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FARM NOTES.

potatoes are an important cash crop, the more to put the crop in winter storage farmer who makes this crop an important the uncertain weather of the fall season, factor in the crop rotation. In very many while, if they are to be held for a later lar held about 1,000 bushels. The floor seasons, the early market is unsettled and unsatisfactory to the grower, as is much the cheaper. the case this year. On most farms where potatoes are grown on a commercial scale there is no provision for the winter storage of the crop, other than the cellar ander the house in which the farmer lives, and this is usually filled to its capacity to the great inconvenience of the housewife and, where the crop is held until late in the spring, at some risk to the health of the family, although if the cellar is given a thorough cleaning and a liberal coat of whitewash after the potatoes are removed each spring this danger is reduced to a minimum. But since this storage room is inadequate on most potato farms, and since some other provision must be made for storing the bulk of the crop, it is a good plan to provide sufficient storage room for the whole crop where outside storage is planned on at all, since no one would store large quantities of potatoes in the cellar of the preference. While it is perhaps too late build extra storage room for this year's crop on the average farm, it is a good time to plan on the future, since, if this is neglected at this time, when the need of extra storage for the potato crop is most keenly felt, it is likely to be neglected until the same situation confronts

us again. Economy in Adequate Storage.

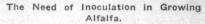
This being granted, let us first consider the economic importance of having adequate storage for the late potato crop. There are many growers who plan on selling directly from the field at digging time, but this is not always practicable. There will be years, like the present season, when the stock will be too green to market to advantage, and when the tubers cannot be sold at what seems like a fair price. There will be other years when a scarcity of cars will prevail, and when for th's reason dealers would be unable to move the crop anywhere near as fast as offered. Besides, the plan of marketing the crop as fast as it is dug entails considerable delay in harvesting it and a consequent danger of loss from freezing. If the potatoes are put in pits as dug, which is generally the only alternative, moving them is likely to be a disagreeable task in the uncertain weather the late fall, to say nothing of the loss likely to be met by the freezing of pits before the potatoes are moved, or the greater loss from freezing where the pits are covered for winter protection and an attempt is made to hold the crop over until spring by this method. That the oss from these causes, together with the frequent loss due to the fact that the grower can not get at his potatoes to market them should the price favor selling during the winter is large enough in the aggregate to pay big interest on the investment required to provide adequate and safe winter storage can hardly be doubted. That in individual cases it is sufficient to pay the entire cost of such storage will be sorrowfully admitted by many. It is obvious that a large part of the late potato crop must be stored by air spaces inside this hollow wall made forced with a layer of building paper, growers, dealers or speculators until it is by using building paper inside of a fur-needed for consumption, and it is a logi-ring placed against the inside wall for Where buildings are being remodeled or cal conclusion that in most seasons it will the purpose, with another furring with a others built, very convenient potato storbe good economy for growers to do most lath and plaster finish, and with the ceil- age can be cheaply provided. The writer of the necessary storing. At least it is ing suitably protected. certain, from the economic standpoint,

market, this method of handling them is

Economy in Providing Storage.

that they be in a position to do it, rather ing will not be considered unless a large barn. This cellar is arched over with than be forced to sell the crop early be- acreage of potatoes is grown or the grow- reinforced concrete and covered with dirt cause of a lack of suitable storage. It is er has been so successful as to be un- to form the driveway to the barn floor, In a state like Michigan, where late the writer's experience that it costs little usually forehanded. In most cases ade- with "manholes" covered with concrete nesses of inch boards, with joints broken and building paper between, but the poeconomic importance of adequate tatoes never froze, and kept perfectly.

quate storage can be more cheaply pro- slabs provided for putting the potatoes in question of adequate storage in which to quarters when dug, even if they are sold vided in the form of cellar room under from the driveway above the cellar, and hold the crop, or at least a portion of it, at a comparatively early date, than to outbuildings. For several years the writ- provision for taking them out at a level becomes an important one to the average pit them and move them from the pits in er kept potatoes in a cellar built under only slightly above the cellar floor a woodshed on a rented farm. This cel- through a door opening into the basement which is accessible for a wagon. Cheap, over the cellar was made of two thick- temporary storage can also be provided where a side hill is available, by the use of rough poles, marsh hay and a covering of dirt, but where one is going to stay in the business it is a better and more economical plan to provide permanent storage room, as its construction will involve little more labor than the provision of a mere makeshift, while its permanent value will make the investment in material an economical one.



Alfalfa.

Institute speakers and writers make a great mistake when they say so much about the culture of alfalfa. They tell you that you must inoculate your field with soil from an alfalfa field, and so on, going on to tell a whole lot of stuff to do, and it makes the farmer feel that there is no use for him to try, to raise alfalfa, if he must do all this and then not be sure of a catch when the seed is so dear. There would be more fields of alfalfa growing if it was not for such advice. Wherever there is a seed dropped here grows, along the road, in fields or anywhere. I had some in a field beside a plowed field. The horses turned around on it and trampled it, the harrow went over it, also disk drill, and the more it was abused the better it seemed to do. It seems to grow in any kind of soil. I also think it would be a hard thing to kill out in a cultivated crop.

Emmet Co. G. F.

It is true that in some localities no in-

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A Northern Michigan Farmstead, Home of C. H. Beardslee, of losco County.

storage for the potato crop being granted. In fact, this cellar needed ventilation, exgrower. Storage built entirely above pense be excessive if the work can be wall of concrete blocks with two extra and another thickness of flooring, rein-

let us consider how it can be most eco- cept in the very coldest weather. This oculation seems to be required for the nomically provided. This will, of course, was satisfactory, yet very cheap storage. depend largely upon local conditions, and Such a cellar could be made very cheaply is an individual problem with each potato on any farm by home labor, if concrete instead of stone was used for the wall. ground is gaining in popularity among Another easy and cheap plan to make a those who can afford the initial expense potato cellar is under the drive floor in of such construction. Nor need this ex- a barn which has no basement. Here the excavating, and even the building of the largely done with home labor, as it can concrete wall, can be done in cold and if the structure is made with a hollow stormy weather by the regular farm help,



A Good Crop of Beans Grown on the Farm of N. J. Crawford, of Benzie County.

But on the average farm such a build- crete under the approach of a basement theory be condemned if one fails to se-

knows of one potato cellar built of con-

successful growing or alfalfa. It is also true that it can be grown in almost any locality without inoculation. The Wisconsin Experiment Station recommends the heavy manuring of land intended for alfalfa the fall previous to the time when it is to be sown. It is then plowed and worked over frequently the spring following, to subdue the weeds, and sown to alfalfa seed without inoculation. The available plant food provided in the abundant coat of manure will then keep the alfalfa growing until the bacteria, of which there are always some in the soil, get well distributed throughout the field and act favorably on the plants. But the average man who sows alfalfa will not fertilize it thus liberally and as the process of natural inoculation is a slow one, the crop will not amount to much for the first year or two, because it will not grow thriftily without the presence of the ntirogen-fixing bacteria. The sowing of soil from a successful alfalfa field brings about an even distribution of the bacteria over the field and hastens the process of inoculation to an extent which often will be found to save a year or two of time in the production of a profitable crop of alfalfa. The experience of successful growers who have tried both methods, as well as authentic experiments tried at several xperiment stations have demonstrated this point until it is no longer a question of doubt. Nor is the trouble involved a reasonable excuse for not trying the growing of alfalfa where inoculation is necessary. In all cases where it is resorted to, however, it is a good plan to leave a strip uninoculated so that the comparative results may be noted. cases where the soil already contains the bacteria in sufficient numbers to make artificial inoculation unnecessary it is likely to be condemned by the one trying Where buildings are being remodeled or it, but it does not follow that like results would be obtained on other soils. In fact, experience proves that such would not be the case. Nor should the inoculation stand is poor, even when artificial inocuthat the so.l needs lime. Where alfalfa succeeds well without inoculation, it troughs, feed boxes and floors, will generally be found that the soil consucceed with artificial inoculation when repair. it has been given a good chance in other ways it is a safe conclusion that the soil does need lime. There are a large number of progressive farmers trying the effect of lime on soils intended for alfalfa abundant supply of natural fertility, but this year, and the results secured will afford valuable knowledge regarding the necessity of or profit in liming soils for alfalfa. But where alfalfa grows as naturally and readily as G. F. states it does in his locality, there is every reason for sowing it, in a small way at least. When it is once given a chance to demonstrate what it will do for the grower, we believe that it will be grown to a larger no fear that it will become a troublesome weed, for no man who gets it introduced on his farm will be anxious to get rid of it, and when he does plow it down he will be more friendly to it than ever, since it is a valuable soil renovator and improver, in addition to being an abundant producer of the most valuable forage which can be grown on any farm.

THE FALL WORK.

Corn cutting is about completed, in fact, most farmers finished some time but some are always late and are just coming down the home stretch. The fodder cut so long after hard frosts is badly colored and mean to cut when a little dry, and it is pretty well determined that it is deficient in nutritive value. Husking has begun, mostly by hand as yet, though the shredders have begun to run. A couple of weeks of dry, warm weather has dried out the fodder very well, and after a rain it should be in good shape for hand husking and soon will be in conditoin for the shredder. Considerable corn is left uncut and will be husked from the stalk or the stock turned in.

Potato digging has begun, and the crop is turning out fairly well, but not a large yield. The warm weather and unripe condition of the tubers has acted against the market so it is down to the level of prices at this time last year, thirty cents. Whether the price will continue to fall or will rise later is problematical. I hardly look for a rise in prices until most of the stock is in the buyers' hands, and what it will do then will depend much upon the crop, though if we take last season's prices as a standard we need not look for very cheap prices to the consumer even if the grower has to take very low ones. It is possible that it will be good policy to store potatoes this season, but I think we will take a chance on selling them now. We can put them on the car as cheaply as we can pit them or put them in the cellar. Then we can sell to buyer or consign to some good com-

Early sown fields of wheat are looking bad owing to the warm weather this month with no frost for some time, which is conducive to the work of the Hessian Some fields sown ab 't the 10th are now quite barren and not as far along as those sown about the 20th. The higher spots where the wheat seemed to be a little earlier go first, as a rule. As yet the soil as deep as the organic matter is our field sown on the 15th looks very plowed under. well, and the corn ground which we finished late in September is looking well. As a rule, wheat sown about the 15th possibly this year will be an exception.

firm, and the crop is likely to be short composition goes on slowly and the pronext year in this region. Clover seed is duct will be widely different. Under such remains to be hulled. The short growth perform their work, makes it difficult to handle.

S. B. HARTMAN. Calhoun Co.

CONCRETE-A YOUNG GIANT.

Concrete, that lusty young building material newcomer in the construction field, is coming more into general popular use. The latest annual figures of Portland cement production, compiled by the Geological Survey, are the largest on record, up from below. while the price is down within the reach

cure a successful stand of alfalfa where of all. The farmer, accustomed to build it is tried. We do not yet know all about on a business basis, and thinking ahead the requirements for getting a successful as to the items of durability and cost of stand of alfalfa, but we are learning more maintenance, is going in more and more about it each year. In cases where the every year for sanitary concrete cowbarns, for concrete dairies that can readlation has failed to bring results, it may ily be kept clean, for fence posts that are ever-lasting, for concrete watering tanks and silos and a dozen and one tains plenty of lime. Where it does not foundations and equipments that need no G. E. M.

MANAGEMENT OF CLAY SOILS.

The average clay soil possesses an unless conditions are very favorable this fertility remains in an unavailable condition. In the management of clay soils the practical point that we need to keep in mind is the fact that we must modify soil conditions so that this locked-up fertility may become available for the growing crops.

These stored-up elements in the soil are to be regarded as so much potential enextent in the community where the ergy, which by our methods of cultivation demonstration is made. There need be and management may be converted into active energy. We must therefore seek to adopt such methods as will conserve and preserve this stored-up energy, or fer-tility, except such as is necessarily required to produce profitable crops from year to year.

Clay soils must be properly drained before they can be brought under a profitable system of cultivation. Without attempting to enumerate all of the advantages of thorough drainage on clay soils, attention may be called to its improving the temperature of the soil by removing the water from under the surface and giving the air and moisture an opportunity to separate the soil particles and permit a better growth of roots.

Drainage also prevents the washing of the surface and assists in conserving available fertility. Its influence on the temperature of the soil, especially in the spring, is of particular importance, as it lengthens the growing season and makes it possible for us to begin work earlier in the spring and to perform the work in a more thorough manner during the whole of the gowing season. It is impossible to properly cultivate a soil saturated with water.

In addition to these direct benefits of drainage, there are a number of indirect ways in which the soil is improved, such as through the influence of a higher temperature on bacterial and chemical changes going on in our soils. There are bacterial processes that play an important part in this branch of natural economy, and we must so shape our methods of cultivation and management as to get the advantage of these processes.

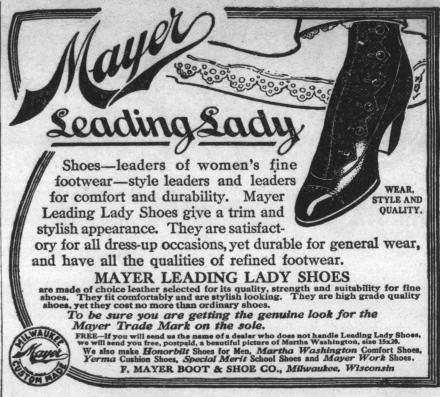
These clay soils which are the most benefited by a thorough system of tile drainage are the most fertile soils in the country and they will therefore warrant largest expenditure in improvement and development. While every farmer is not able to put in a whole system of tile drainage the first year, he can so plan his labors that what he is able to do from time to time will fit into a permanent system and not be a haphazard, disconnected work.

I believe that more injury has been done to clay soils by plowing too deep than by all the cropping yet done in the country. One fact worthy of our attention is that in the cultivation of clay soils we must keep the humus or organic matter as close to the surface as possible until the physical condition of the soil is such that the air may have an access to

Vegetable matter, when exposed to the action of the air will soon decompose into carbon or vegetable mold and carbonic better than that sown later, but acid. Large quantities of vegetable mold and carbonic acid make the soil plow New seeding is looking better than light, loamy and free from clods. On the promised earlier, though most fields are other hand, if this vegetable matter is thin in spots. Some tried disking in more plowed under deep the air cannot reach seed with fairly good success. Hay is it in the saturated wet soil, and the deturning out fairly well but considerable conditions the nitrifying bacteria cannot

> When the air can have free action through the soil the sods will decompose into carbon and carbonic acid, which will liberate the plant food in the soil and provide the growing plants with nourishment. When it is desired to deepen the cultivation of clay soils the work should be gradual and there must be a very thorough intermixing of the soil with vegetable matter as fast as it is brought

As a general rule, it will be better to



Notice to the Electors of Wayne County Proposed Issue of \$2,000,000 in Bonds For the Maintenance of County Roads in Wayne County,

Pursuant to the following Resolution Adopted by the Board of Supervisors October 15th, 1910:

Be It Resolved, that the County of Wayne contract an indebtedness of two million dollars (\$2,000,000) and issue bonds for the same, to be paid within fifteen (15) years from the date of the issues of the same, for the purpose of raising money for the construction and maintenance of county roads in the County of Wayne, and that the said bonds therefor, be issued in the following manner:

\$200,000 for the first year. \$500,000 for the second year. \$500,000 for the third year. \$500,000 for the fourth year. \$300,000 for the fifth year.

Said bonds to be redeemed serially at the rate of one hundred thousand (\$100,000.-00) dollars each year from the date of the first issue, except that \$200,000.00 be redeemed fifteen years from the date of the last issue: that said sums be expended under the direction of the board of county road commissioners of said county, in approximately the amounts, each year, for which said bonds are issued for that year: that said bonds shall not be negotiated at less than par and the accrued interest.

county, in approximately the amounts, each year, for which said bonds are issued for that year: that said bonds shall not be negotiated at less than par and the accrued interest.

Be It Further Resolved, that the question of issuing said bonds for the purpose aforesaid be submitted to a vote of the electors of the County of Wayne at the next general election to be held the first Tuesday after the first Monday of November, in the year 1910, and that notice of the submission of said election to a vote of the electors be given in the same manner and for the same length of time as now prescribed by law and that the manner of stating said question upon the ballots at said election shall be as follows:

INSTRUCTIONS TO VOTERS;

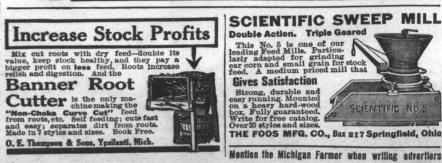
Mark a cross (X) in the square to the left of the word Yes or No.

In favor of issuing bonds of the County of Wayne, in the sum of two million of dollars for the construction and maintenance of county roads outside of the City of Detroit, in Wayne County.

In favor of issuing bonds of the County of Wayne, in the sum of two million of dollars for the construction and maintenance of county roads outside of the City of Detroit, in Wayne County.

THOMAS F. FARRELL, County Clerk.





apply fresh manure to clay soils, for the reason that fresh manure mixed with the soil goes through a process of fermentation which not only increases the availability of its fertilizing elements, but also assists in rendering soluble the hitherto unsoluble contituents of the soil. On a large proportion of clay soils there will be more benefits from the manure when it is applied as a top-dressing to the grass lands. In this way we grow more manure to incorporate with the soil when it is plowed.

After a clay soil has been improved by under-drainage, tillage and fertilization so that it will grow good crops of clover it is an easy matter to adopt a rotation, of crops in connection with live stock feeding that will make sufficient manure to return to the soil to maintain it in a high state of fertility.

W. MILTON KELLY. New York.

ALLEGAN COUNTY FARMERS IN-TERESTED IN ALFALFA.

I am quite a thorough reader of the Michigan Farmer, especially the dairy and The farmers alfalfa discussions. western Allegan county are just beginning to get interested in sowing alfalfa, some in a small way only as yet. have had a small piece by the roadside for five or six years as an "object lesson." It has been mown twice each year and then grew the third crop. As there was no need for the third crop we did not cut it and during the very dry time when pasture dried up badly, this alfalfa came on finely and one man remarked that he thought this small piece was as good as ever this year. In the spring before the alfalfa started you could see nothing but June grass on the plot and one would be inclined to call it nothing but a piece of June grass.

I have sown a half acre near our horse barn to have for soiling as early as prac ticable and I put two wheelbarrow loads of inoculated soil over the piece and have a fine stand of alfalfa.

I got my first idea of sowing the alfalfa, and the best way, from a magazine article several years ago by Charles Dudley Warner, I believe, of how they sowed and grew it in the middle west. It was my good fortune to visit Hall county, Nebraska, a few years ago and it was very interesting to see the great meadows of alfalfa that they grow there for their cattle. They do not like it so well for their horses.

One of my neighbors has just sown a small piece of alfalfa on an excellent piece of sandy loam with a clay subsoil and did not inoculate the soil, and I shall watch it with interest.

H. H. GOODRICH. Allegan Co.

BLACK MEDICK.

Enclosed find a specimen of a plant I found in a small spot of my front dooryard and would like to know what it is. The seeds are matured on the specimen, which has leaves and a tap root resembling clover, with a rather diminutive yellow blossom. Would like an answer in the columns of the Michigan Farmer.

Gratiot Co.

