is the popular summer resort for Dogdom. The building is about the size of a prosperous



Denver's Reno.

decorations may be of silver paper and on a vegetable diet. play of the accumulated silver of years. A pair of tiny mercury wings, so much in vogue now, cut from silver paper,

enty-fifth, diamond, do not come to all, make for strength. nor indeed many, and when they do they are often occasions of sadness, although at a recent golden celebration in an Illinois village the old people were as merry as could be. They had decorations, too, of golden color; and actually had some of their bridesmaids and ushers, they called them groomsmen in those older days, "stand up" with them and receive. And right brazenly did the old guests, when returning on the various interurban cars, wear their great bunches of golden glow; making us middle-aged folks feel real youngsters, and at least outsiders. Everything was done in the good old In marked contrast was a golden wedding in an adjoining town, where on could be taken to iron it, so I dampened a cold, bitter day, nothing but dainty a sheet thoroughly, laid on ironing board ices were served to the elderly callers, many of whom had to travel several miles home after leaving the house-in a raw March wind. There are but two things and ironed perfectly dry.-Mrs. J. C. T. to be said for these latter life celebrations. First: It is generally best to have them in the form of a reception so that elderly people, who prefer may come and leave no spots.—M. S. go at will, and second: if anything is served have something warm and digestible so that delicate persons, who may, from politeness and sociability, desire to partake, may not be made ill.

### THE NECESSITY OF EATING MEAT AND EGGS.—No. 19,

Some time ago prophets arose who provegetarianism. The great good to be gained by eschewing flesh was preached, and practiced, and all sorts of substitutes for the nitrogen, or proteid, to be have a smooth, glossy surface.-G. W. found in meat and fowl were hatched in the brains of the votaries of this new diet. Some even went so far as to declare that all foods should be eaten in the uncooked state, just "as nature provided them," and I have now a wonderful and curious recipe book, telling how to prepare raw foods, so that woman need no good texture to the bread.-Mrs. H. F. longer "unfurl the dishrag over a flery

Undoubtedly many people eat far more rank flavor and acid .- M. B. S. meat than is good for them, and many more do not eat a great enough variety of Many people can not buy the vegetables, and many who can have them for the raising do not eat them "because they do not like them." This last reason might be taken as a valid excuse if those people were always well and strong, but when they are suffering from indigestion and anaemia, biliousness, conbetter for them to cultivate a liking for home-grown vegetables, which contain many medicinal properties, and leave drugs alone.

What everybody needs is a well-balanced ration, consisting of both vege-tables, meat and fruit. Each of these the human system, and none can be narrow lace. omitted without having to make up that principle in some other way. Of the be starch, and the remainder equally divided between proteids and fats. Experience has proven that the most satisfactory way to provide the proteids is by means of meat, fowl, fish, eggs, etc. This is the most palatable way, as everyone enjoys good meat, and it is also most economical. The proteids might be made up by using vegetables, but such large quantities would have to be eaten to make saved.

the cereals.

and supervision. One person is told by his doctor to live waists.

color. Let the hostess wear silver gray jumps to the conclusion that this is the and in the wedding cake have a silver only right way to live and preaches the ring. This is an occasion for the free dis-doctrine to his friends. They, with their proclivity to try everything new, adopt the new manner of eating, and a fad is inaugurated. This is wrong. No one would make charming place cards. A should deliberately drop meat and eggs sterling spoon and key ring would do for from his dietary unless advised to do so by a competent physician. Indeed, most thirtieth anniversary is pearl; women would do better to eat more meat fortieth, ruby; fiftieth, golden, and sev- and eggs than they do, as these foods

#### SHORT CUTS TO HOUSEKEEPING.

This department is opened as a means of exchange of new and successful ideas in homemaking. If you have learned something in cooking, sewing, child raising, fancy economy, anything which is helpful, and new, send it in. Twenty-five cents will be paid for every article used, but none will be returned. Keep your suggestions short.

When laundering a white brilliantine waist it became perfectly dry before time and ironed waist on it. Continued dampening sheet and ironing until waist was thoroughly dampened. Then removed sheet

To brighten carpets and take up dust moisten salt with coal oil and sprinkle over them. Sweep at once and it will

A quick way to make a light and dark layer cake is to bake the dark part first When almost done remove from the oven, pour the light part over it and replace in the oven and bake quickly.-E. L.

If pudding, escalloped potatoes, or in fact, anything covered with milk, be heated before placing in the oven, they will cook much quicker .- E. L.

