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FARM NOTES.

Alfalfa for Low Land.

Alfalfa for Low Land.

I would like some information regarding the sowing of alfalfa. I have a four-acre lot of black soil situated near the bank of Grand river and every year about the latter part of March the river overflows its banks and water stands on the crops for a period of from one to two weeks. The water is cold at that time of the year and we have not had much trouble with water doing the crops much harm. Would you advise me to prepare a good seed bed and sow this fall or wait until next spring? Would it be beneficial to sow some crop that could be plowed up next spring and seeded down to alfalfa?

Kent Co.

Bottom land that overflows in the spring

Bottom land that overflows in the spring would not be well adapted to alfalfa. The one condition which is said by those with long experience in its culture that alfalfa will not endure is a wet soil, that is, a soil where the water level is comparatively close to the surface. The flooding of the land for a short time in the very early spring might not ruin the stand, but land that overflows should be tried in an experimental way, if at all, for alfalfa. It would seem a much better way to experiment with this by sowing it to grasses better suited to the location, such as alsike, clover, timothy and perhaps one or two other grasses, and mix in some alfalfa seed, sowing a small plot to alfalfa This will demonstrate whether the soil is too low and too wet to grow the crop satisfactorily or not and in the event failure will not be as expensive in either the cost of the experiment or the time for which the use of the land is lost for other purposes

Dressing Alfalfa-Disking-Seeding in Wheat.

In Wheat.

I would like to learn through the Michigan Farmer if you advise top dressing alfalfa. How many loads to the acre? Also, if disking is good, and what time of the year to do it? I would also like to know if a seeding will be successful in wheat if the ground is top-dressed and then dragged with spiketooth drag directly after sowing the seed? We have three acres of alfalfa on our farm and wish to sow eighteen acres more in the spring if it can be successfully done in this way. Jackson Co.

F. E. W.

proper culture of alfalfa which it is diffi- next season. experience with it in Michigan, that we

conditions than amount of advice from others. It is for this very reason that our readers have been urged to sow alfalfa in an experimental way at least, and try out the ideas which they get regarding it. This the inquirer is doing, and his experience will be of value to other readers, but there little experimental knowledge by which one can be guided in giving an opinion on some of the points raised in this inquiry.

So far as top-dressing alfalfa is concerned there is probably no doubt that will benefit the stand and the crops produced to give it a light top-dressing of stable manure once in two or three years.

the alfalfa plant is supposed to be yet the manure will benefit it by its be accomplished. mulching effect and in adding vegetable matter to the soil and by promoting the activity of soil bacteria not a little. Howtoo thickly. A thin dressing will be sufficient to answer the desired purpose and will have the advantage of obviating any danger of smothering out plants and inone case where the stand of alfalfa seem. ed to be harmed by the application of a

While stable manure is rich in nittrogen pose of killing the weeds and grass and grass in case the alfalfa fails to make a letting the air into the soil, as well as able to provide for itself in this direction, mixing the manure with the soil would ment would be a valuable one. It is a

have tried it in Michigan seem to favor seeded in grain in the spring with a view best authorities in the more humid regions proper bacteria. This also will help one juring the stand. We have seen at least not to disk the alfalfa. Thus it will be with manure or otherwise. Where the during the growing season, although it is should experiment in this regard and disk probable that as heavy an application at least a portion of his alfalfa and note in this way. Where the seeding is done

View of a Section of the Grain and Vegetable Exhibit at the West Michigan Fair.

whatever, and it is not at all likely that by the object lesson afforded. winter season would be the most convensolve all these vexed questions which ing hay crop, and the roots of the plants