The plant is Medicago lupulina, Black Medick. It is a plant very closely relat-

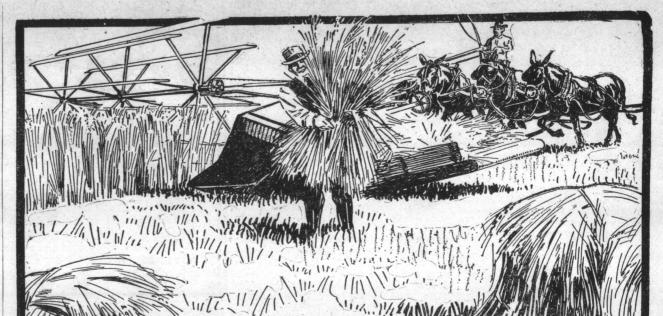
Medick. It is a plant very closely related to the clover and alfalfa but more often regarded as a weed than a forage plant. It is usually introduced into lawns and fields through impure seed. As the plant is an annual, it can be exterminated by preventing it from going to seed by cutting it off at the ground every time it starts to grow up. Of course, since this plant was allowed to go to seed. more of it will have to be expected next year but if it is prevented from seeding next year, it will not bother in succeeding years unless re-introduced with seed.

E. A. BESSEY, Prof. of Botany, M. A. C.

PLOWING VS. DISKING FOR WHEAT.

Having read the article with regard to disking or plowing wheat ground, will give my experience. The year of 1907 we built a new house, and when the time came for putting in wheat we were very busy, and thought to hurry our work along we would disk the oat stubble for wheat instead of plowing it. We got a light wheat crop, and the two years since we have had to cut the field for hay. One of my neighbors told me I would be bothered with weeds if I did not plow the ground, but I tried the experiment and in the two hay crops I cut and carried out enough vellow dock to make half a ton on 10 acres of ground, and think the cause has been disking instead of plowing

Gratiot Co. E. C. FERRIS.





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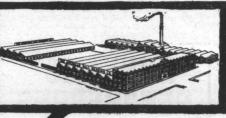
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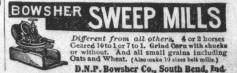
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BREEDING THE FLOCK.

It is very evident, when we consider results, that there is not as much attention paid to the various details of breeding the flocks on the average farm, to maintain a high degree of excellence, as there should be. As it is in many other matters, there is an evident indifference, or a lack of appreciation of the necessity of making an effort to make some degree of progress at each year's mating, in order to secure the desired results, and the increased profits that are sure to come if the right methods are followed.

Viewed from the proper standpoint, the hope of making possible improvements ought to awaken within the flock owner a thrill of enthusiasm that would bring to mind a real vision of stock that will, if fully realized, show a marked improvement over the stock in hand. It was the hope of attaining to better things that has led to the sublime efforts that were made by the breeders, that has enabled them to make such rapid strides in individual and breed improvements as will stand as monuments to the skill and good judgment of the sheep breeders of the last half century. In many cases their highest hopes have been fully realized. All are not endowed with great foresight, or gifts as breeders, but by bestowing a reasonable degree of attention, and using fairly good judgment, the character of the flocks can be held to a high standard and gradually improved.

Selecting the Ram.

No matter what breed of sheep one may have selected as the one best adapted to his tastes and conditions, it is the wisest and best plan to follow, if within the range of reasonable possibility, to select every time a cross is to be made, a pure-bred ram. The grade, no matter how meritorious in looks and general appearance, is unreliable; he lacks the ancestral influence that backs the purebred ram, which makes it, not only probable, but a certainty, that he will leave impress for the betterment of the

The general makeup of the ram is a matter of prime importance, for it is to the sire that we look for improving the external conformation of the progeny. One of the first things to look at is the head. If he is wide between the eyes, has a clean, open eye, and a head of medium length you can rest assured that he is a good feeder, and is robust in character. The neck should be rather short and muscular with good width at the poll. He should stand on straight legs of medium length, and they should stand well apart, both in front and behind, which gives room for a large heart, lungs, and stom-He should be well filled back of the shoulders, have a broad back, made by well sprung ribs, broad loin, and hams well let down behind, and should be low in flank. He should have the appearance of compactness, and yet be of good size. When moving he should have a bold, resolute carriage. Such a ram will transmit his desirable characteristics of beauty and constitutional vigor to his progeny with great certainty.

When to Breed.

The time in the season when the ewes should be bred ought to be well considered. The mistake is often made in having the lambs come too early, especially where the buildings are not warm and convenient for caring for lambs during cold weather. The period of gestation is around five months, or 150 days, but the time varies with the different breeds and with the different individuals of the breed, With the quick maturing breeds the time is put with the ewes the 10th of Novemunder average conditions.

Handling the Ram.

Where the flock does not exceed fifty in numbers, it is customary to turn the on the beet tops and is more prevalent in ram in and pay no more attention to him. ram's brisket and lead him to the ewes. years are the worst. As soon as he sees the flock he will bleat, erally come toward him. As soon as he serves a ewe, she will be marked, and should be put aside, as one service is as harm.

good as more. If allowed his freedom the ram will often pay a good deal of attention to one ewe and neglect the rest of them. By guiding his movements this can be avoided and all the ewes that are ready can be served in a short period of

The ram should be returned to his pen or yard and should be well fed and cared for through the day. By taking him to the flock each morning and guiding his movements, the ram can serve a large number of ewes in one season and not become exhausted.

Wayne Co.

N. A. CLAPP.

THE EWES AT BREEDING SEASON.

The fall weather is here and cool nights and cloudy days bring the ewes into

How about your ewes and your ram? Are the ewes on good pasture, fresh stubble, or late meadows? They absolutely must have good grazing to "flush" them now if you expect them to breed regularly. How is your ram? If he is not in good health with plenty of vigor, he will fail as a good breeder if he has many ewes to breed. We want a strong, husky ram, one that will tease the ewes a little and be ready to serve the first ones, helping thus to bring the ewes in earlier. If he has his full number of 40 or 50 ewes to breed this fall he ought to have some extra feed in the shape of good grain. To know how your sheep are doing you ought to look them over once a day. Take a pail of corn and oats while you watch your flock, and let the few thin ewes and the ram have a bite or two of the grain. It will gentle them all, and, if you feed the grain carefully and regularly the results will be most gratifying. Give the sheep a little more attention anyway and see the good it does them.

To those farmers who have a large flock using two or more rams I would like to suggest that you divide the ewes into quite uniform bunches, giving about 50 ewes to a ram. Separate the flocks and apportion out the rams to those flocks whose ewes seem to be strong where the ram is weak. For instance, when you divide the flock you will probably put the long legged, narrow ewes in one flock, the little, younger ewes in a separate flock. and the blocky, thick-set ones in still another flock, as far as practicable. Then, in choosing the rams, choose the blocky ram for the long legged ewes, the robust, most vigorous ram for your smaller ewes and so on. This will, no doubt, seem foolish to many but just such foolish practices are what have brought the uniform improvement of the pure-bred and selected stock. Just such foolish apportioning of the ewes and rams has been one of the greatest helps in improving and realizing the marked uniformity that the range lambs show today. Separate the flocks thus as far as possible and in that way you can more easily give the weaker ewes the best pasture.

Iowa. J. C. C.

BEET TOP POISONING.

The proposition of feeding beet tops to live stock has been the subject of considerable discussion in the Michigan Farmer. Some beet growers have fed beet tops for many years without any ill effects, while others have met with serious looses from feeding them. Doubtless, the investigations relating to the cause of such trouble made by the Colorado Agricultural College will be of interest to those who have had costly experience in the use of beet tops as a stock food. The conclusions reached as a result of those investigations are as follows:

Death comes from two general causes: First, and probably most common, is the oxalic acid poisoning. Beet tops contain a considerable amount of this acid, and is some less than that stated. If the ram when a considerable quantity of tops is consumed, it is very likely to produce after the first of April, which is a good may die very quickly from paralysis of time to have the lambs begin to come. time to have the lambs begin to come, the heart, or they may show great de- Worth \$3 to \$5 ton over other Meals. pression and diarrhoea and live for several days, or even recover.

The other cause is mold, which grows damp weather. Anything moldy is dan-Such is poor practice as the ram should gerous as a food, but moldy tops and have some rest and grain feed each day, moldy beets are especially so. The tops It is a better plan to get the flock in a that are dry, or nearly so, are really roomy shed or yard at night, where they safer. In Northern Colorado a great can be easily got to early in the morning. many animals are lost every year from Put some paint or lamp black on the feeding on the tops, and, as a rule, wet

Feed in moderation. When in good conand the ewes that are in heat will gen- dition, however, the tops save feed; but when given in too large quantities, when moldy, they do a great deal of



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WHAT HORSE TRAINING IS.

Training horses is so fixing habits that are suitable to man's use, that these ac- irritation. the thing which frightened it, it took natural inclination to run.

do not reason, and that their actions are most stylish and useful of all disposithe result of instinct and following the tions line of least resistance, we must come to the conclusion that, to the horse, his actions are neither good nor bad. He acts instinctively and for self protection, and from the same place at the top of the when his actions coincide with what man head. Its actions belong more to the desires, we call him a good horse, and if sullen type. It will resist in any way a the actions of a horse are not those man horse can, and will do it with but little most desires, we call him a bad horse.

ing that the eye is also watching in all directions.

This horse is ready to act at the least Some unfamiliar object or quired habits are stronger than the natu- sudden racket, or a slight touch upon For instance, you have a some part of its body, that is not accushorse that is nervous and frightens at tomed to being touched, is sufficient to chiects, its natural inclination being to start it. Its fight will be quick and hard, get away from that thing as quickly as It will resist principally by kicking and possible. Maybe in getting away from bucking. Unless overpowered, it will not cease until it is entirely free. buggy and occupants along with it, and treatment with a horse of this disposition smashed things up in general. When a only makes it more fearful and vicious. horse is well trained he may look at the It takes positive treatment; but one who object and tremble from fear; but the loses his temper has no business handword "Whoa" has been so taught that ling a horse that has been spoiled. It rethe habit to stand is stronger than the quires cool, deliberate judgment to handle horses. If treated kindly and judiciously, When it is fully understood that horses this type of horse becomes one of the

Another head of a far different character is the one with a small eye set back in a heavy jowl, and the ears coming or slight provocation. He principally de-Man's place in training a horse is to pends upon balking and usually kicks guide his actions in such a way as to with one foot at a time while balking. avoid the wrong and make it easy to do He will fight slow, but keep at it a long the right, and then, by repetition, so fix time. When once he gets "set," any the desired act, that by word or signal abuse will only fix him more firmly in from the master, the action that has be- his stubbornness. His mind is sluggish



Grand Champion Oxford Down Ewe at West Michigan Fair, Shown by Miller and Geo. Spillane.

low as naturally as the instinctive habits others. common to the horse

Character Shown in Face.

Just as a student in human nature traits of his character. I have never atknowing what I had to contend with.

whether disposition can be told by the crowd. contour of the head.

a kind disposition and will obey work of training intelligently. willingly without being easily aroused. its life and fight hard.

Another type that may be easily identistantly with nervous twitchings, indicat-

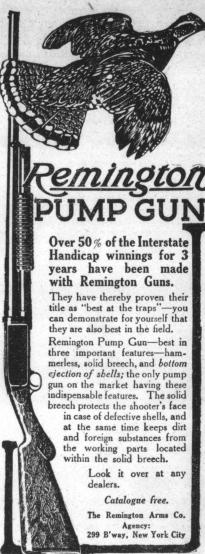
come a habit through repetition will fol- and he fails to comprehenl as quickly as When the least confused his mind becomes inactive and any irritation only brings out his, anger.

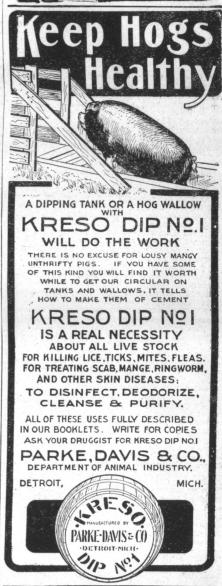
His condition of mind resembles some sizes up the man by his facial and other what that of a boy who attempts to make outward appearances, so ought a horse- his first speech. He begins-makes a man be able to tell, by the contour of a mistake and becomes confused. He behorse's face and head, the predominating gins again-makes a more ludicrous mistake and is more confused. He does this tempted to handle one horse, among the two or three times until he is so confused many thousands handled, without first that he cannot think of anything and simply stands-doesn't know enough to I will describe a few heads and give take his seat. Notwithstanding his conthe predominating traits, that it may help fusion, if the crowd laughs at him he bereaders to judge for themselves comes angry enough to fight the whole

I have space here to make mention of The ideal head is uniform, without any only these three heads. There are only one feature becoming prominent. The a few types of horses with combination head has plenty of space between the of one or more of these types. After a eyes, and from the eyes to the ears. The short study one is able to tell at a glance eyes are large and kind. The ears are the type or combination of types one has good sized and well set on the head, not to deal with, and know to a certainty the being too close together. Such a horse natural propensities and go about his

A horse's disposition must be under-It will be teachable and have life enough stood before any training becomes effecto do its work without continual urging, tive. One is so apt to do the wrong It will never fight, except in extreme thing, or do the right thing at the wrong desperation, and then it would fight for time, which is as fatal to success as to do the wrong thing.

To one interested in horses, nothing is fied is the nervous type. Its eyes are more fascinating than studying the large but fiery. The eye sets well for- horse's mind and be able to take advanward as though it had been pressed for- tage of its many different whims and ward for something at which to scare, turn him from wrong to right habits. To The smoothness of the forehead will be do this, man must be absolute master of broken by creases in front of the eye, himself, even tempered and calm under The ears will be moving almost con- all conditions,







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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 allments. If this column is watched carefully you will probably find the desired information in a reply that has been made to some one else. When reply by mail is requested, it becomes private practice, and a fee of \$1.00 must accompany the letter.

Chronic Wound Soreness.—I have a mare that got caught on wire fence about two months ago; this made the leg sore on fore part of hock joint; the wound healed seemingly fairly well, and the lameness passed away. Three weeks ago she went lame again on the same leg, the limb stocks, the wound is open but our local Vet. tells me the wound is not painful and does not cause any lameness. R. F., Fenton, Mich.—I believe the lameness will subside as soon as the wound is healed, the soreness will leave gradually. Dissolve ¼ lb. acetate of lead, ¼ lb. sulphate zinc and 2 ozs. carbolic acid in one gallon of water and add one pint tincture opium, then apply to wound and stocked leg three times a day. Give a teaspoonful powdered nitrate potash in feed daily for ten days.

pilette six and addone put the tree only the content of the conten

worms in the bowels. I also found the liver had several yellow specks in it. Their bowels act too free. M. O., Altona, Mich.—Give each turkey 5 grs. powdered sulphate iron, 10 grs. powdered kamala at a dose in feed once a day for a week. Also give one-eighth of a grain of calomel—one dose every two weeks.

Sprained Fetlock Joint.—I have a three-year-old colt that fell some three weeks ago and sprained his ankle joint. He soon recovered from the lameness and the swelling left his leg, but a wind puff was left which caused no soreness. Lately his leg has swollen badly and I would like to know what can be done to relieve him. W. H. R., Parkville, Mich.—Give him a teaspoonful of powdered nitrate potash at a dose in feed daily for 10 days, also bandage leg in cotton after applying equal parts alcohol and warm water, twice daily.

Barrenness.—I have a cow that came

at a dose in feed daily for 10 days, also bandage leg in cotton after applying equal parts alcohol and warm water, twice daily.

Barrenness.—I have a cow that came fresh June 25. She seemed to get along all right and she has failed to get with calf. We have had her served on the following dates: Aug, 10, Sept. 8-19, and again on Oct. 9. She calved when out in lot, therefore I am unable to state whether she cleaned properly or not. She has never had any discharge since calving. I am anxious to get her with calf. I also have a nice two-year-old grade helfer that has never been in heat and having noticed in The Farmer about the yeast treatment I would like to know if it should be applied on this cow. C. & S. Fruitport, Mich.—Dissolve ¼ lb. bicarbonate soda in one gallon clean tepid water and wash out vagina once a day until she comes in heat, then she might get with calf. Give the heifer 15 grs. powdered cantharides at a dose in feed twice a day for 15 days.

Bruised Udder.—I have a cow that gives bloody milk from both back teats daily for a few days, then seems to be all right for a week, then gives bloody milk again for a few days. W. S. F., Battle Creek, Mich.—Your cow bruises her udder in some manner and if you can ascertain the cause and remove it she will soon get well. Dissolve ¼ lb. sugar of lead in a gallon of water, adding one pint tincture of arnica and apply to udder three times daily.

Abscess on Udder.—I have a cow that has a sore snot on side of udder. This

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FERRETS.



THE HENS' VACATION SEASON.

average hen takes her vacation. Now a months. long vacation is too expensive for her owner. Her few short years of life should be ones of usefulness. So it should be our endeavor to curtail this vacation as much as possible.

As the nights grow longer and cooler feed more heat-producing food-mainly Don't shell it for they need the exercise, and shelling new corn gives them lots of it and it is a more satisfactory form of exercise than scratching up a favorite flower bed.

It is a good time to "clean house" and put in brand new nests with nice, clean, short straw. I sometimes think that Biddy possesses many of the natural instincts of her sex, and one of them is in regard to housecleaning. With what interest and curiosity she will peer around and watch you as you work about the hen yard. It seems to give the hens added interest in their "business" to see us start something in the yard.

I firmly believe that nests should be changed about at least every four months. seems to be a hen's instinct to lay about so many eggs in a place and then, if she is broody, she will set, even if it be on a snowball at Christmas time. If not broody she is apt to take a rest. I find that changing the location of the nest quite often breaks up the hen's cal-culations. Hens get in "ruts," too.

Are your henhouses warm or are there cracks in the walls? Fill up the cracks, except one in the roof. As you value your flock, don't neglect proper ventilation. I had sooner my fowls roosted on the fence or in the tree tops all winter than in a poorly ventilated house. would be sure that all that lived through the winter would be free from disease at least.

Feed the laying hens regularly. Don't be generous one day and starve them the method on her pig to secure streaked

It is a practice which, once begun, has to be kept up. Keep trying something new. to, at least, keeps us from getting stale, and so long as we do not allow ourselves be apt to.

Isabella Co.

W. J. COOPER.

POULTRY FOR HOME USE.

Whatever the pros and cons of poultry raising for profit, the question of whether it pays to keep enough hens to insure fresh eggs for the table and plenty of feeding is deferred until cool weather has young chickens for the frying pan can set in the syrun will of necessity have always be answered in the affirmative. It pays first from the standpoint of dollars and cents, and second from that of health. For young children and aged people eggs are much better, as an article enjoy better health if eggs are eaten at least once a day than if meats are served three times.

building at least ten feet by twelve, with bees lightly with sugar syrup flavored large windows and high walls, should be with peppermint, and placing the frames provided for a stormy day home. It has from the old hives, with adhering bees, been demonstrated that, given plenty of alternately in a fresh hive. The stronger small quarters and convert all food stuffs pears strange, but it is quite true. into eggs. For sunny winter days there on the north and a roof of boards. This bees and incite robbing. I will describe roof should be not more than three feet a simple device: After the syrup has above the ground, and under it the fowls been made, pour it into . nary jar, find shelter from the winds.

taken. When potatoes are gathered in side down on top of the brood frames. thoroughly cooled. Good bone meal is a even getting their feet wet, desirable addition to the winter's feed New Jersey.

and should be given with the morning Whole corn is an excellent evening feed in cold weather as it furnishes more heat than any other grain.