To polish floors: First see that the claimed to the world at large the cult of floor is dry and free from dust; apply hot parafine and polish with a long-handled hair-scrubbing brush, heavily weighted to lessen labor. When finished you

You will be surprised at the small amount of kneading required to make good light bread or rolls if the yeast sponge is given a vigorous beating of from three to five minutes before it is put to rise. Two risings for the sponge with a good beating each time, gives a

Prepare pieplant same as for pies. Put furnace, gilded with greasy pots and in an enameled basin and cover with cold plates, blood and bones," and stand there water. Place on range where it will heat an "imprisoned vassal" instead of a slowly until it reaches the boiling point. Remove and drain. This takes out the

#### TO DRESS UP A PLAIN WAIST.

A dainty touch is given to many shirtwaists by the adjustable pleats and ruffles. These are made either of muslin with lace edged ruffles, of muslin with lace ruffles, or all of lace and insertion, the insertion forming the "pleat"

A dainty one is made by using a strip stipation and kindred ills, it would be of insertion the length of your waist from throat to belt, and sewing to it on either side a ruffle of lace to match the insertion. Equally dainty ones have a strip of hemstitched muslin with accordeon plaited muslin ruffles. The ruffle on the left side is usually slightly wider than that on the right. These ruffles may be either contains some food principle needed by hemstitched or edged with a tiny bit of

#### A New Trimming for Kercheifs.

A dainty finish for handkerchiefs is the solid food eaten, about 55 per cent should narrowest lace imaginable. Indeed, it is nothing more than a series of tiny points, or picots, not deep enough to be dignified by the term "scallops." The woman who loves to crochet could deck two or three linen kerchiefs in an afternoon with these points, using fine thread, and fashioning her own pattern.

#### Those Dutch Collars.

This is to be a summer for the girl with pretty. up for the amount contained in a smaller Dutch collar is the thing. But let her bulk of meat, that nothing would be scrawny sister stick to the more becomaved. ing, if warmer, stand up collar. The This might not be true if everyone could Dutch collars are about four inches deep, eat the leguminous vegetables, peas and with plain or fancifully cut edges. They beans, as they contain a large per cent may be trimmed with narrow or wide of proteid in a small bulk. But many lace, val or torchon or Irish crochet. Or people could not digest these vegetables, you may dispense with the lace and emand would have to get their protein in broider them, or cover them with dots in a color to match the waist with which Of course, there are times and condi- you will wear them. If you like to sew. tions when a vegetable diet might be buy one for a quarter, get the right highly beneficial, but it should never be shape from it for your neck, and make tried without competent medical advice yourself a half dozen from the bits of The great trouble with muslin in your scrap box. You can vary Americans is their proneness to fads, them to suit your own dresses and odd

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CUCUMBERS FOR THE PICKLE STA-TION.

We are trying an acre of cucumbers for the salting station that is to be erected here this summer. claim to know much about growing cucumbers, much less to tell any one how have them in available forms. to do it, perhaps if the subject is opened according to the best scientific men, thirup some one will give some experience teen of these elements in all. Almost valuable to all of us who are growing them.

Our advice from the factory is to plow of plant growth except about four. early and work the ground often until about the 5th of June. Then mark the this is only needed to be applied occasground one way only and make a trench on each mark with a plow. Fill this nearly full of well rotted manure, cover lightly with soil, then drop the seed by hand several inches apart in the row and cover with about an inch of soil. Commence cultivating when the plants are about three inches high. Thin out the weak plants, leaving three strong plants in a place about  $2\frac{1}{2}$  feet apart in the Cultivate frequently, and rather shallow until the vine begins to run.

letter because it did not seem to be the best plan for our location. We are growing the cucumbers in a young orchard alongside of crops of strawberries, corn most likely to be needed in enriching the soil, nitrogen, phosphorus and potash, the both ways so as to save hand work, consequently the cucumbers had to be planted in hills and spaced to correspond with cheapest, by taking advantage of nathe other crops, which is three feet apart one way, and seven the other. A row of beans were planted between the rows bulk of the air is composed of it, and in the wide way. We used from six to ten seeds to the hill, planting with a hoe and leaving hills about level with the surface, a few being hilled somewhat and some dropped a little as an experiment. We What we call poor soils are always sure shall not wait until the plants are three to be wanting in nitrogen. inches high but cultivate at once before the plants are up, and perhaps once a week afterward until the vines have run considerably. It would seem that if the plants are kept in rows one way like a wide matted row of strawberries by moving the vines lengthwise with the cultivator as they begin to spread, that the picking operation will be easier.

As to the furrows and manure in them, we did not think this necessary, as this ground had an application of ten loads nitrogen in the soil it is in available conof manure per acre in the winter and another ten in the spring, being treated in this respect th, same as our strawberry bed alongside it. Considerable hoeing and loosening the soil about the plants will also be done which is not mentioned in the instructions.