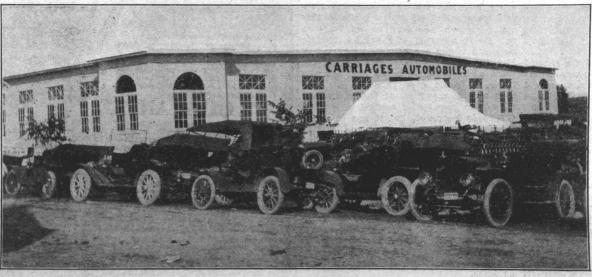
might have been made during the late fall the comparative results, not only for his do of clover, it will revolutionize the or winter when the plants are practically own information, but as well for the ben- methods of growing it in this state and dormant without any injurious effects efit of others who would gain information add greatly to its popularity. We believe

cult to answer on account of our limited dressed with stable manure the fall or periment in almost any Michigan locality, that this will be the case. In fact, one While in a few instances alfalfa growers of the best seedings of alfalfa which it fear many readers will feel that it is not lent and best time to apply the manure. have secured good stands of alfalfa by has been the writer's pleasure to see this worth while to experiment with it. But Then it will get well settled to the ground sowing in wheat the same as clover is season was seeded in oats under just the it is by experimenting with it that we will and will not be raked up in the succeed- usually seeded, this plan has not been so same conditions as clover would have been generally successful as to make it safe to except that the oats were sown thinly, a those who have had successful experience will get a greater benefit from the plant predict success where this method of fact, however, which did not lessen the with alfalfa are now apt to answer in food which will become incorporated with seeding is employed. The writer would yield of oats. Thus if in seeding alfalfa But actual experience the soil. Where disking is practiced this hardly like to try an 18-acre field in this with wheat we do not get a perfect stand gained on our own farms and under our may best be done in the spring after the manner, by sowing the alfalfa alone. But or if it is a complete failure we cannot own conditions will tell us more about how manure has been applied in the fall or if some other clover seed is mixed with ascribe it wholly to the method of seeding to grow alfalfa successfully under those winter, as by this means the double pur- the alfalfa seed so as to make a stand of unless we have grown the crop with suc-

good stand sown in this way, the experigood plan, and one which a good many As to the desirablility of disking, there farmers are following at the present time, is some difference of opinion. Those who to sow a little alfalfa seed with the clover ever, it is not best to apply the manure the practice almost to a man, as do the of getting the soil inoculated with the where the crop is grown. In Colorado the to the information which this inquirer is experiment station recently issued a bul- seeking, as to whether alfalfa can be sucletin in which growers were recommended cessfully seeded in wheat by top-dressing seen that it is a matter of choice of au- seed is sown alone without any nurse thorities, how one should advise upon a crop, it is not a good plan to top-dress heavy coat of manure as a top-dressing question of this kind. Every grower with stable manure on account of the weed seed which is sure to be distributed in wheat this objection would not be as well founded since the weeds would get little start until after the wheat was harvested, and could be easily clipped back later in the season. But of the two methods of preparing the ground for the seeding of alfalfa in wheat the writer would prefer an application of lime before the wheat is sown, unless positive that there is already plenty of lime in the soil, since it seems to be pretty well demonstrated that the presence of a good percentage of lime in the soil is an essential to success with the crop.

Were this case the writer's he would sow a part of this field to alfalfa alone in the wheat, and the balance of it to a mixture of alfalfa and June and alsike clover with such other grasses as may be desired. In this way one would get valuable knowledge from the resulting experience and by top-dressing a portion of the field in a strip running the other way across from that in which the seed was sown, and by applying lime to a portion of it in the same way, one could not help gaining some valuable knowledge from the experiment. If we can get seedings of alfalfa in our grain crops the same as we that as soon as we have gotten our soils So many questions arise regarding the in this case the damage will be apparent. As to top-dressing wheat and seeding well inoculated and the plant thoroughly roper culture of alfalfa which it is diffinent season. Where alfalfa is top alfalfa in it, that would also be an exacclimated to our climate and conditions

> ess on other land on the same farm. It may be the lack of lime, the lack of proper inoculation or unsuitability of the seed, or a dozen other conditions which causes the trouble require careful study to solve. On the other hand, we may succeed at the first effort, since all these conditions may which make for success with the crop. Thus it is impossible at the present time to give much positive advice with regard to the methods to follow in seeding the crop except in a general way, which is an added reason for general experimentation with the crop by the farmers of the state, as none who have had any experience



View of the Front of the New Carriage and Automobile Building at the West Michigan Fair.