Warmth, plenty of feed and clean water given so often that the fowls need never drink ice water, a little grit, charcoal, There will be fewer eggs laid during broken oyster shells, table scraps, and the next hundred days than at any other bone meal will work wonders in the way period of the year, this being the time the of filling the egg basket during the cold

> New York. L. M. THORNTON.

MARKINGS OF THE R. I. RED.

To settle an argument will you kindly tell me whether thoroughbred R. C. R. I. Red cockerels have black feathers in tail. Please describe the markings of this breed tail. Flease this breed. Cheboygan Co.

Mrs. A. E. B. The main tail feathers in the R. I. Red male are black, but shade to red in the undercolor. For a full and accurate description of the standard requirements of this breed, as regards both plumage and conformation in the male and the female, suggest that you write Secretary Campbell, of the American Poultry Association, at Mansfield, O. Better still, secure a copy of the Standard of Perfec-This book is issued by the American Poultry Association and contains a detailed description of each and every recognized standard breed. It is the guide of all poultry judges when scoring fowls at high-class poultry shows and should be in the library of every breeder who desires to give attention to fancy points, or to make his flock conform as closely as possible to standard requirements Some rather important changes, touching nearly all breeds, were made at the 1909 meeting of the American Poultry Association, so that the latest edition of the Standard of Perfection is the only reliable source of the information you request. The contents of the volume are covered by copyright, so that we are not at liberty to reproduce any part of them. The book may, however, be ordered through

FEEDING BEES THEIR WINTER STORES.

the Michigan Farmer.

Colonies which are to winter on their next, for it will not bring the good results summer stands require anywhere from 20 aimed at by the old lady who used this to 30 lbs. of good food for successful wintering. A little in excess of this amount will do no harm but, on the contrary, will I don't think it good practice to feed stimulate the colony in building up faster much hot food except on very cold days. the following spring. If one has on hand some sealed combs of honey, a few of them can be distributed among the light not neglecting the old proved colonies, but in the absence of these it methods, it gives an interest and stimu- will be necessary to feed liquid honey or lus to the work. Originating, or trying a syrup made of sugar and water. Use a good grade of granulated sugar. When bees can fly all the time you can safely to reach that condition the flock will not feed them anything. But when they cannot fly, there is nothing better sealed honey. When you cannot have that, use a syrup of granulated sugar.

If the feeding can be attended to while the weather is still moderately warm, the syrup need not be quite so thick, say about 2 lbs. of sugar to a pint of water, which will make 3 lbs. of syrup. If the set in, the syrup will, of necessity, have to be somewhat thicker, for the bees will not be able to evaporate the superfluous water out of it. In making the syrup be careful not to burn it; just pour the boiling water over the sugar and stir until of food, than meats, and any family will thoroughly dissolved; when cool it is ready to give to the bees.

If there are weak colonies unite two or more, retaining the most valuable queen. Twenty hens should furnish enough To unite, shake both lots on a cloth and eggs for the average family the year let them run together into an empty hive around if proper care is given them in where they had better remain until eve-winter. First, never allow hens free ning. Then shake them in front of a range during the three winter months of hive that has been properly prepared for December, January and February. Bet- wintering. Peace in such a united colter too little range than too much. A ony may be insured by sprinkling the straw in which to scratch for their break- the colony and the bees, the less honey fasts and dinners, hens can be kept in consumed during the winter. This ap-

Any method of feeding may be followed should be a park with a tight board fence which does not expose the feed to other cover with a single thickness of cheese-Feed as many kinds of grain as your cloth and tie with a string around the farm raises. The fowls will appreciate neck of the jar. Now invert on top of it the change and repay you for the trouble a breakfast plate and turn the whole upthe fall save all small ones and cook these The syrup will ooze out as fast as the for the hens during the winter, being bees sip it up, and no faster. There is no careful not to feed them until they are danger of bees drowning in the liquid or

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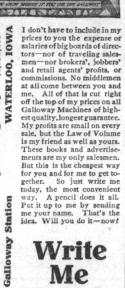
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TREATING THE COW'S DIGESTIVE SYSTEM.

A common weakness with the average dairyman is his inability to treat common digestive disorders that are likely to occur in any herd. This is all the more regrettable because the very simplest itreatment, namely, the administration of a physic, will overcome most of these disorders. I firmly believe that a proper physic applied at the proper time would be a physic applied at the proper time would be a physic applied at the proper time would be a proper time would be a physic applied at the proper time would be a physic, will overcome most of these disorders. I firmly believe that a proper Wexford Co. H. A. S. physic applied at the proper time would Ensilage can be fed just as soon as you save four-fifths of the usual veterinary expenses

Most of the disorders of the digestive system are the result of injudicious feeding such as overfeeding, feeding too much coarse, indigestible feed, sudden change of feed, too much green clover and alfalfa, irregularities in feeding and the use of stale, moldy, frosted or decomposing feeds.

Digestive disorders usually manifest themselves in loss of appetite, suspended rumination, dull, sickly eyes, or constipation. At the first signs of illness, give a mixture of one to one and one-half pounds of epsom salts and one to two ounces of ginger dissolved in a quart of warm water; or give one to two pints of raw linseed oil, according to the degree of constipation. Other physic may be given, such as one pound of Glauber's salts dissolved in water, or one pint of castor oil.

Physics should be given from long-necked bottles, and a necessary precaution to observe is not to hold the cow's head too active decay of the ensilage is over, then high because under such conditions the animal cannot swallow and the material will run into the lungs, with serious consequences.

water freely and feed light rations containing laxative feeds such meal, pasture, roots, silage, etc.

small moment, but, if neglected, we know that it may become the forerunner of numerous serious diseases, hence the importance of applying a physic promptly, for a feed. Salts and raw linseed oil must always be kept on hand ready for instant use. Trouble from overfeeding must have immediate attention and there is no time to meal should also be found in all wellregulated dairy barns. This feed has tonic and laxative properties and, if fed fair grounds at Detroit, Oct. 20.

There is one peculiar digestive trouble this is bloat (hoven) caused commonly by died. bloat. This trouble manifests itself by a give an ounce of spirits of turpentine and after this third successful sale by the a trocar. Tap at a point equidistant from the point of the hip, the last rib, and the spinal column.

and blighting effect which this has upon the future cow is too little appreciated by dairymen. As suggested in a previous article, this trouble can be entirely pre-

the milk one-half and adding six drops of formalin to it. In severe cases add eight or nine drops. One or two feeds of milk treated with formalin will usually stop scouring completely.

Wisconsin. JOHN MICHELS.

HOW SOON AFTER FILLING SILO SHOULD ENSILAGE BE FED?

are through filling the silo, but it is better and the cows like the ensilage better if you will wait three or four weeks, until after the rapid fermentation of the corn has ceased. When the corn is undergoing a very rapid fermentation and is quite hot, the cows do not like the ensilage as well, but they will eat it. I had to go to feeding immediately after filling the silo, and if you will take pains to tramp the ensilage down so as to keep the top down tight, as tight as possible, you can feed without any loss of the ensilage. Where the silo is left for a month or so after filling, some of it on top will rot or decay and has to be thrown off and discarded, but the ensilage immediately under this decayed portion is of better quality than the ensilage you feed from the top when the silo is in the active stage of fermen-

tation, and the cows like it better. So I would simply recommend that you do not

feed for a month. Reep the silo well

after filling, then wait a month till the

your ensilage is ready to feed. The average cow will eat about 30 or 35 pounds of ensilage per day, or about In case of indigestion, always supply an ordinary bushel basket full, night and morning, and this is the amount usually In feeding ensilage you want to take a thin layer off the top, entirely over the Ordinary indigestion, if promptly treat- surface of the silo for each feed. Don't ed as above suggested, is a matter of dig holes in the silo, fork it up, or loosen it up, because the air gets in and the ensilage deteriorates in value. So rake or fork off the top a shallow layer sufficient

ANOTHER SUCCESSFUL SALE.

Breeders of Michigan will be happy to run to the store for a physic. Linseed learn the results of the third annual sale of cattle consigned by Holstein-Friesian breeders of the state, held at the state as soon as cows show an off-feed condi- men offering consignments at the sale tion, may bring relief without resort to last year were well pleased with the outcome, according to the record of that By the way, linseed meal is also one of sale, and, based upon that ground, the the best milk-producers we have, and consignors to this year's auction must be while rather high-priced as a milk feed, exceedingly happy for with 37 animals its tonic laxative properties should justify less they received within a thousand dolfeeding small amounts of this feed as a lars of the amount of the sales a year part of the daily ration. Indeed, during ago-the amount of the sales this year the winter, where no silage or roots are being \$18,210. There were 110 animals of available, the feeding of a few pounds of which 94 were cows and the remainder linseed meal a day to all heavy producers calves and young bulls. The average is strongly recommended. It should also price for the whole lot was \$165.64 as be fed to cows just before and after calv- compared with \$131, the average price ing. In fact, it will pay to feed cows paid last year. The highest priced anisome linseed meal one or two weeks be- mal went this year for \$400 while last year \$380 was the best figure. Five cows went for \$300 or more this year and four which requires a treatment of its own; sold for that figure and above last year. Twerty-three of the animals sold bechanging cows suddenly from dry feed or tween \$200 and \$300 while in the previous scant pasture to rich, luxuriant clover or sale 13 went at prices rang' g between alfalfa pasture. A great many cows in these limits. But two of the females sold my section were affected with bloat the for less than a hundred dollars. The avpresent summer and not a few of them erage for the cows this year was \$178.62, With proper attention, however, for the calves and young bulls \$95, and there is no danger of cows dying from for the whole herd \$165.64. A good attendance of buyers was there and compeswelling of the left side or paunch. As tition in the bidding was such as to get soon as the bloating is noticed, place a the prices at which the animals were gag in the cow's mouth and in mild cases "struck off." It is most certain that one-half pint of raw linseed oil. Keep breeders of the Black-and-White dairy the animal moving and pour cold water, animals the feature will become an anon the loins. When relief comes give a nual event toward which breeders and physic. In severe cases, tap the left side dairymen of the country will look as a (paunch) with a slender knife or better, place to get animals for building up their herds. The plan is an economical one both from the viewpoint of the seller and the buyer. In a single trip a buyer can see a large number of animals to choose One of the most ruinous digestive dis- see a large number of animals to choose turbances is calf scours. The dwarfing from which enables him to buy more intelligently and with less expense. The seller, on the other hand, has the privilege of showing to a large number of buyers and thus is in position to get his vented; but when it does occur it should product to the man who wants just such vented; but when it does occur it should be checked as promptly as possible. In an animal. In all, it is a method of disand information to the VETERINARY COLLEGE, Department B, Grand Rapids, Michigan.

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THE CREAMERY BUTTERMAKER.

I am interested in learning the creamery business and particularly the buttermaking work, as I understand it to be a good paying work and good chances for a position. I do not know very much about the work in a creamery and want to get some reliable information in regard to it. Can you suggest some place or way by which I can get the information I want? Would you advise going into a creamery to work, or going to the M. A. C. and take a course in creamery work? What do you think of the present outlook of the creamery business in Michigan and what are the chances of getting a position at this work if one goes at it and learns to do it thoroughly?

Leelangu Co.

G. M. L.

The creamery business in Michigan is

on a solid foundation. There is no doubt around the side, to plumb another one, The creamery business in Michigan is but what there will always be creameries. It is the only practical way of making butter and in all of the better dairy sections, practically no butter is made on the farm any more, all being manufactured at the creamery. into the habit of having it made in the farm buttermaking. Consequently the studding. When you get through lathing creamery, they will never go back to creamery buttermakers will always have a job. Not only that, but better buttermakers are being demanded year after year. The creamery buttermaker can no longer make butter by the rule of thumb. He must know his business and know it thoroughly if he holds his job and gets good wages. If he does know it thoroughly, there is no trouble in getting a good position at good wages. The salfrom \$75 a month to \$100 a month and in to rot the studding. They make a very aries of creamery buttermakers varies up to \$150 a month, depending, of course, upon his skill, and upon the amount of on than the common clapboards. business which he does. A small creamery cannot afford to pay so much. A large creamery can afford to pay what a man is worth. Many times the buttermaker also acts as manager of the creamery and when he combines the work of and buttermaker, or in other words, when a man can use his head and his hands at the same time, he can command a large salary. There is little difficulty for the expert buttermaker to get this business to get a good position. But he must understand his business.

The Michigan Agricultural College has an excellent creamery course. One can-not hope to be a first-class buttermaker unless he takes this course, or a similar one, but a man who has never worked in a creamery will never get as much good out of this course as one who has. You must have had some experience in order to get the most out of the short course 2x8's across the center of the silo and at M. A. C. As a matter of fact, the col- toe nail them. Then, on either side of lege will not grant a diploma to a butter- the 2x8's, and about four feet from them, maker unless he has had some actual ex- use 2x6's, and then three or four feet perience in a creamery. Take a man who from them, depending upon the diameter has never given the subject of creamery of your silo, I would put a 2x4. Then put buttermaking and creamery management on roof boards and nail them to these any thought, and it would be almost im- joists over the top of the silo. Put some possible for him to take this course and then be able to manage a creamery and Now you have left an opening clear across make the butter. He ought to have had the silo through the center three feet one or two years in practical work in a wide. Put 2x6's above this and toe nail it. Of course, one can learn to be a but- the cap in sections so that it can be re the only practical way to get a good which is just what he wants. course of information in creamery butterkind of a position, is first to work in a creamery, begin at the bottom and do all the different kinds of work required. Learn to operate the machinery under the instruction of an experienced man and after you have learned to do all of this, get the scientific part of it. Then, kind of a position in a public creamery.

TERED SILO.

Can you tell me where to send to get taller on rich land. Select a rather late variety of corn for your neighborhood plastered silo? Have recently moved and the back numbers of The Farmer have been lost or destroyed. I plan to build in the spring and wish to do what is possible towards getting ready this winter. Hillsdale Co.

There are lated that will grow taller on rich land. Select a rather late variety of corn for your neighborhood rather than an early-maturing corn for silage, and plant it thick.

FACTS ABOUT CANCER.

I have explained a number of times in the Michigan Farmer how to build a lath atorium of Indianapolis, Indiana, contains and plastered silo, and it would be a interesting information about the cause good plan for R. G. W. to file his Mich- of cancer. It tells what to Go for pain, igan Farmers. If he doesn't want to get bleeding, odor, etc., and advises how to them bound, he can punch holes through care for the patient. The booklet is sent and tie them with a tape. Then, with the free to those interested who write for it, index which is gotten out every six mentioning this paper.

months, it is easy to turn back to any article wanted.

A trench should be dug one and onehalf to two feet deep to get down below the frost and give a solid foundation. Fill this with grout and stones, and build a grout wall a foot above the ground. This will preserve the sills and siding of the Now make a circular sill. silo. this out of inch lumber and double it so to clap over the cracks, nailing together with eight-penny nails. Then on the circular sill set up your studding. Set up the first studding, toe nail it and stay lath it, then you can set your other stud-ding with this. It will be better, however, when you get quarter of the way and so on, to keep them perfect. Now lath on the inside with patent board lath. The lath is made out of six-inch matched lumber by having grooves cut in the board so that it will hold the cement. When people once get For a silo of ordinary diameter you cannot spring this lath around but have to saw it so that you can nail onto each you really have your silo sheeted on the inside with matched lumber. Now plaster from top to bottom with good Portland cement by mixing the cement with fine, sharp sand, two parts sand and one part cement. On the inside you can use common clapboards, or you can get inch boards split into half-inch stuff and use this. Get them jointed and set the boards down tight together. They will be sufficiently tight so that moisture can not get good siding and are much more easily put To make the doors into the silo, lath the

first three feet from the bottom, then skip an opening of three feet, and then lath across again for three feet and then skim another opening, and so on. The same way in clapboarding. This will give you a succession of doors from top to bottom of the silo every three feet apart. Now frame in these openings just as you would a window in a barn. Set the studding so that the door will be a little wider good job and hold it, and there never on the inside toward the center of the will be any trouble for a good man in silo than it is on the outside. Then after the opening is cased, make a door by dcuble-boarding with tarred paper tween and then allow for size so that they will just fit into this cased opening and come even with the inside after it is plastered. Then back of door put stops around so that it cannot press outward. Now the door can only be taken out on the inside and cannot go through.

Now for the roof on the silo, put two kind of roofing paper on the roof boards. creamery, before he finishes this course, them to the 2x8's. Make a cap that will Then he can get all the good there is in fit down over the 2x6's. You can have termaker by simply working in a cream-moved. When you wish to fill the silo, ery and getting his information by actual the cap is removed and the carrier of the experience from an experienced butter- ensilage cutter is placed to one end of maker, and this kind of a buttermaker is this opening. With this kind of a roof, which is inexpensive compared with a a better man than one who simply has which is inexpensive compared with a the theory without the practice. But a shingle roof, or with circular or eightman is not well equipped until he has sided roof, a man can really walk right both the theory and practice. Therefore out of the silo and fill it full of corn,

If you build a very high silo, use 2x6 making, one that will fit one for the best studding and put on a few hoops made of band iron under the clapboards.

The kind of corn to raise for ensilage is a question with many dairymen. I have some corn this year that is perfectly matured, and yet some of it is 121/2 feet high. A rather late variety of corn that if you are made of the right kind of will mature in ordinary years, is what is stuff, you are qualified to hold the best wanted for ensilage. Not the early kinds of corn that has been bred to produce ears rather than stocks HOW TO BUILD A LATH AND PLAS. ing corn, of course, is bred to have short stubby stalks and big ears. What we want for ensilage is a kind that will grow

A booklet published by the Leach San-



Give Your Cows a Square Deal

What would you think of a farmer who would thresh his grain with a machine that would carry off one bushel in every four with the chaff?

Wouldn't think much of his judgment, would you?

Then what do you think of a man who still skims milk by the old-fashioned "setting" system and loses about one pound of cream in every four?

Any creameryman will tell you that with a

Cream Separator

you can get as much cream from three cows as you can from four by any gravity setting process, and besides, you will have nice, fresh, sweet milk to feed to your calves.

Ask us to prove it. Try a DE LAVAL at our expense. Write for particulars about our free trial plan.

THE DE LAVAL SEPARATOR CO.

NEW YORK 178-177 WILL AM STREET MONTREAL

42 E. MADISON STREET CHICAGO 14 & 18 PRINCESS STREET

SAN FRANCISCO SEATTLE



Something You Should Know

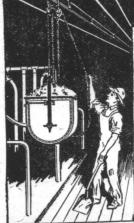
For 38 years GARLAND Stoves and Ranges have had the greatest sale of any stoves and ranges in the world. The line comprises Stoves and Ranges, Furnaces, Gas Ranges and Appliances. The GARLAND costs you no more than stoves and ranges of inferior grade. Secure the World's Best.

Write us for Free book and choice recipes, which will be mailed to you on receipt of your request. Ask your dealer to show you

GARLAND Stoves and Ranges BAKE WELL! COOK WELL! HEAT WELL! THEREFORE, ALL'S WELL!