In growing a few hills in the garden we have always been troubled considerably with the striped cucumber beetle and have found no really good remedy. The manager of the factory states that ashes and turpentine will drive them away, and we will add this to our list of things already tried. It is also likely that a larger patch will not suffer from these pests as would a small one. We should be glad to have some advice from experienced growers through these columns. S. B. HARTMAN. Calhoun Co.

#### WAYS OF ENRICHING ORCHARD SOILS.

ever need. Much of it, however, is so soil. hidden that it is not known to any but them only imperfectly. Much of the fer-nitrogen to the soil, and humus as well, tility that is so greatly needed is in the is the cowpea. It was thought for many soil, and also in the water and air. There years that this crop was only suitable for ticles of fertility in its water.

the great oceans are strewn with the only the earliest kinds should be planted. washings from the land, and their waters Although cowpeas will do well when hold in solution mineral salts that plant sown broadcast it is better to plant them life may utilize in some future time. The in drills about two and one-half feet air holds carbon in the form of gas that apart and cultivate at least twice. From yields the principal material from which half a bushel to a bushel is enough for all woody substances are built, and also an acre. This will insure a stand, proone of the most invigorating agents, vided the seed is good, that will cover nitrogen, known to plant life. These are the ground completely. boundless in extent and inexhaustible in It is best to leave the crop to mature quantity.

soil the fruit grower must know the plowed under after frost or the next sources of supply of the plant food that spring. An orchard so treated will be he must have and how to secure them wonderfully stimulated by the nitrogen whenever needed. Practically all of us gathered from the soil and stored in the look first to the barnyard for plant food. pea roots. The soil will also be loosened This is, largely, the most natural and and made more porous by reason of the reasonable thing to do. A large part of humus that is added to it. the animal waste and also the vegetable

waste of the farm finds its way to the manure piles about the stables and feed

Barnyard refuse contains the very elements that plants need to cause them to grow vigorously. But the supply is often insufficient and we ought to know what they are and how to provide them in suitable quantities at moderate cost.

There are certain elements that plants While we do not must have in such proportions as they require, or else suffer. They must also There are, every tillable soil contains all of them in sufficient amounts for the ordinary needs

> One of the latter materials is lime, and ionally. On certain soils that are acid in character, from too much decaying vegetable matter, or that are naturally deficient in lime, it pays to apply it.

Lime that has been slacked for a long time should never be put on land, because it has gone through a chemical change that makes it of little value. It is best when perfectly fresh, and if possible, unslaked, but ground fine. Twenty-five bushels per acre is sufficient and will do for years. An orchard or any other fruit We did not follow this advice to the plantation that needs liming will show the benefits by invigorated growth and better bearing.

Of the three leading elements that are former is by far the most costly to procure in a commercial way, and yet the ture's provision.

Nitrogen is a gas and four-fifths of the a state of purity. In chemical combination with other elements it becomes plant food in the soil and is found there in abundance, in what we call rich soils.

Plants cannot feed directly on the nitrogen of the air, but it is a most fortunate fact that there is a class of plants that can and do extract the nitrogen from the air and store it in their roots through the agency of bacteria. These are the legumes, of which the clovers, peas, beans and other pod-bearing plants are prominent examples

Nitrogen Gatherers for the Orchard.

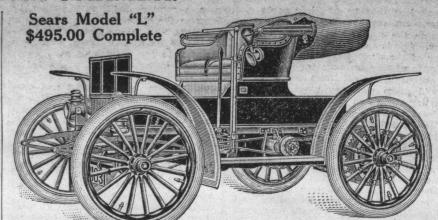
When the bacteria have once fixed the dition for any future crops that may be grown and it will also add humus to the soil which is usually much needed. There is no crop that will yield larger return for every fruit grower for small outlay than a crop of some kind of nitrogen gatherer in the orchard. It will invigorate the growth of the trees to have a crop of this kind plowed under, and at almost no cost except labor.

From my own experience with crimson clover I believe it is worth fully \$20 per acre to an orchard. It will not succeed over so wide an area as the common red clover, but where it does succeed it has the advantage of being quickly grown and turned to account, because it is an annual. Crimson clover should not be allowed to grow to maturity in an orchard, but be turned under by the time it has begun to bloom. Otherwise, it may sap the soil of too much of its moisture. An orchard needs early and thorough tillage and this should not and need not be de-Nature has provided ample fertility for feated at the expense of securing a good the growing of all the crops that man will crop of crimson clover worked into the

Another most valuable crop for growing the closest students of science, and to in an orchard for the purpose of adding is not a rivulet connecting its flow with the southern states, but this has been the ocean that does not carry tiny par- found to be a mistake. It has been grown with good results as far north as Wiscon-The beds of sluggish streams, lakes and sin and New York. In northern sections

and rot on the ground, that all of the Along with all other cultivators of the fertility may be added to the soil when

> W. H. UNDERWOOD. Illinois.



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# wheat

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