(2)

with it can fail to concede that its addi- than formerly. In many townships the tion to our list of dependable forage crops assessments for highway purpose ture of Michigan

Salt and Lime or Plaster as a Fertilizer. Will you please give us information in regard to salt and lime, equal parts, as a fertilizer, or salt and plaster? Where a person has not the stable manure, will it pay to put on either of the above, and how much per aere? If so, what kind of lime in order to mix?

St. Joseph Co.

A. P. T.

Such a combination would not be profitable as a fertilizer, since it would not be a fertilizer at all in either fact or As before noted in these columns salt adds nothing of value to the soil as a plant food, and the only possible benefit from its use would be as a discouragement to insects with which the soil may be infested, and there is a difference of opinion among farmers as to its value in this connection. Lime however, is a valuable soil corrective, correcting an acid condition of the soil where it exists, and supplying lime in an available condition for such plants as are benefited by lime either directly or indirectly, among which alfalfa is the most conspicuous example.

SOME UPPER PENINSULA EXPERI-MENTS.

We are trying a variety of new things cover the ground. in the farm line this season and some of the problems that have come up are beyond the writer's experience. In the first place, we let a contract to clear, including the removal of all stumps, an old homestead clearing of 20 acres. We have just seeded it to timothy, 8 lbs.; red clover, 3 lbs., and alfalfa 2 lbs. to the acre, except two acres which we put into winter wheat, with timothy and corn. If the alfalfa thrives we will lime this piece and make it solid alfalfa about four years from now.

Our next experiment is the clearing and drainage of a 40-acre swamp. The black muck is about one foot to three feet deep and there is a clay subsoil. Most of the water comes from springs in a nearby hillside and the swamp is about 1,500 feet from the Ontonagon river and eight feet above it, so we are for the present relying on surface drainage by several large ditches. As fast as we plow it we are cutting it up fine with our heavy disk harrow and later a light garden harrow and then we intend to give the seed some sort of a ted. We figure that in a few years the grass will rot and most of the roots and we can then plow very easily. Wherever we cannot clean up and seed we hope to seed very lightly to red clover, which is nearly a weed here, in order to can be occupied. There will be about one thousand acres of that land. Of course, the labor problem is our greatest. We these undertakings. We are experimenting with yellow flint corn and have found done in the winter time as in late sumgetting better ears and yields. We are find it very vigorous here. Liming the soil is apparently more necessary than Seed has ripened on sixinoculation. year-old plants this year.

T. A. GREEN. Ontonagon Co.

A PLAN FOR HIGHWAY IMPROVE-MENT.

An experience of now practically two seasons with the present highway improvement system enables us to form some conclusions regarding its efficiency, there is a move towards doing consider-Judged by results in general, a comparison with the former method of highway labor, with a money tax added, the pres- lutely idle last winter a sufficient time ent system suffers. This does not argue to have graveled all of the roads in this that a return to the old way is desirable, but that some improvement is needed in present methods.

proving. While in and the ruts and last winter's mudholes have been neglected and new ruts are being made, and the repairs in all of these cases have been meager, not enough to maintain the average condition of the roads. This is a condition that is observed and commented upon.