Furnaces, Gas Ranges and Appliances Sold by Leading Dealers All Over the World

The Michigan Stove Company Largest Makers of Stoves and Ranges in the World Chicago



asy For The Boy

A LOUDEN LITTER CARRIER changes barn drudgery into child's play.

With wonderful worm gear (an exclusive Louden feature) 1 pound
pull on chain lifts 40 pounds in box—boy can hoist half a ton.

Raises and lowers any distance up to 25 feet, Stands where put; can't
fall. Fill the box, raise it and give it a shove. It carries the load out of
the barn to manure spreader or litter heap, wherever you want it; dumps
load automatically and returns to you.

The Louden Way

Keeps barns clean and sanitary—Keeps cows healthy—they will give more and richer milk, Saves time, labor and money. A Louden Litter, Carrier will save its cost many times in a year.

Loudens special electro-galvanizing process gives all Louden products a beautiful, lasting finish. Looks clean—easy to keep clean—never rusts—lasts much longer than ordinary hot process galvanizing. Our 40 years experience in fitting barns is at your service for the asking. Hand your dealer a rough ground plan of your barn, and ask him to mail its to user of riche. This will entail no obligation either on your part or the control of t LOUDEN MACHINERY CO., 603 Broadway, Fairfield, Iowa,

TEST AN IMPERIAL 30 DAYS
IN YOUR OWN HOME AT OUR RISK

Has EXCLUSIVE FEATURES not on any other range such as:
Odor Hood—Carries all steam and odors from cooking to chimney.
Ash Sifter—Permits sifting ashes right in range. No dust.
Oven Thermometer—Tells exact temperature of oven. No guesswork.
Stone Oven Bottom—Absorbs and holds heat in oven; a fuel saver.
This is the Old Dutch Oven brought back to life, and restored in our Perfect Imperial. Direct from factory to you at Wholesale Price. Easy credit terms if wanted. Freight Prepaid. 365 Days Guarantee. Write to-day for Free Catalogue and Special Prices. THE IMPERIAL STEEL RANGE Co., 230 State St., Cleveland, Ohio.

ESTABLISHED 1843.

THE LAWRENCE PUBLISHING CO.,

EDITORS AND PROPRIETORS. Congress Street West, Detroit, Michigan. TELEPHONE MAIN 4525

New York Office—41 Park Row. Chicago Office—600 First Nat'l. Bank Building. Cleveland Office—1011-4015 Oregon Ave., N. E. Grand Rafids Office—5 & 6 New HawkinsiBuilding.

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L. LAWRENCE Vice-President.
H. HOUGHTON Sec.-Treas. WATERBURY......YOUNG..... BURT WERMUTH.....ALTA LAWSON LITTELL..... E. H. HOUGHTON......Business Manager

TERMS OF SUBSCRIPTION:

Five Years 260 Copies Postpaid Three Years, 156 Copies, Postpaid. \$1.50
One Year, 52 copies, postpaid 75 ctsSix Months. 26 copies, postpaid 40
Canadian subscriptions 50 cents a year extra for postage.

Always send money by draft, postoffice money order, registered letter, or by express. We will not be responsible for money sent in letters. Address all communications to, and make all drafts, checks and postoffice orders payable to, the Lawrence Publishing Co.

RATES OF ADVERTISING:

40 cents per line agate measurement, or \$5.60 per inch, each insertion, with reasonable discount on orders amounting to \$20 or over. No adv't inserted for less than \$1.20 per insertion.

6.7 No lottery, quack doctor or swindling advertisements inserted at any price.

Entered as second class matter at the Detroit, Michigan, postoffice.

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WE GUARANTEE to stop THE MICHIGAN FARMER Immediately upon expiration of time subscribed for, and we will pay all expenses for defending any suit, brought against any subscriber to The Michigan Farmer by the publisher of any farm paper, which has been sent after the time ordered has expired, providing due notice is sent to us, before suit is started.

is started.

Avoid further trouble, by refusing to subscribe for any farm paper which does not print, in each issue, a definite guarantee to stop on expiration of subscription.

The Lawrence Pub. Co.,

Detroit, Mich.

DETROIT, OCT. 29, 1910.

ADVERTISEMENTS.

Did you ever stop to think that there is a liberal education in the advertisements that appear in a modern periodical? This is an age of advertising. An article can not be successfully placed upon the market—generally speaking—without good advertising; that is its introduction to the public. If you will think back a little you will recall the many pieces of first news that you have gained through the advertising columns-new machines, new devices, new breeds, new lands, new styles, new household conveniences, new places to get the thousand articles that must be bought, and where to get them cheapest or to the best advantage. There are some periodicals published that hold their subscribers almost entirely through their advertising columns, because, by studying these columns, the reader may know what particular article may be had upon the

The fact that a paper carries a large sold. amount of the right kind of advertising is a clear indication that it has the confidence and respect of its readers. Otherwise it would not get the orders for the advertisements. The advertising business is now a well-defined cog in the modern impersonal and representing the sentiindustrial machine. Probably 90 per cent of the advertising is placed by men who are not satisfied with the present market do nothing else than handle this business for the men or firms who sell the goods. These agencies make it their business to investigate carefully the standing of all of the agricultural papers, for instance, and then place the advertisements where they know they will do the most good to the merchants or manufacturers. It is to make the advertising agency to make the advertising agency to make the advertising agency to make the advertisements yield the greatest new scheme for swindling farmers. The class farmers and are reasonable to posterization machines have control of the manufacturing of pasteurization machines have control of the manufacturing of pasteurization machines and are reasonable to posterization machines and are reasonable to posterize their to be scheme for swindling farmers. The class farmers are states have control of the manufacturing of pasteurization machines and are reasonable to posteri the doption in all large cit

the reason, perhaps, that he thinks a good one, as maintained in the comment above posters which he claims will bring other

is for sale.

tion or inconsistency; nothing will supand clean, and that our advertisers are of sections of the state.

sign a paper which reads "value resafe people to deal with. Patronize them Just a word to that great class of peoceived," when they haven't a scrap of and they will give you square treatment. ple who, in common with the writer of anything yet to show for it. Read the advertisements, even if you are that will be invaluable to you.

CURRENT COMMENT.

upon the subject introduced in this letter. The text of the subscriber's letter is as follows:

I have just read your comments about the potato crop and it is enough to make a farmer swear. Why don't you tell farmers that the reason potatoes are nearly worthless is because a gang of thieves are robbing the farmers; and that when all the poor fellows who must have money are sold out and they can steal price for those they must have. If your paper would help farmers to get a price for their goods, and quit telling them what they already know, (how to raise better crops), there would be some sense in it. Why don't you help the farmers to organize or get markets or something that would be of some use to them? I have been taking your paper for the best part of 15 years and I wish you would help us in a way that would amount to something. As it is, if the frost took one-half of the potato crop, or fire took half of the wheat, or murrain killed half of the cattle the average farmer would be better off. Again I say, why don't you expose the trusts. Denounce the thieves who are holding up the farmers, get some legislation to put the scoundrels in jail or on the rock pile.

The comment above referred to was one which the conditions of the potato I have just read your comments about

The comment above referred to was same were presented to the readers of The Farmer, to aid them as much as possible in arriving at correct conclusions to when the potato crop should be

The writer of this letter is one of a ter what he says will be considered as the fire." ments of a large class of producers who conditions who have come to believe that Editor Michigan Farmer: they are being systematically robbed by

the reason, perhaps, that he thinks a good one, as maintained in the comment above posters which he claims will bring other article will sell itself and therefore does referred to, let us recall the conditions farmers to his place to see the sample in Sea about 16 miles from Naples, was not need to be advertised. Such opinions of a year ago when many of these same operation.

are incorrect, as no matter how good, or potato dealers stored the tubers at a fair The Michigan Farmer how necessary, an article may be, people price, only to be compelled to sell them dispose of them like hot cakes and clear will not buy it unless they know that it later on a lower market, an experience one dollar on each set. which they, apparently, have not forgot-We know that, by the majority of our ten. Not that we would maintain that to him that he is entitled to some sort of readers, the Michigan Farmer advertising present market conditions are all that guarantee of good faith on the part of columns are considered as guides to buy- might be desired. Undoubtedly the cost his agent. "How would a contract note ing. They have faith in the advertise- of distribution is altogether too high and be? Said note to be held until final set-ments because they know that they are the producer does not get as much of the tlement of the deal. All stock remaining carefully edited and that we are very consumer's dollar as he is entitled to, unsold at the end of six months would be careful to exclude from our columns ad- but in this case instead of a trust being taken back at cost and the agent given vertisements that should not go into the to blame it may be attributed to an en- credit on the note." home, or which are displaying a fraudu-tire lack of organization. The writer of Almost anyone having gone thus far lent article. The only way that we can this letter asks why we don't help the would not hesitate to sign this "security management for nearly twenty years. It community production for their own benport real success except the solid rock of co-operative organizations have already should bear no interest. reliability and fair dealing. This foun-been effected and more are being promot. The most remarkable thing about this that our advertising columns are reliable of producers of special crops in a number

> this letter, seem to think that legislation not thinking of making any purchases at is a panacea for every ill. While legislathe time. You will find information there tion is often helpful and necessary for the prevention and punishment of illegal or fraudulent acts, it cannot remedy our own shortcomings nor improve business conditions which affect us, but in which A letter just re- we do not take such an active interest Providence Helps Those ceived from an as to try to remedy for ourselves. If who Help Themselves. old subscriber so the potato growers of Michigan were aptly illustrates properly organized they would be in close the point of view of so many people that touch with the best market for their we are reproducing it here to the end product, and would be able to dispose of that Michigan Farmer readers may think it to the best possible advantage, and a little more deeply and act a little more also to discuss in an intelligent manner logically, both individually and collectue the proper control of marketing the crop. tively, than they have done in the past, The dealers are not to blame for the fact that the bulk of a perishable crop which it will take months to consume is offered upon a weak market right at the beginning of the season, nor can they be blamed for the fall in the prices which results from such a course. That is a factor, however, which would be largely in control of growers were they properly organized, while the profits now made by the local shippers would accrue to the growers, providing their crops were handled through co-operative associations. We are glad the subscriber wrote us in the above vein, and we hope that his letter and the facts in connection with it to which we have called attention will stimulate the potato growers of many sections of the state to action as well as to thought upon this subject. It is of no use whatever to condemn conditions in a general way, as a means of alleviating our misfortunes, neither is it of any benefit to feel that some one else should help us to evade those misfortunes. The Michigan Farmer can not compel its readers to organize, for their own benefit, but one which the conditions of the potato it can and has and will urge them to orcrop and market deductions drawn from ganize and get in a position to do these things for themselves which others can

> not do for them. It is all very well to say that the farmers would be better off if half the products were destroyed, but in practice we would all want it to be the other fellow's large class who have been sorely disap- half. It would be a course more fitting pointed in the condition of the potato to our dignity as business men to get market, and in commenting upon his let- busy and "pull our own chestnuts out of

LOOK OUT FOR THIS SWINDLE.

Dear Sir:-This letter is to explain what the writer of this letter terms a new scheme for swindling farmers. The

make the advertisements yield the greatest returns, just the same as it is the
business of the attorney to advise his
client wisely. Therefore, the large amount
of advertising carried, provided it is highclass advertising, is a good feature of a
paper, rather than a bad one.

Some people still frequently remark that
they do not like this or that paper because it prints too many advertisements.
This statement shows that the speaker is
not a reader of advertisements, and that
he does not place any
the does not place any
the reason, perhaps, that he thinks a good

The reason, perhaps, that he thinks a good

The reason, perhaps, that he thinks a good

The response of the attorney to advise his
tousiness of the attorney to advise his
client wisely. Therefore, the large amount
the wither's deductions are based
to whether the writer's deductions are based to
the reliam Cullen Bryant, Frances E. Willard,
Andrew Jackson, George Bancroft, and
John Lathrop Motley.

In order to secure immunity from prosback Co." His device consists of four
to the 'National Hay Car Drawback Co." His device consists of four
to the with the missing time.

This game is like this: He claims to
work for the "National Hay Car Drawback Co." His device consists of four
to the powerment for goods.

This device consists of four
to the powerment for goods to the work for the wink for the wink for the wink for the wink for the writer's deductions are back to the same a half-inch rope somewhat
to place the the winter's deductions are back to the claims to the winter "Nat

The agent is made to believe he can

Before he leaves, however, it occurs

make our readers retain this faith is by farmers to organize or get markets or note," just as two of my neighbors did. continuing, in the future, our policy of something that would be of some use to They would have paid those notes also, keeping our advertising columns clean them. We have for years urged the amounting to some three hundred dollars and reliable. This we intend to do. This farmers of Michigan, especially the po- and interest, if our local banker had not paper has been published by the same tato growers, to organize along lines of inquired by 'phone if it would be agreeable should he discount them. has built up a patronage and a following efit and advantage. Column after col- the surprise of these inexperienced young that is the envy of every other publisher umn has been devoted to matter pertain- farmers to learn that their notes were in the land. No great success can be ing to such organizations, and we are negotiable; the swindler having detached built upon the frail foundation of decep- glad to note that our efforts in this line the contract and inserted the legal interseem to be bearing fruit as a number of est rate in the note, which was stipulated

dation we have. Our readers are assured ed in the present time in the organization affair is that anyone who has intelligence enough to make farming a success, should

It is safe to predict that whoever has taken this agency, and the crook has

succeeded in selling his note, will never receive any merchandise, however often he may inquire at the freight depot. Who would expect any company (located nowhere, as we can discover, except in the mind of the promoter), to make good its promise to anybody who held so loose a string on their wealth as that?

Wayne Co. J. W. ROMINE.

HAPPENINGS OF THE WEEK.

National.

National,

The balloon America II which started in the international race from St. Louis, October 15, has not been found. It is believed to have landed somewhere in the wilderness of Canada north of the Great Lakes or east of James Bay. Searching parties have been sent out to locate the balloon and her occupants if possible. Who is winner of the race cannot be determined until the last balloon has been located, but two of the craft are already know to have made new records, having flown over 1,200 miles.

A spectacle, never before seen in America, was the witnessing of ten aeroplanes in the air at once at Belmont Park, New York, Monday, where aviators are giving performances. On the same day Drexel took his flyer 7,100 feet into the air, thereby making a new American record for high flying.

The deficit in the postoffice department for the year ending June 30, was \$11,500,000 less than for the previous year. While changes in the department have resulted in economy, better service is also being given. The deficit for the year is \$6,100,000. That this reduction has come with the fast expanding volume of mail makes the showing more surprising.

United States Senator Elkins, of West Virginia, is reported ill at his home in that state.

United States Senator Eikins, or west. Virginia, is reported ill at his home in that state.

In the compilation of the death registration reports of the United States it is shown that of the 210,507 deaths among employed or occupied persons, 14.8 per cent died of tuberculosis, 11.9 per cent from heart disease, 10.5 per cent from accident, 8.5 per cent from Bright's disease, 8 per cent from pneumonia, 7.3 per cent from paralysis and apoplexy, and 2.6 per cent from suicide.

Zion City, founded by the late Alexander Dowle, will take up intensified farming, dairying and poultry raising as the main features of her industrial activity as soon as the title to the property passes to Wilbur Glenn Oliva the new leader. No more manufacturing plants will be established.

The charge made by dairymen that a

established.

The charge made by dairymen that a "milk trust" exists to their detriment has reached the department of justice at Washington and an investigation has been ordered by Attorney General Wickersham. Among the allegations of the dairymen is the charge that certain interests have control of the manufacturing of pasteurization machines and are

The loss of property is not known. The first reports indicated a heavy loss of life but it was later learned that the victims were few.

first reports indicated a heavy loss of life but it was later learned that the victims were few.

A hurricane swept over the eastern coast of the Baltic sea demoralizing shipping interests and destroying many lives among sailors. On the shores long lines of houses were blown to the ground.

A petition signed by American delegates to the international good roads congress in session at Brussels where 26 countries have representatives discussing issues pertaining to the road question, was received at Washington asking this government to join the movement.

In order to properly handle the large farming lands recently occupied by immigrants and others, the farmers of western Canada are making a strong demand upon their government to arrange for free trade relations with the United States that they might get farm machinery to equip their farms.

The work of restoring the campanile or tower of St. Marks at Venice, which fell in 1902 after standing for 1,014 years, will soon be completed.

The Russian government has inaugurated improvements to her domestic transportation facilities which promise to solve some of the imposing economic problems of the great country. A canal planned to connect the Drina and Dnieper rivers was begun last week. The former of these streams flows into the Baltic Sea and the other into the Black Sea, which will enable a water course across the country from south to north without going into foreign territory. The plan also contemplates the joining of the Drina with the Volga river, which flows into the Caspian Sea, and thus will afford cheap communication between another great grain producing section and the Baltic region.

CROP AND MARKET NOTES.

Livingston Co., Oct. 22.—The weather thus far in October has been all that could be desired and corn husking is now progressing rapidly. Wheat is looking fine and will go into winter with a large growth. Not nearly as much rye sown as usual owing to the fact that the growth of straw has been so rank in recent years that much difficulty has been encountered in harvesting it. Bean threshing is nearing completion and the yield has been better than was anticipated, averaging about 12 bushels per acre. The fall rains have brought new seeding on in much better shape than was expected. Potatoes yielding well and of very uniform size. The prices paid for farm commodities are very satisfactory for this season of the year.

Genesee Co., Oct. 23.—Continued fine weather interrupted on the 21st by a much needed rain. Although the weather bureau predicted killing frosts they have failed to appear, giving an exceptionally long season. Potato harvest about concluded. Sugar beets now claiming attention with good tonnage. Good roads proposition much discussed at present. County commissioners have asked supervisors for \$40,000 to continue the work another year. Altogether the county has 17 miles in the several townships of gravel or macadam highway.

Eastern Oceana Co., Oct. 18.—Very

Altogether the county has 17 miles in the several townships of gravel or macadam highway.

Eastern Oceana Co., Oct. 18.—Very warm, and dry again. No frost yet; picking ripe tomatoes off the vines today. Everybody busy securing corn, potatoes and beans. The bean threshers report beans turning out around 12 bu. per acre. Potatoes good where the blight did not get in its work. Corn sound and good but ears rather short on account of dry, hot weather in August, will husk from 60 to 80 crates of ears per acre. Sept. 30 the writer cut his fourth crop of alfalfa on part of field, getting about one ton per acre. It is now 8 to 10 inches high. Pasturing the rest to see which will come out the best next year. A good many are going to sow alfalfa in the spring. The potato market started in at 35c here but the farmers glutted it with so many green and rotten potatoes from the fields that were blighted that the market closed entirely for the present or until about Nov. Butter, 25c lb. for dairy; 30c for creamery; eggs. 22c dozen and very scarce; hogs, \$8.50@9; good beef cattle bring 4c; hens, 9c; chickens, 11c.

Mecosta Co., Oct. 19.—We have only had one killing frost so far this fall, and are at present having delightful weather. Farmers are getting along well with their fall work. Many of them have a nice lot of corn husked. Fruit picked and potatoes dug. Potatoes were either exceptionally good or exceptionally poor. They went all the way from 75 bushels sorted, due in most cases to the time they were planted. The early ones set in the dry weather and it stayed so dry that the potatoes were small. Corn is generally a good crop this season. More wheat was sown this fall than usual and less rye. Beans were a good crop and good quality. Clover is well filled. Live stock looks well.

Marion Co., Oct. 22.—The month of October has been warm so far with only a

well filled. Live stock looks well.

Illinois.

Marion Co., Oct. 22.—The month of October has been warm so far with only a light frost to date. Considerable rain the first week, with some damage to corn on bottom land. Wheat all sowed with small acreage. Corn cutting done. Silos filled. Threshing of redtop about all done and bringing a good price, 12c per lb. Not much trading in stock. Several farm sales with good stock bringing good prices. Not many fat hogs on hand, selling at \$8 per cwt; hay, \$12 per ton; eggs. 23c; butter, 25c.

Western Warren Co., Oct. 24.—After an exceedingly hot, dry spell for this time.

Western Warren Co., Oct. 24.—After an exceedingly hot, dry spell for this time of the year rain came on the 18th and lasted for three days, bringing the first two killing frosts on the morning of the 23rd and 24th. Fall wheat all in with a larger acreage than in former years, Pastures short but not dried up. Quite a number of wells gone dry. A good second crop of clover which is threshing out from one to three and a half bushels per acre. Some farmers rushing their hogs to mar-(Continued on page 361).

Are You Going to Build?



NEPONSET PAROID Roofing

for your barns, poultry buildings, etc., gives service equal to that of the highest grade shingles and all buildings requiring an artistic roof or siding. Wears like slate, resists fire, saves money and always gives satisfaction. It may be used on exterior walls in many attractive ways.

Unlike shingles, it resists fire, doesn't blow off or deteriorate. NEPONSET PAROID has been in service for many years on United States Government, Railroad, Industrial and Farm Buildings, in all climates. If it meets these severe conditions, it will surely meet yours.

For such poultry buildings, brooder houses, sheds and temporary buildings as require a low-cost roofing, you should use NEPOWSET RED-ROPE Roofing rather than tarred felts—more satisfactory in every way—it has been the standard low-cost roofing for 25 years.

NEPONSET PROSLATE Roofing and Siding, for residences

These are facts and not claims-write us and we will prove every statement Consult Our Building Counsel Department Tell us the nature of the buildings you propose to erect or repair and we'll send you BIRD NEPONSET PRODUCTS everywhere. If you don't know the one in your locality, write us and we'll tell you.

tions, etc., to deadening felt.

F. W. BIRD & SON, 95 Neponset St., EAST WALPOLE, MASS., U. S. A.

Established 1795. Originators of Complete Ready Roofing and Waterproof Building Paper.

Canadian Factory and Offices: Hamilton, Ont. Winnipeg Montreal St. John



A Blessing to the Farmer's Wife

HE Bell Telephone Service lightens the domestic tasks of the farmer's wife.

In the family circle, the Bell Service is indispensable. It is a constant household companion. It shops for her when she is too busy to go to town. brings her in close touch with the social life of the community. Loved ones far away may be reached, for the Bell field is almost limitless. It relieves the monotony of life. She cannot be lonesome with the Bell Service at her command. It is a constant source of pleasure and profit in the home circle.

Talk it over with our local manager.



Michigan State Telephone Company, Detroit, Michigan.

TELEPHONES IN MICHIGAN! 200,000

Connections Everywhere.

Don't Wear A Truss

NEPONSET BLACK WATERPROOF Building Paper, under clapboards, shingles, slate, metal, etc., insulates against exterior heat, cold and dampness. It costs little and cuts the fuel bill one-

third every winter.

NEPONSET FLORIAN Sound-Deadening Felt, for floors, parti-

to deaden sound. Six times as efficient as ordinary

After Thirty Years Experience I Have Produced An Appliance for Men, Women or Children That Cures Rupture.

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Do you feel all tired out? Do you sometimes think you just can't work away at your profession or trade any longer? Do you have a poor appetite, and lay awake at nights unable to sleep? Are your nerves all gone, and your stomach too? Has ambition to forge ahead in the worid left you? If so, you might as well put a stop to your misery. You can do it if you will. Dr. Plerce's Golden Medical Discovery will make you a different individual. It will set your lazy liver to work. It will set things right in your stomach, and your appetite will come back. It will purify your blood. If there is any tendency in your family toward consumption, it will keep that dread destroyer away. Even after consumption has almost gained a foothold in the form of a lingering cough, bronchitis, or bleeding at the lungs, it will bring about a cure in 98 per cent of all cases. It is a remedy prepared by Dr. R. V. Pierce, of Buffalo, N. Y., whose advice is given free to all who wish to write him. His great success has come from his wide experience and varied practice.

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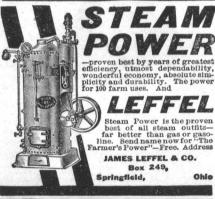
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Apple & Cherry Trees 10c. Peach & Car-Other Fruit Trees and Berry plants at lowest prices Cat. free. ERNST NURSERIES, Moscow, O., Box 2

APPLE SPRAYING EXPERIMENTS.

In order to show the best kind of spray, the proper time to spray and the best way to spray apples to prevent codlin moth and curculio injury, the Missouri Experiment Station in 1908 conducted a practical experiment upon a block of about 20 acres of Ingram apples in a large commercial Ozark apple orchard.

Three early sprays resulted in 97.6 per cent picked apples free from curculio crescents while 45.5 per cent were damaged on the trees unsprayed. Of these apples 99.83 per cent were free from codlin moth wormholes, 14.5 per cent being infested on the trees unsprayed, and 97.4 per cent of the apples were free from both kinds of injuries as compared with 46.1 per cent from the unsprayed trees. three early sprays preventing wind-The falls also gave 45 per cent more picked apples than the unsprayed trees. It was found that the spraying had doubled the cash returns for the crop, the net profit due to spraying amounting to \$65.36 per acre, or \$7 for every dollar expended for spraying.

It is considered that three early sprays, if thoroughly applied, will be sufficient to control both codlin moth and curculio under the average conditions similar to that of Missouri. Paris green was not quite so efficient as arsenate of lead and, although used with every precaution, seriously damaged the fruit by causing blackened areas about the blossom end. nearly one-fourth of the picked fruit being rejected from the first grade for this The rainy weather prevailing at the time nearly all the sprays were applied intensified the damage from the Paris green, but the adjoining block treated similarly with arsenate of lead failed to develop more than about one per cent of apples blackened at the blossom arsenate of lead, 3.8 per cent bore either into the first grade. curculio crescents or codlin moth wormholes, while 7.67 per cent bore these injuries in the plat sprayed with Paris green. Including both windfalls and picked fruit, 96.18 per cent in the arsenate of lead plat and 93 per cent in the Paris green plat were free from these injuries.

EXPERIENCE IN THINNING PEARS.

I am sure that an experience in thinning Kieffer pears will be of interest to the readers of the Michigan Farmer. Three years ago the old homestead came into my hands and on this is a block of these pears containing 48 trees about 30 years old. For a number of years prior to my occupancy these trees bore a crop of about 100 barrels on alternate years, yielding a large crop one season and then taking a year off. Not much care was given them, aside from harvesting the fruit, though the ground was not pas-The first year under my care, tured. which was two years ago, these trees set a full crop and were well thinned. I do not recall the exact time consumed in this work, but it was not far from two

Now, as to results. That season there was a large crop of pears generally, and ordinary Kieffers were slow sale, but those were nice in quality and sold for \$70 on the trees. I do not know how many barrels there were, but probably 100. The next year, or in 1909, no crop might have been expected, but as a matter of fact, those trees again bore, many of them too full, and should have been thinned. We put up 84 barrels which sold for \$2.25 per barrel at the station, or about \$1.60 on the trees, leaving \$134.40 as the net proceeds. This season these same trees blossomed well, but the cold weather at the time greatly reduced the setting of fruit. However, we last week put up 37 barrels of good pears which sold at the station at \$2.50 per barrel. There pears, worth probably \$1 per barrel net. mulch, after a hard freeze. This mulch The cost of packing this year's crop is is preferably bright, clean, rye straw, as \$12.21 for barrels and \$16 for labor, \$28.21 this straw is long and usually free of all in all, or a little over \$60 net for the crop. This has little to do with the proposition of thinning, however, as the crop would doubtless have been about the same this year if the trees had carried the full setting two years ago and then been barren ing off. Under this they are reasonably last season, as has ordinarily been the case.

48 pear trees, or an expense of approxi- growth.

mately \$25, fearing that they would not get the money back, yet this experiment resulted in a much better sale than would have otherwise been made the same year and a crop netting \$134.40 or thereabouts the following year. It should be stated that I have made a practice of thinning the Keiffers for a number of years but have not succeeded in getting annual crops before this. It has been our practice to thin the peaches first and then do this work on the pears, so it has been well into July before the pears were thinned, while on this place where these pears stand there are no peaches and the Kieffers were thinned early in June. I am of the opinion that the early thinning made the difference. Doubtless, too, the extent to which the process is carried would have its effect. Kieffers commonly set two to three fruits on each fruit spur and my instructions were to thin to about eight inches. This required the removal of from six to ten pears to one left on the trees. Some experience in this work seems to be necessary before one quite acquires the courage to take off so many. The sight of so many pears on the ground gives one the panic. But if a tree is observed that is bearing a maximum crop with all specimens of full size it will be noticed that the fruits are at not less than this distance apart. I question if the crop would have been secured the second year had the thinning been less severe.

But I do not regard the matter of thinning fruit as very much of an added expense. The fruit must be harvested, anyway, and no more time or motions are required to pluck the fruit and drop it on the ground than to drop it into the picking basket. Further, help is more plentiful and wages lower, usually by about 25 per cent, during the thinning season than at harvest time. It is a recognized fact that a force of men will put up more barrels of large fruit than of that which is smaller, in a given time, so that I am right in making this statement. work of grading is made easier, too, as the poorer specimens are always removed end. In the picked fruit sprayed with in thinning, and more of the fruit goes

EDWARD HUTCHINS. Allegan Co.

FALL AND WINTER TREATMENT OF THE STRAWBERRY BED.

The easiest, quickest grown and one of the best and most profitable of all fruits upon the farm should have the care and attention it merits. I set plants 18 in. x 6 ft. between the rows. Why? Because these times, with hired help very scarce, the work of cutting off and training runner plants I dispense with; set at this distance the plants mat in rows 2 and 21/2 ft. wide, most plants having ample room to grow and mature their fruit properly, thus leaving a row to pick from for crates, 2 ft. wide. After picking, the vines are immediately mowed and all tops, weeds, old mulch, etc., raked with a horse, free from the bed and while dry, burned; the ashes resulting, saved and used the next spring as a fertilizer for the Next, to renew the bed (I have had splendid beds ten years old), after the cutting and raking, two stakes are set in a line on one side of the bed opposite or contrary to the way the original rows lie and a sharp-toothed, one-horse cultivator, closed to 18 in., run across them from side to side, leaving a six-inch space between the new made rows. The vines left in this space are the young plants for the new bed. All plants cultivated up are also gathered and burned for fertilizer. Thus, I have a new bed on the same ground from year to year, with slight expense compared to the setting of a new plot elsewhere. If plants are too thick in the space left, a sharp hoe in careful hands will soon thin them to the proper distance apart, all old plants are usually mostly renewed by the Always save the younger plants, rejecting those older than one year. They are now ready, after a few later cultivations, to kill such weeds as the may in were also two barrels of second grade tween the newer rows, for the winter weeds, etc. Be sure your mulch is reasonably free of seeds. Two or three inches of straw all over the piece applied before the later fall rains, so that it may settle, prevents it largely from bunching or blowsure of wintering well. Do not remove the mulch in the spring until all danger The point worthy of emphasis is that from frosts has passed, leaving it between while most men would hesitate to spend the rows to keep the fruit, berries, boxes, two weeks' time in thinning the fruit on etc., clean as well as to keep down weed G. A. RANDALL.

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Next Morning Worst Cases Wonder Why They Never Before Tried The Remarkable Pyramid Pile Cure.

IT IS FREE.

By making a free test of the Wonderful Pyramid Pile Cure you are sure of being right. Nothing is more disappointing than to invest in something that don't do the work. So, write at once to the Pyramid Drug Co., Marshall, Mich., for a free trial package and know to a certainty that here is a sure, quick and permanent cure, an instant relief in worst cases of any form of piles. The trial will enable you to rest comfortably over night, and in the morning you will hustle to the nearest drug store, can't help it, for the regular 50c package that puts you on your feet and keeps you going. Be sure you get what you ask for.

Use the coupon below. Merely fill in your name and address.

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Fill out the blank lines below with your name and address, cut out coupon and mail to the PYRAMID DRUG COMPANY, 269 Pyramid Bldg., Marshall, Mich. A sample of the great Pyramid Pile Cure will then be sent you at once by mail, FREE, in plain wranger.

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HERE'S the best investment you can make now. Does the hard, dirty barn work—keeps the manure away from the barn and yard—saves all the liquid manure (worth \$7 a ton)—saves lumber and paint which manure rots away—and keeps ammonia and other poisonous gases away from your stock—eliminating danger of contaminating milk. Inspectors are strict.

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THE MICHIGAN FARMER.

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

Associational Motto.-

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

Associational Sentiment.-

the primal wealth of nations.

THE ANNUAL MEETING.

The Annual Meeting of the State Association of Farmers' Clubs, will be held in the senate chamber, Dec. 6 and 7, 1910. Questions of vital importance will be dis-Questions of vital importance will be discussed by competent men and liberal time given for general discussion. We trust that every Club will send at least one, (better two), delegate to this great inspiration meeting. No Club can afford to miss the enthusiasm and aid to be derived from association of Club workers.

As a special favor the secretary requests the local secretaries to promptly acknowledge the receipts of the report balnks. This is absolutely necessary that the State Secretary may give a complete cussed by competent men and liberal time

the State Secretary may give a complete report at the Annual Meeting. Again, please be prompt, and oblige,

MRS. C. P. JOHNSON, Sec.

A MOST SUCCESSFUL CLUB FAIR.

mittee received the exhibits, placed then dent beyond belief in autumnal glory. We in their proper departments, and the hall was thrown open for inspection.

Much care had been taken to have the exhibits in the best possible shape, and their appearance far surpassed many of the exhibits at the large fairs. A new feature was small banners bearing the names, such as wheat, corn, oats, barley, beans, etc., placed directly above the exhibits, and were both useful and ornamental. There was an immense display of all kinds of grains, the wheat and corn being extremely fine. All kinds of vegetables in abundance were on exhibition. The fruit display was small, but what was shown was of fine quality, while canned fruit was more plentiful and exceptionally fine, Mrs. C. A. Matthews showing a call of 17 varieties. Mrs. Emmet also had a fine display of canned fruit and jellies. Mrs. French exhibited jellies. Mrs. Keiser showed strawberries, and all received first prizes on the different varieties. The sugar beet growers showed fine specimens, for "beets" are grown in large acreage in Washington,

The display in domestics and fancy work far exceeded that of any previous fair, and some most elaborate exhibits, as embroidered bed sets, center

were also large exhibitors. The blue ribbons awarded by the judges at this fair are greatly prized and the judges are required to exercise great care in awarding

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

THE NOVEMBER PROGRAMS.

State Lecturer's Suggestions for First Meeting.

Song—Page 34, Grange Melodies.
An account of some movement for the uplift of humanity.
Song, "Help it On," Song Knapsack.
Recitation and music.
Beautiful objects for home and school
The ANNUAL MEETING.

-1, pictures.
Roll-call, responded to by each describing a picture he or she admires. (Show picture if possible).
Legislative matters—discussion, followed by instructions to delegates to State

Grange Suggestions for Second Meeting.

"GREATEST OF THESE."

A fall series of Lecturers' Conferences has just been completed in conjunction with the Pomona Granges of Menominee, Alger, Marquette, Delta, Schoolcraft, Luce The Annual Fair of the Washington and Chippewa counties, besides a confer-Center Farmers' Club, of Gratiot Co., was ence in Dickinson where no Pomona is held Oct. 13, 1910, at Riverside, the home yet organized. The tour of these counties of Mr. and Mrs. C. N. Curren. Much in- was made by R. N. Seward, newly apterest is manifested in this event which pointed general deputy for the upper peis becoming an important factor in Club ninsula, R. D. Bailey, representing the work. A large number of visitors, to- state's traveling libraries, and myself as gether with the Club members, enjoyed representative of the lecture department the chicken-pie dinner which is always a of State Grange. We traveled, in the upfeature of this meeting. The hall, under per peninsula alone, about 700 miles by the management of the executive com- railroad and drove eighty miles more over mittee, had been suitable decorated with the famous rock and gravel county road atuumn leaves, flowers and bunting. A system of the peninsula. The trip carlarge banner announced that all were ried us, by these miles, through new and welcome to the W. C. C. Fair. A com- cultivated sections which were resplen-

The fair is becoming more important But greater than these-greatest by far each year, and is of considerable benefit of all-are the people of this upper emthe farmers. Many exchanges and pire so recently added to our Grange gifts of different varieties of grains and field. At every one of the nine points vegetables are made and new friends and where we attended gatherings of them we acquaintances are made at the Club found staunch characters in plenty, ready Fair. A very short program was given, for any endeavor that would increase the consisting of music and recitations, fol-value of their farms and develop "a betlowing the usual order of business. The ter and higher manhood and womanhood" next meeting will be with C. B. Doan the among themselves. They were of the second Thursday in November .- Cor. Sec. stuff that loyal Patrons are made. They are fast in the making, too. Leaders are being discovered and are in training for service. Their children are being imbued with Grange principles and habits. They are on all hands falling into step in the mighty agricultural march forward that this region has started upon-a territory that for long has been related to Michigan much as Alaska has been to the United States and which, also like Alaska, is possessed of unguessed riches and resources, besides a people valuable far beyond mere material wealth.

JENNIE BUELL

AMONG THE LIVE GRANGES.

Onsted Grange, of Lenawee Co., recently closed a contest which resulted in the addition of a good number of members and many meetings of unusual interest. The side captained by Sister Elva Laur won in the contest by about 500 points, and the opposing side furnishes a chicken pie supper

The side captained by Sister Liva Laur won in the contest by about 500 points, and the opposing side furnishes a chicken-pie supper.

Sanilac Pomona was entertained by Amadore and Croswell Granges, Saturday, Oct. 15, at Mills hall in Croswell. Although practically all of the Pomona officers live on the other side of the county, all were in attendance. Only about 50 Patrons were present, the fine weather for farm work keeping many at home. After a short business session the doors were thrown open to visitors and a good program of short talks, recitations and music was given.—W. N. Cook.

Wayne Pomona held a good meeting with Harmony Grange at Romulus, Saturday, Oct. 14. It was the last Pomona meeting for this year and Pomona officers for the next two years were elected as follows: Master, J. C. Neir Flat Rock; overseer, J. C. Pullen, Belleville; lecturer, Mrs. J. F. Lindsay; steward, Jas. Pinck; assistant steward, Emery Bird; chaplain, Rev. P. C. Cyphers; treasurer, Robt. Bird; secretary, Jas. W. Brighton; gatekeeper, H. C. Packard; Ceres, Mrs. Jas. Pinck; Pomona, Mrs. H. C. Packard; Flora, Mrs. S. W. Spencer; lady assistant steward. Mrs. Emery Bird. Delegates elected to attend the State Grange: Mr, and Mrs. H. A. Munroe, of Flat Rock Grange. Six new members were received and given the fifth degree work. Romulus Grange served dinner to about 175 Patrons. After deresses on the benefits of good roads by Hon. H. S. Earle and ex-State Master Ladd, of Massachusetts.

State Grange Exhibits.—Mason County Patrons contemplate making a showing of fruit from their county at the State Grange meeting in December. Benzie Co.

Patrons contemplate making a showing of fruit from their county at the State Grange meeting in December. Benzie Co. has a committee collecting material for its exhibit and the Pomona master of that county recently informed the com-



dy — warm, soft and easy. It ribbed for elasticity—fleece lined for warmth.

Ribbed Fleece-Lined Underwear

The silky inner fleece cannot wear off, wash away or knot. The peculiarity of the weave won't let it. The ribbed fabric gives a close but free and easy fit. It also is wonderfully dura-

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Made in separate and union garments for Men, Women and Children at 50c, and up. If your dealer cannot supply you, write for Bodygard Underwear Book No. 13.

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Put your money in residential building lots. Be sure they are in improved sections. Buy close to a big city. Purchase early, don't let others make profits out of you. The greatest fortunes were made by realty investments. We will offer 1000 choice building lots on Dec. 1st, at prices that will pay very handsome profits. Terms of purchase, \$25 cash, per lot, balance in thirty-six equal payments. No interest or taxes during this period. If you die before completing your payments, a deed is given your heirs, without further cost. \$25 cash, per lot, balance in thirty-six equal payments. No interest or taxes during this period. If you die before completing your payments, a deed is given your heirs, without further cost. \$25 conduction and upward, according to location. By investing in land you own something for your money. Investments in stocks or saving accounts are under the control of others. We guarantee you a profit of at least 25% for the first year. Subscription lists are now open. By remitting us \$10.00 per lot, subscribers get first selections. The first 500 subscribers will also receive a credit of 10% on their purchase. Act now. Let us make money for you and protect your savings.

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Drop the Middleman. Deal with the House that's DIFFERENT, (four circular tells why.) that charges no commission, pays expressage, exports direct to London, England, and Leipzig, Germany, the greatest Fur

of the World Ing inion Matter than the world matter that will be worth a fortune to you. DON'T SHP a skin till you hear from us. Tags and valuable information as to PRIZES offered, free. Write. WEIL BROS. & CO., Est. 1871, But 45, FORT WAYNE, IND. Capital \$500,000 Paid.

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Unpolished Table Rice. Like the Japs eat it. Most delicious and nutritious of all the cereals. Our specialty, 100 pounds in double sacks freight prepaid to your railrond station, \$5. Ref-erence—The Houston National Exchange Bank, Hous-ton, Texas. J. Ed. Cabaniss, Rice Farmer, Katy, Texas.

WANTED—A Woman for general housework. near Detroit. Only two in family, a good home, kind treatment, liberal wages. Address E. H. HOUGHTON, Box 47, Grosse Point Farms, Michigan.

Try"Noxall"Potatoes next year. Fine, white, heavy bu. Sacks free. J. W. Mitchell, R. No. 2. Hart, Mich.

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The Best Crop Grown by the Patrons of Delta County, Mich.

such as embroidered bed sets, center pieces, scarfs, towels, and many beautiful specimens of fancy knitting were shown. A collection of old letters bearing 10c postage stamps were something of a curiosity.

A fine exhibit was made by one of the Club boys of corn and potatoes grown by himself, and the Club will have a department especially for the Club boys and such as the country of the state.

The Best Crop Grown by the Patrons of Deta County, mich.

Saw at nearly every point, but notably mittee that the Granges of Benzie will shortly hold a Grange fair at Honor. The best of the vegetables, grains and fruits shown there will be saved for the big display to be made at Traverse City. Benzie Co. also promises a larger representation at State Grange than last year. Manistee Co. Granges have shown their interest in the big display by making a contribution to the fund being collected for the purpose of getting together the exhibits and otherwise entertaining State Grange. ment especially for the Club boys and or excel in any other county of the state. girls at the next fair. There was also a We saw even peaches and grapes that good display of plants and cut flowers. were grown in Delta county; tomatoes C. A. Matthews won first prize for the ripened on the vines in Dickinson; acres largest number of exhibits; L. C. and C. and acres of giant corn in Marquette; N. Curren, second; S. N. French, third. numerous grains, vegetables and fruits, F. Cammet and J. Keiser and Geo. Hill which had been adapted to the climate, growing upon the experiment farm in Alger, and the celery fields of Newberry. The apples from Menominee and Chippewa would make the "fruit belt" section look to its laurels in competition.

COMING EVENTS.

National Grange, Forty-fourth annual session, at Atlantic City, N. J., Nov. 15. Michigan State Grange, Thirty-eighth Annual Session, at Traverse City, Dec.

Pomona Meetings Charlevoix Co., with Barnard Grange, Thursday, Nov. 17.
Mecosta Co., with Aetna Grange, at Borland, Thursday, Nov. 17.

DETROIT WHOLESALE MARKETS.

October 26, 1910. Grains and Seeds.

Wheat.—The opposing interests in the wheat market are both finding news to support their claims for changes in prices, and in the meantime values have kept close to the prices ruling a week ago. The bears are delighted with the heavy receipts from Russia at European markets and with the reports coming up from South America that Argentine is growing a big crop. On the other hand, the bulls feel encouraged over the fact that they have held the market steady, that the farmers are not delivering grain as plentifully as some weeks ago, and that the reports of the Hessian fly working in the growing grain is increasing to an alarmers are those weeks ago. reports of the Hessian fly working in the growing grain is increasing to an alarming degree, although even the bulls are compelled to confess that the fly news is not weighty at this time. Flour is not in heavy demand this week, but the mills continue grinding. The news from abroad has demoralized the foreign demand. One year ago the price for No. 2 red wheat was \$1.23½ per bu. Quotations for the week are as follows:

No. 2 No. 1

Red. White. Dec. May. Thursday ... 96 .93¼ .98 1.03

White. Dec. May. .93¼ .98 1.03 .93¼ .97½ 1.02½ | Red. | Priday | 96 | | 96 | | 95 | 1/2 | | 95 | 1/2 | | 96 | | 95 | 1/2 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 96 | | 9 .93¼ .98 .93¼ .97½ .93 .96½ .93 .96½ .93 .96½ .93 .96½ .93 .96½ 1.021/4

Wednesday95 .93 .96 \(\frac{1}{2} \) .101\(\frac{1}{2} \) Wednesday96 .93\(\frac{1}{2} \) .97 1.02\(\frac{1}{2} \) Corn.—While dealers were all but convinced of the mammoth crop of corn being produced in the country, the reports from the fields, the past week, gave the bears a "hunch" that all might not be easy sailing toward lower values in that the yields were disappointing to the farmers where husking is the order of the day. Consequently the bulls have been able to keep prices steady. The visible supply shows a decrease of nearly a million bushels. One year ago the price for No. 2 corn was 63\(\frac{1}{2} \) c per bu. Quotations for the week are:

No. 2 Mixed. | Mixed. | Thursday | 51½ | 51½ | 51½ | 51½ | 51½ | 51½ | 51 | Monday | 51 | Tuesday | 51 | Tuesday | 51 | Wadaay | 51 Tuesday 51 Wednesday 51½

Wednesday 51½ 53

Oats.—None of the grains showed the strength exhibited by oats. An unusually large decrease in the visible supply, for this season of the year, prompted sellers not to cut prices. The chief feature of the week, however, was the report that France has suspended the import duty of 8½c per bu, upon the grain. This was the best evidence to be had of the shortage of oats in that country and that a call from other countries would be made. At this date in 1909 oats were selling at 42c per bu. Quotations for the week are:

Standard, No. 3

White.

Cash.	Nov.
Thursday\$2.00	\$1.94
Friday 2.00	1.96
Saturday 2.00	1.96
Monday 2.00	1.90
Tuesday 2.00	1.9
Wednesday 2.00	1.9

	Prime	Spot.	Dec.	Alsike
Thursday		\$8.75	\$8.80	\$8.75
Friday		8.75	8.80	8.7
Saturday		8.75	8.80	8.75
Monday		8.75	8.80	8.75
Tuesday .		8.50	8.55	8.75
Wednesday	7	8.50	8.55	8.75

Visible	Supply of Grai	ns.
	This week.	Last week.
	39,978,000	37,573,000
Corn		3,796,000
Oats	16,989,000	17,886,000
Rye	421,000	406,000
Barley	2,848,000	2,596,000

14%c; shoulders, 11c; picnic hams, 11c; bacon, 19@22c; lard in tierces, 12@13c; kettle rendered, 13%c per lb.

Dairy and Poultry Products.

Butter.—The influence of decreased production and the constant large demand has forced butter prices higher. Creamery goods advanced a half cent and dairy offerings are steady with last week. Quotations are: Extra creamery, 30c; firsts, do., 29c; dairy, 23c; packing stock, 23c per lb.

do., 29c; dairy, 23c; packing stock, 23c per lb.

Eggs.—The wholesale price of eggs is unchanged from last week. The supply is limited to a rather small volume, while the demand is causing the offerings to move quickly to the consumers. Fresh receipts, case count, cases included, are quoted at 25½c per dozen which is the price of last week.

Poultry.—Quite liberal numbers of coops are coming to the market; but the supply is offset by a fairly good demand and prices rule on the basis established a week ago. Chickens are steady at 13@ 13½c per lb; hens are also unchanged at 10@12½c; turkeys have not changed from 16@17c, nor geese from 10@11c, and ducks continue at 14c per lb.

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

Fruits and Vegetables.

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

Fruits and Vegetables.

Apples.—The fruit is in good supply and trade is steady at unchanged figures. Choice consignments selling at \$3@3.50; common kinds and grades, \$2@3 per bbl. Cabbage.—Steady. Selling at \$1.50 per bbl. for new.

Tomatoes.—Market higher. Generally quoted at 90c@\$1 per bu.

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

Pears.—Steady. Selling at 75c@\$1.50 per bu.

OTHER MARKETS.

Grand Rapids.

Grand Rapids.

The potato market is doing somewhat better than last week. Farmers are refusing to sell at the low prices and this has had its effect, while the cooler, more seasonable weather has also helped. Prices are still low, ranging from 30c in this freight zone to 25c at northern loading points. Michigan has fine stock to offer this season and it is felt that prices will improve as the season advances. Potatoes brought 40@45c on the Grand Rapids city market Tuesday morning. Tomatoes are about all in for this season. They are of poor quality and bring from 30@50c. Hay is steady at \$16@17. Apples range from 60c@\$1.10. Creamery butter is up ½c, dairy remaining the same. Eggs hold at 24@24½c. The poultry market is steady. Dressed hogs are worth 10½@11c. The market on beans is weak at \$1.85 and prospects indicate a drop to basis of \$1.70 to farmers before the week is over. is over.

Butter.—Trade firm at 29½c per lb., which is a half cent advance over the price of last week. Sales for the week amounted to 683,700 lbs., as compared with 689,300 lbs. for the previous week.

THE LIVE STOCK MARKETS.

THE LIVE STOCK MARKETS.

Buffalo.

October 24, 1910.

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

Receipts of stock here today as follows:
Cattle, 187 cars; hogs, 16,000; sheep and lambs, 14,600; calves, 1,100.

With 187 cars of cattle on our market here today, and 25,000 reported in Ch'cago, our market opened up steady, and in some cases a little stronger, and everything was sold at the close; feeling better than last week.

We quote: Best 1,300 to 1,400-lb, steers \$6.85@7.25; good prime 1,200 to 1,300-lb, do., \$6.25@6.75; best 1,100 to 1,200-lb, shipping steers, \$5.65@6.25; medium butcher steers, 1,000 to 1,100 lbs., \$5@5.40; light butcher steers, \$4.50@5.10; fair to good cows, \$3.25@4; common to medium do., \$3@3.50; trimmers, \$2.75@3; best fat heifers, \$5.25; @6; good do., \$4.25@4.75; fair to good do., \$3.75@4.25; stock heifers, \$3.50@3.75; best ceding steers, dehorned, \$5@5.25; medium to good feeding steers, \$4.25@4.50; stock-ers, all grades, \$3.50@3.75; best bulls, \$4.75@5.25; bologna bulls, \$3.75@4.25; light thin bulls, \$3.25@3.75; best milkers and springers, \$70@80; good do., \$30@40. Late 7 springers from \$5@10 lower. A few extra good fat cows brought \$5.25.

With 100 cars of hogs on sale here today, our market opened weak to 5c lower of than on Saturday. Opening prices were from \$9.15@9.20; Receipts in Chicago being light, and reports coming favorable here, our market strengthened later in the day and sold from \$9.20@9.25, and later \$9.25@9.30; closing steady at the later prices. All sold that was yarded in time for the market, and prospects look fair for the near future.

We quote: Medium and heavy, \$9.20@9.25; mixed and yorkers, \$9.25@9.30; pigs mostly \$9.30; rough, \$7.75@7.90; stags, \$6.50@7.

The lamb market opened active today, with prices about 15c per hundred weight birts there there there are future.

We quote: Medium and heavy, \$9.20@ 9.25; mixed and yorkers, \$9.25@ 9.30; pigs mostly \$9.30; rough, \$7.75@7.90; stags, \$6.50@7.

The lamb market opened active today, with prices about 15c per hundred weight higher than last week; most of the best handy lambs selling at \$7.15. Market close on heavy lambs; most of the northern Michigan lambs selling at \$7.10. closing steady, about all sold. Look for steady prices the balance of the week. Handy sheep were strong today, and prospects are for about steady prices on sheep the balance of the week.

We quote: Spring lambs, \$7.10@7.15; wethers, \$4.50@4.75; cull sheep, \$2.50@3.25; bucks, \$2.50@3.25; yearlings, \$5@5.50; heavy ewes, \$4@4.10; handy ewes, \$4@4.25; northern Michigan lambs, \$7@7.10; veals, choice to extra, \$10@10.25; fair to good do., \$7.50@9.75; heavy calves, \$6@7.

The clark of all the clark of the control of the co

very good outlet on the whole at \$4.25 \$4.7 for steers and \$3.05.50 for cows and helfers, but steer sales near the top figure were few and far between. A great many range cattle have gone to feeding districts, and numerous good bargains have been picked up in this line by country shippers. A good many cattle will be roughed through the winter by farmers who have found this a profitable method in recent years.

have been picked up in this line by country shippers. A good many cattle will be roughed through the winter by farmers who have found this a profitable method in recent years.

Hogs were marketed on several days of last week with more freedom on account of the good advances in the choicer class of light and medium weights, but the coarse, heavy sows were slow to advance with the other offerings, and there was a big widening out in quotations. Later in the week sharp reactions occurred, as is customary after a rapid advance, and even prime lots had to be closed out very much lower. It should be understood by country shippers that the market is in an unsettled state, and when fluctuations are 15@25c up or down in a single day it is necessary to buy in the country on extra large margins in order to prevent big losses when the hogs are sold on the market. The eastern shipping outlet is not to be depended upon to any great extent, for of late only a few thousand hogs have been taken daily for shipment in the Chicago market. The best demand runs on hogs best adapted for the fresh meat trade, and not enough of these are coming on the market. The packers discriminate strongly against extra heavy hogs, and it is best to market these without delay, but growing pigs should be matured before selling.

Sheep and lambs continued for still another week to come to market in extremely liberal numbers compared with past years, although the runs were smaller than a week earlier. As has been the case all along, the receipts consisted mainly of flocks from the ranges, and these were largely better qualified for sending to feeding districts than for slaughtering. Fortunately for sellers, the call for feeders was even larger than heretofore, and this held the decline in check. Range offerings showed a noticeable falling off in quality, indicating that the season is nearing a close. Packers bought up the good killing classes freely and not enough prime lambs and sheep were offered to satisfy buyers. Coarse, bucky native lambs were dis

THIS IS THE LAST EDITION.

In the first edition the Detroit Live Stock markets are reports of last week; 1 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 la Detroit Live Stock market report. You may have any edition desired. Subscribmers may change from one edition to another by dropping us a card to that effect.

DETROIT LIVE STOCK MARKETS.

Thursday's Market. October 27, 1910.

Thursday's Market.

October 27, 1910.

Cattle.

Receipts 729. Market active and strong at last week's prices on all grades.

We quote: Best steers and heifers, \$5.75@6; steers and heifers, 1,000 to 1,200, \$5@5.50; steers and heifers, 800 to 1,000, \$4.50@5; grass steers and heifers that are fat, 500 to 700, \$3.75@4.25; choice fat cows, \$4@4.50; good fat cows, \$3.50@3.75; common cows, \$3@3.25; canners, \$2@2.75; choice heavy bulls, \$4; fair to good bolognas, bulls, \$3.50@3.75; stock bulls, \$3.25@3.50; choice feeding steers, 800 to 1,000, \$4.25@4.50; fair feeding steers, 800 to 1,000, \$3.75@4.25; choice stockers, 500 to 700, \$4.25@4.50; fair feeding steers, 800 to 1,000, \$3.75@4.25; choice stockers, 500 to 700, \$4.35@4.25; fair stockers, 500 to 700, \$3.50@3.75; stock heifers, \$3.25@3.50; milkers, large, young, medium age, \$40@65; common milkers, \$25@35. Haley & M. sold Sullivan P. Co. 14 butchers av 660 at \$3.85, 8 do av 762 at \$4.25, 1 bull weighing 1,140 at \$3.50; 1 steer weighing 970 at \$5; to Fronn 1 do weighing 370 at \$4.10; to Thompson Bros. 2 cows av 1,000 at \$3.50, 1 do weighing 700 at \$2.50, 4 do av 1,017 at \$3.75, 1 do weighing 840 at \$3; to Parker, W. & Co. 1 steer weighing 1,040 at \$5; to Sullivan P. Co, 8 butchers av 653 at \$4.30, 3 cows av 990 at \$3.75, 5 cows av 930 at \$3.60, 1 do weighing 790 at \$2.50; to Breitenbeck Bros. 15 steers av 793 at \$4.80; to LaBoe 5 butchers av 808 at \$4.50; 15 do av 770 at \$4.70; to Otter 23 stockers av 747 at \$4.25; to Sullivan P. Co. 1 cow weigning 910 at \$2.50, 8 do av 1,000 at \$3.85; to Cooke 3 steers av 976 at \$5.50; to David 2 stockers av 615 at \$4.25, 3 do av 547 at \$4.25.

Spice R. sold Sullivan P. Co. 1 cow weighing 1,230 at \$4.50; 2 do av 965 at

Cooke 3 steers av 976 at \$5.50; to David at \$4.25. 3 do av 547 at \$4.25. Spicer & R. sold Sullivan P. Co. 1 cow weighing 1,230 at \$4.50, 2 do av 965 at \$2.75, 3 bulls av 1,010 at \$3.75, 1 do weighing 520 at \$3.25; to Bresnahan 2 cows av 1,100 at \$4, 3 do av 793 at \$3; to Heinrich 6 butchers av 741 at \$4.15; to Breitenbeck Bros. 2 cows av 1,000 at \$3.75, 1 do weighing 1,020 at \$4.50, 1 bull weighing 1,240 at \$3.85; to Regan 1 heifer weighing 620 at \$4; to Schlischer 4 butchers av 762 at \$4.50, 2 do av 430 at \$3.75, 4 cows av \$50 at \$4.50, 2 do av 430 at \$3.75, 4 cows av \$3, 8 butchers av 682 at \$4.25; to Thorborne 9 stockers av 621 at \$4; to Breitenbeck 10 southers av 778 at \$4.15, 1 cow weighing 1,000 at \$3.75; To Thompson Bros. 1 bull weighing 1,200 at \$4, 1 cow weighing 800 at \$2, 2 do av 935 at \$3.25; to Sullivan P. Co. 2 steers av 1,170 at \$4.50; to Lachalt 3 butchers av 773 at \$4.50. Bishon B. & H. sold Mich. B. Co. 11

to Sullivan P. Co. 2 steers av 1,170 at \$4.50; to Lachalt 3 butchers av 773 at \$4.40.

Bishop, B. & H. sold Mich. B. Co. 11 butchers av 609 at \$3.85, 6 do av 740 at \$4.25, 1 heifer weighing 680 at \$3.50, 1 bull weighing 930 at \$3.85, 2 cows av 905 at \$3.50 to Bresnahan 6 cows av 1,116 at \$4, 2 do av \$20 at \$3.25; to King 2 stockers av 650 at \$4; to Kamman 11 butchers av 654 at \$4.05, 1 bull weighing 650 at \$3.50, 1 do weighing 770 at \$3.75; to Sullivan P. Co. 1 cow weighing 500 at \$2.75, 1 do weighing 730 at \$2.25, 5 butchers av 922 at \$4.85, 8 do av 653 at \$4, 1 bull weighing 1,440 at \$4, 3 cows av 907 at \$2.65, 3 heifers av 750 at \$4.50, 2 cows av 850 at \$3.75, 2 do av 1,050 at \$4.25, 3 do av 900 at \$3.50, 1 do weighing 1,240 at \$3.75; to Bresnahan 3 caners av 943 at \$2.50; to Mich. B. Co. 12 steers av 1,200 at \$6, 3 do av 1,083 at \$5; to Hammond, S. & Co. 4 do av 700 at \$4.35, 1 bull weighing 1,050 at \$3.85, 1 cow weighing 1,200 at \$3.50.

Roe Com. Co. sold Thompson Bros. 7 cows av 986 at \$4; to Hammond, S. & Co. 8 heifers av 742 at \$4.35, 1 do weighing 890 at \$5, 4 do av 500 at \$4.5, 3 feeders av 742 at \$4.35, 1 do weighing 1,150 at \$4, 20 steers av 864 at \$5; to Breitenbeck Bros. 4 cows av 1,030 at \$3.60. 2 do av 945 at \$3.60.

Johnson sold Sullivan P. Co. 8 butchers av 580 at \$4.20, 5 do av 336 at \$3.75.

Lovewell sold Regan 10 butchers av 575 at \$4.

Friday's Market.

October 21, 1910.

Cattle.

Receipts this week, 956; last week, 144. Market steady at Thursday's 1.144.

do av 700 at \$4.35, 1 Dul weighing 18.85.6 [Low weight Thimpson Bros. 7 cows av 986 at \$4; to Hammond, S. & Co. 8 heifers av 742 at \$4.35, 1 do weighing 890 at \$5, 4 do av 596 at \$1; to Mulheron 19.85 at \$5.40 at \$4.20 steers av 864 at \$5; to Weighing 1.150 at \$4.20 steers av 864 at \$4.20 stee

av 150 at \$9.50; to Breitenbeck Bros. 2 av 150 at \$9.50. Kendail sold Burnstine 9 av 150 at \$3. Mendail sold Burnstine 9 av 150 at \$3. x 15 at 9.50; to Breitenbeck Bros. 2 av 150 at \$3.50.

X to at \$5.50.

X to at

(Continued from page 357).

ket owing to the cholera which has entirely cleaned out some localities. Corn has all matured in good shape, which has brought prices down and will turn out a larger yield than for several years past.

Apples, potatoes and pears are coming in here by the car load. Apples selling from 25c@\$1.25; pears, \$1.15; potatoes, 60@80c; dealers pay for corn, 42c; oats. 27c; wheat, 85c; chickens, 9½c; old roosters. 5c; butter, cash, 28c, trade, 30c; eggs. cash, 22c; trade, 24c; baled oat straw \$7.

New York.

St. Lawrence Co., Oct, 17.—Corn harvesting finished with satisfactory results. Many new silos were built this year. The building of many new barns this season has given work to many carpenters and masons. The close inspection of the barns by the New York City Board of Health has caused many old barns to be condemned. Dairy cows are selling from \$40@55; calves from 4½@5c; eggs, 25c; hay, \$14 per ton; potatoes, 45c bu; butter. 29½c; cheese, 15c. Apples are reported short. Plowing is the order of the day.

Ohio.

Carroll Co., Oct, 21.—Corn is about all

great inducements for the homeseeker. Write to-day. UNITED REALTY CO., Saginaw, Michigan.

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Merely a Question of Vision When Parents awkward lout. As a matter of fact, outsiders think the couple are very well mated. John has his faults, but then Mary isn't perfect. Mary's mother insists

dren are extraordinary? Just what there around with the look of a martyr talking is about a little fat, freckledfaced, pug- of the ingratitude of children and calling nosed, lowbrowed youngster to make his John's attention to all the successful capmother and father think he is a genius tains of industry, with the remark, "That is a matter of speculation to everyone but is what you might have been." the parents, and the funniest thing about it all is, that while we deny our friends the palm for intellectual and beautiful children, we still insist our own are prod-

We may admit we are numskulls ourselves, that we are homely, down in the heel, unsuccessful and never likely to be any farther ahead than we are now. But our children, never! They are of a bit better blood than other people's, though where the blue blood comes from since our own is just ordinary red, might be a matter for thought. They are by far the brightest, handsomest and best children in the community and bound to be a success no matter what adverse circumstances they may be called upon to face. They may inherit a weak will and an inbred distaste for work from both sides of the house, but we can excuse these as the eccentricities of genius and still insist that they will come out all right in the end.

Such an attitude is only natural to parents I suppose, and in some ways it is very amusing, even with the underlying pathos. But unfortunately it is all too often carried to extremes as the children grow up, and makes no end of bother. Often, indeed, it hinders the boy or girl from becoming the real success he otherwise might be.

Here is John Smith, for instance. Just plain John Smith, not Jack Smythe or Jean de Smythe, but just honest John Smith, an honest American lad, the son of an American farmer, John's grand-father was also a farmer and his great father and it might be supposed, naturally, that John would have leanings that way himself. He does. John wants to be a farmer. It is bred in the bone and born in the flesh, he enjoys the work, he knows no other, and besides he is keen enough to see that there is more money for him in this year of grace in farming than in going to town and starting into work he knows nothing about and for which he cares less than he knows.

But John's mother has other ideas. When Johnnie was a tiny little baby playing with his toes in the cradle his mother discovered that he was not an ordinary child and was meant for higher things than "grubbing his life out on a farm." She decided that it would be infinitely more genteel and elevating for Johnnie to wear a white collar and patent leather shoes (bought at a sample sale for \$2.98), and to sit up on a stool in an office and add a column of figures. For this work John, if he is lucky, may draw \$8.00 a week, and he must pay at least \$6.00 of that for his board. John doesn't take to "figgers." In fact, it is a nuisance to him to figure anything except how much his crops will bring, but he can do that all

Mother insists on John's going to town John grumbles but probably office. John insists on farming. Then follows a session of fireworks around the home, mother scolding and sniffling, John growling and sulking. John knows he is just an ordinary boy with an ordinary education and no liking whatever for the His mother is sure he is most extraordinary and can do anything he sets his could on a farm and does only mediocre it out and arrange in bundles before he may be worked out.

most ordinary parents that their chil- insists on the country, mother goes

her daughter dead than married to that

that her daughter could go into any circle of society and take her pick and is S there anything more amusing to the work. All the time he is conscious of the amazed that she should choose a comimpartial observer than the claim of fact that he is out of his sphere. If he mon, ordinary man like John. John's mother can't see what a regular Beau Brummel like John wants to do with a dowdy little frump like Mary. And so these two fond, but exceedingly foolish, mothers make the days which should be the happiest to the young couple, one long The dickens is to pay though when drawn out nightmare of misery. Usually matrimony is in question. There never the young people have sense enough to was a girl born good enough for any see things as they are and marry in spite mother's son, and, of course, no man is of the mothers. Sometimes, however, the good enough for any mother's darling pressure is too strong and one or the daughter. John falls in love with Mary, other gives in. Two lives are then wreck-Instantly John's mother has a conniption ed because two mothers could not see fit and Mary's mother would rather see their own offspring as others see them.

Country Women As Money Earners—No. 16. Cellar Grown Rhubarb Makes Good Sale.

each season does it ever occur to not pay the best price for it. you that there might be money in eggs and chickens, for instance? Prob- or four stalks, according to the thickness ably it never has because you do not of the stalk. These are carefully tied at think of nice, tender, fresh rhubarb as a luxury. You have always had a few hills in your garden and in the spring you if you lived in a city and paid from five to ten cents for three stalks of it, according to the time of the season you went buy it, it would be brought to your mind that there must be money for some one in rhubarb raising.

One woman got the idea and tried it. She reports \$400 to her credit for one season from only one acre of ground. And the initial expense was not so great as it would have been had she turned her attention to fowls, neither was the work so hard nor so continuous.

The plants should be set out as early grandfather, and his great, great grand- in April as possible, though you will get results if they are set out as late as June. The soil should be a well drained, preferably sandy, loam, though the plant will grow in any good loam. It should be well supplied with plant food, either naturally or by means of a good fertilizer. Choose a good, early winter variety, as up. Make all the picots extra long. Leave the earlier you can get your crop into a space of thread a little longer than the market the better will be the price you picots and make another ring like the will get. The plants should be well watered and kept from seeding by closely cutting the flower stems when they ap Set the plants a foot and a half apart with from five to six feet between the rows so it can be cultivated easily three or four times a year.

To secure top notch prices, of course you must make up your mind to produce cellar-grown rhubarb. This is ready for market early in February, and last season brought 40 cents a dozen bunches of rhubarb in this way, dig up the roots before the ground freezes in the fall, throw the roots loosely on the ground and leave them outside until they are frozen It would be well to put them under a porch, if you have one, lest they get snowed under. If you have no such place a temporary shelter where they will remain frozen solid might be erected.

in and plant them in four or five inche goes. He does fairly well with his studies, but is unhappy all the while. School of sand in the cellar. Water well and in thread and with a needle fill in the center over, John wants to come home. Mother six weeks your rhubarb should be ready by running a thread through each of the insists that he go to work in a store or for market. It will have dwarfed leaves picots and twisting it back, making a and the stalks will be tender, pink and succulent and not at all stringy like that thread and without breaking it off make grown in the garden. In fact, it is supe- a row of buttonhole stitches into the end rior in many ways to the rhubarb grown of each picot, twist the loops and draw out of doors.

In getting a good price for your rhuwork his mother has picked out for him. barb, as much depends upon the care waist trimming. Or a row of them may with which you put it up as upon the be fastened together for insertion. The quality of the plant. Too many women needlework with the tatting is very effechand to do. The contention ends with living at a distance from the city markets tive. It may be made from all white or one or the other in agony. Perhaps John bundle the stalks up any old way, long ecru thread or the center may be worked gives in and stays inside to work. He stems with short ones, and ship it to a in of a different color. There are many gets poorer pay and poorer board than he commission man. He then must sort ways in which this effective little wheel

S you eat your first rhubarb pie can dispose of it, and, of course, he will

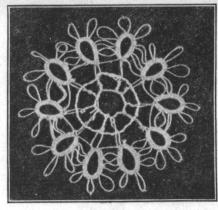
The stalks should be selected according the plant for you, more money than in to length and made into bunches of three top and bottom, and then bundles of a dozen bunches made which are also tied stoutly at both ends. At the beginning of used it and thought nothing about it. But the season the rhubarb may be either expressed or freighted, but later, when hot weather sets in it should be expressed to get it to its destination as quickly as possible.

Of course, the question of a market crops up first in the mind of every woman who would like to make money in this way. There may be no market near you, but rhubarb that is perfectly fresh and well cared for may be shipped as far as 1,000 miles to market. Then, do not be too sure you haven't a market at home. If you are blessed with tact and stick-to-it-iveness you may be able to work up a market for your stuff in your nearest town or city.

TATTED WHEEL.

BY GENEVA M. SEWELL.

Make a ring of two double-seven picots, each separated by two double and draw first, fastening tokether by the first two



picots. Continue in this way until you The first of January bring your roots have ten rings, fasten the first and last double twisted thread. Then fasten the into shape, fasten thread and cut off. This wheel makes a pretty inset for shirt

******* Famous "Pint of Cough Syrup" Recipe

No Better Remedy at any Price. Fully Guaranteed.

••••••

Make a plain syrup by mixing one pint of granulated sugar and ½ pint of warm water and stir for two minutes. Put 2½ ounces of pure Pinex (fifty cents' worth) in a pint bottle, and fill it up with the Sugar Syrup. This gives you a family supply of the best cough syrup at a saving of \$2. It never spoils. Take a teaspoonful every one, two or three hours.

The effectiveness of this simple remedy is surprising. It seems to take hold instantly, and will usually stop the most obstinate cough in 24 hours. It tones up the jaded appetite and is just laxative enough to be helpful in a cough, and has a pleasing taste. Also excellent for bronchial trouble, throat tickle, sore lungs and asthma, and an unequalled remedy for whooping cough.

This recipe for making cough remedy with Pinex and Sugar Syrup (or strained honey) is a prime favorite in thousands of homes in the United States and Canada. The plan has been imitated, though never successfully. If you try it, use only genuine Pinex, which is the most valuable concentrated compound of Norway white pine extract, and is rich in gulaicol and all the natural healing pine elements. Other preparations will not work in this recipe.

A guarantee of absolute satisfaction, or money promptly refunded, goes with this recipe. Your druggist has Pinex or will get it for you. If not, send to The Pinex Co., 232 Main St., Ft. Wayne, Ind.

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UTILIZING OLD FEATHER BEDS.

BY ELLA E. ROCKWOOD. grandmothers has given place to a bed of different order, the disposal

something of a problem.

The feathers, while perfectly good, are always nice for pillows and the average she has been using on her beds are rather small and not up to the regulation size. By purchasing new ticks it is an easy matter to change to those of Pillows, either 22, standard dimensions. 24 or 26 inches in width by 30 or more in length will be better than the smaller Cloth for cases comes in these widths either in tubing or to be closed, as may be selected.

Sofa pillows are always useful and extremely decorative in addition, one of the few articles which may be truly claimed as being both useful and ornamental. For these, grandmother's feather bed of softest goose down will furnish just the material. If these are made quite large, either square or oblong, and covered prettily the result will be eminently pleasing to the eye and something not to be despised in housefurnishing either.

The most elegant comfortables are filled with down, and quilted the same as any bed covering. For this use, down, and not ordinary feathers, must be employed.

The newest use to which old feather beds are placed is to make them into mattresses. There are machines for doing this work, the rows of stitching passing in straight lines sufficiently close together to insure firmness. This makes an ideal bed, from the standpoint of Eggs, Toast or Gems, Butter, comfort, and is not less hygienic than most other substances employed in mattress making.

Of course, if the feathers are old they should be renovated. Establishments Lettuce with Olive Oil or Boiled Dressing. where this process is carried on are to be Corn Starch Blanc Mange found in nearly all towns of any size. This makes them light and fluffy and removes all dust which may have been collected during previous periods of servititude. Old feather beds are too valuable to be neglected, but if they are not going to be put to some use they may better be sold or otherwise disposed of and not left to invite mice and moths to the family attic.

WHAT FOODS ARE NEEDED. No. 27.

BY MRS. ALTA M. LITTELL.

UCH has been said and more written about "well-balanced menus." Since cooking schools have sprung up all over the land and government experiments, not to mention private laboratories, have attempted to show just how little a man can eat and still keep in good condition, everyone who writes at all of cooking aims to tell just how many ounces of every sort of food are necessary for the day's rations.

Writers prattle prettily of kilograms and calories, without any real conception of what calorie means, and the housewife, not schooled in present-day terms, is in doubt whether a calorie is a new sort of breakfast food or a fireless cooker. I'm sure if I were to be awakened suddenly in the night and ordered to define the word I'd decide in favor of the cooker.

It is not my intention to talk of kilograms or of calorics in this article, firstly, because of my dense ignorance on the subject, and secondly, because I never could see how a knowledge of the exact measurements of fuel values was of great working benefit to the average housekeep-Every family is a law unto itself; each individual has his own needs, and if the cook were to attempt to figure out hold needed and to express the result in and leave all night .- L. C. kilograms and calories, there would be little time left in which to prepare food.

should be starch and the remainder pretty equally divided between protein and fats. As to the amount of food each person should eat, what writer or experimenter is to say? The wife and mother who does what will keep her brood in good condition than any outsider could possibly be.

It might be well to say that the commonest error consists in giving too much using alternately half-inch layers of salt have to take the place of the protein of Parsley and celery preserved in this way meat, with a resulting detriment to the will keep all winter .-- L. M. T.

THE MICHIGAN FARMER.

body. Too much starchy food is bound to cause indigestion, especially when the food is not properly masticated and the NCE the fluffy feather bed of our starch thoroughly mixed with saliva in the mouth. If you can not get meat, its lack should be made up in other ways. of these relics, left in the home, becomes Eggs you can have in plenty if you take proper care of your poultry, and fowls are yours for the growing. Codfish can be bought and kept indefinitely and made housewife can make use of quite a num- into codfish balls or creamed, with real ber in different ways. Possibly the ones cream. Salmon and other canned fish may be kept on hand and prepared in tempting ways.

Dried beef can be bought in glass jars and a dozen jars may be bought at a time. This is fine if shredded and cooked in butter until the edges curl up, then stirred into a good milk gravy. Or it can be "frazzled" in the butter, and a half dozen eggs broken into the frying pan and scrambled with the beef. Potted meats of all sorts may be bought and kept on hand to replace, in a measure, the lack of fresh meat. All these things will help the cook to answer the eternal question, "What shall I get for dinner?" and will prove much better for the family than the unvarying diet of potatoes, vegetables, pie, cake and cookies.

A liking for vegetables should be encouraged in the members of the family, Not only do vegetables make for health, but they are much easier to prepart in hot weather than cakes, cookies and the like.

As for the "well-balanced menu," the following sample meals give a fair idea of what is needed in the days dietary. From them the cook can plan others which fit her needs and suit her family: BREAKFAST.

Fruit. Oatmeal, farina or other cereal. Cream. Sugar.

Coffee with Cream and Sugar. DINNER. Beef, braised, roasted, or a steak,

Potatoes, Creamed Cabbage. Tea. SUPPER.

Baked Potatoes and Salmon Loaf. Sliced Cucumbers. Berries and Plain Cake. Tea.

BEAN WATER IN THE SINK.

When first the odor comes up from the washing of pots and plates from which beans have been taken in the sink drain, there will be a great shock to the housekeeper who does not know what this is. The first thought will be of sewer gas, most vile and deadly. Visions of typhoid fever and diphtheria will flash into the mind. The doctor will be called or the health officer, and the plumber will think his time has come for not fixing the traps so as to keep out that awful deadly smell. It is really quite harmless, nothing more deadly than its offensive odor that can be readily removed by pouring down the sink several pans of strong lye This is a good disinfectant, besides being a deodorizer and keeps the grease cut in the pipes as well.

SHORT CUTS FOR HOUSEKEEPERS.

In mending checked or plaid goods try threading several shades of silk into the needle using colors found in the goods. This blending of shades will prevent the darn showing as it would had only one color been used.-L. M.

When straining jelly turn a kitchen chair bottom up on the edge of the table and clean well. Then tie a piece of cheesecloth, double, on each leg. Do not allow too much fullness. Place a dish big enough to hold the juice under the bag, on the chair seat, pour the hot fruit just what each member of her house- into the bag and cover with a thin cloth.

For those who use kerosene to kindle the fi like those the men use for o'ling the ma-For ordinary purposes it is enough to chinery and fill it with kerosene. It is know that about 60 per cent of the food much cleaner and more handy than using the large can, or a bottle. (Will the correspondent kindly send name and address?)

A little green parsley or green tips of celery are often needed in winter. In the cooking is in a better position to judge order that they may be always at hand take a good sized fruit can and in the bottom put a half inch layer of salt, add a layer of parsley or celery and repeat, starch. Meat is expensive, and in farm- and two-inch layers of the green foliage. ing communities hard to get; so pies, cake, Press down and fill the can as full as cookies, bread and butter and potatoes possible before screwing on the cover.

Haste and Waste

Stop and think for a moment the next time you are about to buy soda

Instead of hastily buying soda crackers that go to waste because broken, soiled or soggy, buy

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THE MICHIGAN FARMER.

HOME AND YOU

HALLOWE'EN.

BY L. M. THORNTON.

The little folks frolicked on Hallowe'en
And they frightened the timid, I'll own,
For a pumpkin lantern's a sight I ween,
And a tick-tack may sound like a groan.
But the fun they had made the whole
world glad,

world glad,
And who would envy a lassie or lad
The pranks they played, or would call
them bad
On the night of Hallowe'en.

And the lovers they courted on Hal-

lowe'en,
Way down by the river side I know,
And he called her his sweetheart and his queen,

queen,
And she was content to have it so.
But their love confessed made the whole
world blessed,
Since Love is of all Life's joy the best,
And love is the favored sport and quest

On the night of Hallowe'en.

'Tis a merry old world at Hallowe'en, And the passing seasons come and go, But we keep in memory each dear loved scene

And Life is surely the better so, or 'tis childhood's truth and the joys of

That anchor our world-tossed souls, in

And God's is the Hallowe'en.

AN HOUR OF MYSTERY.

BY FRANK H. SWEET.

Tricks of magic and feats more or less mysterious and uncanny should have a place in any program prepared for the entertainment of friends on Hallowe'en, Explanation of a few feats, comparatively simple yet fascinating and entertaining, besides being possessed of no little educational value, is therefore not out of place at this time. It will be seen that by a little thought and ingenuity the processes described may easily be adapted to and utilized in the presentation of almost any Hallowe'en entertainment.

Phosphorescence.

Nothing in the world is more like "bot-tled moonshine" than phosphoric oil—a light without heat. Astonishing! But it is so. The light emitted by phosphoric oil is an unearthly, spiritual kind of light. However near we are to its luminous influence, it nevertheless always appears to be at a distance. It is probable that light from this source will, at some time in the future, have a practical application in places where the common artificial light would be dangerous. Indeed, many of our readers may perhaps live to see the phosphoric lamp used in dangerous mines. For experiment, take a thin glass vial, about half fill it with olive oil, then drop into it a piece of phosphorus the size of a bean. Now place the bottle in boiling hot water until the oil is quite not; shake it now and then, and the phosphorus will dissolve. Keep the vial well corked and let

Magic Pictures, First sketch a landscape in India ink. Pyrenees. However, a scene appropriate to Hallowe'en may be substituted. When complete, touch the sky and frozen lakes with a solution of acetate of cobalt. The serted. thatch of cottages and some of the flowers must receive an application of a solution of muriate of copper, and the trees and like a dingy brown ribbon, into the dying sward are treated in a like manner with underbrush that hedged the road, came muriate of cobalt. All these solutions at last to the happy little hollow, which pretend not to hear him. He had been should be used in varying strengths, ac- she knew, between the two round hills. hiding too long. She would pretend to be cording to the depth of color desired, and applied with care and skill. These liquids der hidden spring, was still green. Here, will impart little or no color to the pic- the violets were always the bluest, the ture, and, when dry, it will remain as be-cowslips the yellowest, and here the birds deep shadow in her eyes seemed to light-fore, a "white scene." But if at any time came first, in the spring, for the mating, en a little. the picture be held to the fire, or slightly robins, bluebirds, and the tiny song sparwarmed, the scene changes; the sky berows with their "Sweet, swe-e-t, afraid. Where could he be?
comes blue, the ice and snow melt away bitter." But summer was gone now, and In a sudden panic she pu from the trees and grass, and they asthe little hollow was very still.

open lunch box and hurried again to the
sume a foliage of a lively green; the flowOn the hills was crimson sumach, like stone wall. He was not there. He was sume a foliage of a lively green; the flowwill enable one to bring out almost any dead stalks of golden rod. In the field pasture to the left where the white horse sort of scene desired. When the picture beyond an old white horse turned out to becomes cold, it passes again to its origi- pasture nibbled the short grass. Sounds ing in that clump of elderberry bushes at nal tint, thus exhibiting strikingly the of life and industry, from the country

much amusement. Fire Pictures.

You can surprise and amuse your touching with the still glowing matchstick a sheet of blank paper. A spark of
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burned trace, which, will form a name, a picture of an animal, Emily had been busy with the baby, and or any other design you choose. The pa- Robert was upstairs. She laughed a litper, of course, has been prepared before- tle, gleefully, like a child. hand, and in a very simple manner. All you have to do is to trace the design with He cried, and he was so very little not a pen, a fine brush or a stick dipped into a rowdy armful like—like, whom—like a strong solution of saltpeter. The draw- Billy, of course, Billy. Now, she almost ing need not be made of one continuous remembered. Where was Billy? line, but it must all be connected together. point.

Saltpeter, which is also called niter and potassium amount of oxygen, which it gives up she reached it and peered over she gave readily to such substances as wood and their old familiar call. paper, burning or charring them. Ordinary burning or charring, indeed, is due to the action of the oxygen of the air, there, his rougish face brimming with hence the parts of the paper under the love and delight, his fat, cramped, brown saltpeter drawing are very inflammable, legs, scratched with branches. and a spark applied to one point will run very strange. along the whole design. The paper along the course of the tracing has been conaddition of the saltpeter, for gunpowder Billy that had now been eluding her so is nothing but a mixture of saltpeter with long, but she could not. He must be sulphur. A goodly number of pictures youth, can be prepared beforehand and "touched her. He would be glad, then, to come to The Pumpkin Jack's and the forms un- off" for the amusement and entertain- rest in her arms. He was a little fellow, ment of the guests.

Liquid Layers.

Everybody knows that some liquids are like an actual experiment to illustrate this important principle of physics to girls and boys, or to grown people either, for that matter. The experiment here described may be made by any careful young person, and it is well worth making, if only for the amusement it will afford. Get a tall wine-glass and into it pour cold, sweetened coffee to the depth of half an inch. Then make a cone of writing paper, with a very small opening at the lower end, and bend that end until it makes a right angle with the cone. Into the cone pour water very gently and carefully, so that it will pass out of the small end against the side of the glass. and thence down onto the surface of the coffee. Make another cone, and through it pour a little claret wine; then, through fresh cone, a little salad oil, and through another fresh cone a little alcohol, making the depth of each liquid the same as that of the coffee, and being careful to let them pour from the small end of the cone against the side of the glass, and not directly down on the liquid already in the glass. Thus you will have five layers of liquid in the glass-brown, white, red, yellow and white-and by pouring them carefully, as has been directed, they will remain separate from each other, simply because their specific gravity is different.

THE MOTHER.

BY MAUDE WOODRUFF NEWELL.

The woman came swiftly up the long, it get cold. Whenever you want a little country road. Sometimes she ran, the moonshine, take the cork out of the bot- little blue scarf on her head blowing back tle, shake the oil, and there will be light. of her like a breath of summer, in the gusty November wind, her long coat flying open and showing her loose house It should represent either a winter scene dress. Her slippers were absurdly thin have her tell him stories, and which or a mountain district—the snowy Alps or and high-heeled, not made for country should they be? She decided that, today, or a mountain district—the snowy Alps or and high-heeled, not made for country walking.

the yellow, dusty, road was quite de-

Here, the grass, nourished by some ten-

ers alter in like manner. A little practice a burning bush, and bracken, and the not behird the big gray rock in the open changes of matter by the application of below, came to the woman faintly, and heat, and at the same time affording she could see, here and there, blue smoke curling up, lazily, from a cheerful red chimney.

She looked about her eagerly, and drew friends very much by lighting a match, a long breath. A faint color, almost imblowing it out when half-burned, and perceptible, flooded her thin face, but her

when completed, the long unlocked porch window, and

She could not love the baby, somehow

She looked vacantly about. He was There must be no detached parts, as playing tricks upon her again. He was the spark has to travel from point to always playing tricks. Perhaps he was hiding behind that stone wall.

She tiptoed over to it stealthily, her nitrate, contains a large mother eyes full of happy mystery.

"Who, who," she cried gayly.

But no little boy was crouched hiding That was

She sat down upon the warm side hill where the sun shone upon her and tried verted into a sort of gunpowder by the to remember this hidden something about charcoal, and the still more combustible playing somewhere about. He would come soon when he was tired of vexing for all his strut, such a braggy strut it was, too, in those tiny blue overalls.

She carefully untied a small box that lighter than others. But there is nothing she had brought. In it was a bit of brown toast, a bunch of white grapes some apple butter, the dainties she could gather up the quickest from her own lunch table. He would be hungry when he came. Billy was always hungry. Robert said he had a limitless stomach.

She dreamed happily, looking around the pretty, green hollow, the toy lunch box open upon her knee, her thin hands lying listlessly in her lap. She loved this place. Billy and she were always picnicing here. It was the first place to which they hurried when summer brought them out to live in Arden. Even Robert had only been here once. It was just her place, and Billy's.

A soft lethargy lay over the naked woods beyond. The tiny brook that had raced there, singing, through narrow green banks, now crept sluggish and chill in its dull pathway. She could not see it but she could hear its faint rippling. The shabby weeds beside it shivered with ghostly rumblings at every wind. In the distance the faint blue haze of Indian summer veiled the hills.

She moved a little so that she could lean against the trunk of the one tree that grew in the hollow, an old, useless, twisted apple tree. She looked up at it curiously, following out the tracery of its naked branches. This interested her, and she pondered over each oddly shaped twig for a long time. A small brown bird hopped silently about, his eyes upon her in sullen distrust, and she watched him, childishly pleased when he ventured nearer. She grew rested. Once she smiled.

Suddenly, she fancied she heard the familiar boyish chuckle. Ah, he was com, ing at last. He was ready now to be forgiven and petted and fed, ready also to she would tell him of the little pigs who Once she looked back in hasty fear, but set out to make their fortunes. Then he could be the little pig, and squeal defiserted.

antly, "No, no, by the hair on my chin-y,
At the top of the first small incline she chin, chin," and she would be the horrid turned and, taking the path that wound, wolf and growl, "Then I'll puff and I'll puff till I blow your house in." He would like that story. But, first, she would very angry.

She waited, without turning, a faint, expectant smile upon her thin face. The

But he did not come. Then, she grew

In a sudden panic she put down the was slowly nibbling. He was not crouchthe edge of the wood. He was not hiding behind any of the trees. He was not anywhere there.

She stood up, unnaturally straight, and called her heavy eyes wide and strange, "Billy, oh, Billy, who-oo, who-oo."

Did he answer? She listened. Perhaps where the brook widened out into the

WISE WORDS

A Physician on Food.

A physician, of Portland, Oregon, has views about food. He says:

"I have always believed that the duty of the physician does not cease with treating the sick, but that we owe it to humanity to teach them how to protect their health, especially by hygienic and dietetic laws.

"With such a feeling as to my duty 1 take great pleasure in saying to the public that in my own experience and also from personal observation I have found no food to equal Grape-Nuts, and that I find there is almost no limit to the great benefit this food will bring when used in all cases of sickness and convalescence.

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tore it away savagely, fluttering and looked everywhere for you!" His voice wrecked. Once she fell and the briers shook. tore her thin hands and drew the blood. "Why did you come here, Lucia—how

She lost the dim path. seemed endless. Ahead of her there was no opening. She forgot how long she had her. been running, was it weeks, or years, or

Suddenly she knew that once before she had run like this through this crazy wood. It grew strangely familiar to her, as when with a sudden rush of words. one wakens from a dream, terror-stricken, only to sleep and dream it all again. Once before she had fallen and struggled to her feet, and ran on again, screaming, as she was running now.

"Billy, Billy, who-oo, who-oo," it blubbered on her lips and left her gasping.

The water was before her, not a deep other time, but a thin, weak, November stream, flowing stilly between narrow brown banks.

Her eyes strained over it. Was he out there, little Billy? Was that his shining yellow head, were those his childish arms reaching out toward her, as he fought for the breath of life? No. no, he was gone he was gone.

She stood, sick and shuddering, upon the bank. He was not there, now. It was the other time that she was remembering, and he had gone down, and when she had reached him it had been too late.

She screamed shrilly, her arms above her head.

"Billy, Billy, who-on, who-oo."
God! she remembered now. She had forgotten he was gone. He had been gone ever continued strain of worry. since that blue spring day when they had come picnicking, he and she, and she had missed him, after a little while, and run, as she had run today, and seen him go down, down into that toy river, and then Ah, Robertshe had forgotten everything and dropped

out of life. The baby had come since then, but she did not love the baby. She wanted Billy. Oh! her little boy, with his yellow hair, and his scratched, brown legs. She wanted Billy. She had some apple butter in the lunch box, and grapes. Billy loved apple butter and grapes,

She screamed again, her poor tortured reached out and brooded over the man. memory groping its way out of the fog that had so long held it. She beat the air with her thin, white, hands. He was such a little fellow-and the water so black and deep-and mother so near-just hands, finding the child's instead. there—upon the bank. She cried out sharply, remembering. Why had she remembered. She did not want to remember. She was afraid to remember.

Then, something touched her, and she turned, choking, her eyes wild, her thin face discolored under the blue scarf.

A child stood beside her, his fat brown hands tugging at her dress, his childish eyes troubled.

"You sick?" he questioned, unafraid. She gasped and bent down to him, grasping his stubby fingers. He did not shrink.

"Who are you?" she whispered. "Are you Billy?'

He leaned toward her confidingly, shaking his curly head in silence. He wore the familiar childish blue overalls, and his eyes were blue, but his hair was brown, not yellow like Billy's.

She studied him, puzzled, trying weakly to understand. He was not quite Billy, and yet—she put out her hungry arms and gathered him in—he was an armful

He put one hand, comfortingly, to her thin face.

"Poor lady," he pitied. "Poor lady, so

"You were gone so long, Billy, mother was frightened," she said.

He was heavy. She tried to lift him and could not, so she sat down upon the ground and held him close to her.

"Perhaps you are not adoubtfully. "I do not remember. Billy shair was yellow. Do you like apple buthair was yellow. Do you like apple buthar lap. "I like apple butter, shyly. "I like grapes, too."

She smiled at him through her tears.

She began to sob a little, softly, feeling the warm childish body close against her, seeing his hair damp in his boyish neck. She tightened her starved arms about him as the sobs tore her. She had not cried for a very long time.

Then she saw Robert. He was running, and behind him, Emily, the nurse, white and shaking.

"Lucia, Lucia."

He knelt beside her, his great arms locking in her and the child also. His anxious eyes tried to read her tears.

"You have frightened us. We have

The wood could you come here?"

She shook her head, the sobs strangling

"Who is the child, Lucia?" he asked,

an eternity?

And then, as she ran, something struggled to life, dimly, within her memory. "I do not know," she tried to answer.
gled to life, dimly, within her memory. "I do not know. I came here, but Billy
Suddenly she knew that once before she was not here."

He looked away silently. She went on everywhere, but I could not find him, and then I was afraid, and I ran, and then I remembered. It was here, Robert, in the spring, before the baby came-I remember now."

He tried to lift her up.

"Lucia, sweetheart, come away."

"I remember now, only sometimes, for rushing river now as it had been that a minute or two, it goes again. I remember now-Billy-

"Dear, come, please come. Who is the child?"

"I do not know, Robert. I screamed, and he came. He feels like Billy, but it is not Billy, is it?" wistfully.

The man threw out his arms, and his voice broke.

"No, it is not Billy."

His voice startled her. She looked at him strangely, seeing his face as though for the first time in a very long while. There were lines upon it, deep lines that she could not remember ever having seen before. She stared at his hair. It was very gray over his temples, and his cheeks were thin. His neck was thin, also, wasted, as though from some long

"Why, Robert," she whispered, and put her hands to his face. "Why, Robert," and her voice grew frightened. "Poor Robert, I forgot that you loved Billy, too!

The man buried his face on her shoulder for an instant and shuddered.

She mothered him silently, with a strange, weak, surprise that she could ever have forgotten him and left him to bear anything alone, feeling a little rush of new strength thrill her as the new need for it arose. The mother instinct within her, left desolate by the child,

"It has been so hard for you, Robert, and I could not remember all the time. All summer I did not remember-how strange it was-" she groped for his

"Look, Robert, at the little stubby fingers like Billy's, and his fat little legs. Robert-"

She stopped, hesitating, and struggled for words seeking dimly for some meaning to this mystery and horror that had dulled her reason.

"Perhaps, perhaps, this is what was meant, perhaps this is what is always meant-

"How do you mean, Lucia?" he asked gently.

"Why-poor mothers weeping for their children because they are not, and yet the world full of children weeping for mothers they have 'st or never known."

It seemed to her, suddenly, that the whole universe waited to be mothered. She looked at him wistfully.

"Robert—I wis! could we take him a little while until the be'y gets bigger. He just fills my arms, like Billy. Could we, perhaps, Robert, until I get better and remember all the time?"

"Yes. Anything, anything is yours,

Robert Austin's tone was grimly final. He leaned over the child. "We will beg him, or be row him, or steal him. Where do you live, little man?"

"I live with Aunt Prissy, up there," pointing vaguely up the country road where a shabby farmhouse just showed its dirty unpainted eaves. "She says I too much. She hugs Frankie and Martha, she never hugs me. I like to be

Whene, or the penurious manager of the large store wanted to sharpen his pencil, large store wanted to sharpen his pencil, he would enter the shipping department and borrow a knife from one of the boys. Sometimes the boys did not have their knives with them, but there was one lad, Tompy Breen, who always could be depended upon.

"How is it, Tommy?" asked the manager one day as he whittled his pencil. "that you always have your knife with you, and the other boys haven't?"

Tommy hesitated for a moment, then gathering courage, said: "The wages I get aren't enough for me to afford more than one pair of pants."

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