cials, as we have just as good men on were gradually improving. to it. One is that the highway expendi- at issue. tures are probably in many cases less

would be a great blessing to the agricul- less than the total of money and labor levied under the old system. And, after all that has been said in criticism of the manner in which the labor was dawdled and wasted, the fact is that most men have a due amount of public spirit and pride in the highways, and the for the most part was honestly and faithfully performed. Another, and probably the greatest of all, is that it has been impossible for the officials to obtain the help at the proper time. The law contemplates that the greater part of the work shall be done during the fore part of the season, and it is admitted that this is the best time of the year for doing it. But at this season all of the help is busy on the farms and is not available for more than a small fraction of what work is needed. High wages must be paid for what is obtained, and so the appropriations are sooner expended. In these ways the season passes and the money used up and not nearly enough work done. Another difficulty that has been named is that not enough men are provided to properly supervise the work, but probably if the means and men were available the present officers could put in more time by considerable and so more fully

> Now, it is up to the people to meet the weak points in our system, for it is evident that some of them cannot be overcome by the most capable officials. If the work were undertaken by a private concern doubtless the first thing would be the purchase of four or five good teams and keep them at work the season through, for in any ordinary township there is enough work to keep such a force busy. But probably this would not be expedient for a township to undertake. Next to this would be the employment of this number of men with teams for practically the whole season. This, of course, would not be doing the work at the most approved time of the year, but it would be getting it done, which is the important Help in this way should be obtained for \$3 per day for man and team for the season of, say, six months. Not much could be done in most parts of Michigan before the middle of April, and it is not expedient to attempt to do much after the middle of October. This would call for an appropriation of something like \$3,000 per year for work and material, which is not far from what many townships averaged under the old system, where no expensive bridges were needed.

Another method would be to plan to do considerable of the work during the winkeep down the brush and weeds until it 'ter season when men and teams are otherwise idle. The necessary grading can be done during the summer, and the holes and ruts kept in repair, but the greater will gladly have the advice of others in part of the work required in most places is hauling gravel, and this can as well be no difficulty in ripening it here for four mer or fall, as is too often the case at or five years past. Each year we are present. It is admittedly better that the grading should lie for a time before the also growing alfalfa in a small way and gravel is applied, so that graveling, if done in winter would doubtless be as expedient and profitable as if done at any other time. Help could be more cheaply obtained at this time as well. Farmers with just a little sense of economy would much prefer to do the work for \$2.50 in winter than to pay taxes to pay \$3.50 for the same work in summer, perhaps to smoeone who would scrap with the overseer because that official wanted full time and full loads for the money.

In the immediate vicinity of the writer able work next winter with donated labor. There were men and teams absolutely idle last winter a sufficient time entire section. As long as we have to pay for it, anyway, why not do it while help and teams are idle rather than pay At present it is doubtful if the general high taxes to pay someone for doing the condition of the country roads are im- work at a time when no one has the time or travel over poor roads. improvements have been made, yet quite may not, in many cases, appeal to men largely the patching has been neglected, as a very practicable method of getting the roads improved, but it has two features in its favor, economy and getting the roads improved.

It is certainly up to the people to devise some means other than we now have, as has already been said, and what shall it be? There is a loud and growing protest This is a matter that probably is not against the roads in their present condidue to any lack of ability or efficiency on tion. As a certain president has said, it the part of the highway construction offi- is a condition and not a theory that confronts us. In some places Michigan roads these offices as formerly, when roads do not compare favorably with those in were gradually improving. There are surrounding states and there is a repudoubtless different causes that contribute tation as well as convenience and profit

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HOW TO GROW ALFALFA IN MICH- lead me to the contrary opinion on both IGAN.

one of the most important crops in Michigan. With plenty of silage and alfalfa hay our dairies will become much more that were heavily loaded with seed. I profitable, and all lines of agriculture will be more successful. On account of its farmers in Michigan who are growing high protein content alfalfa can be made alfalfa successfully on sandy soil. to take the place of grain feed to a large extent.

During the past three years I have traveled over a large part of Michigan and have made a constant study of the successful alfalfa fields, and I am fully convinced that, with proper preparation, corn crop with the least labor and exalfalfa can be grown successfully on al- pense is now uppermost in the minds of most all the farms of this state. At the most farmers. Many dairymen will say present time, however, there are very few "Put it in the silo." This may be true farmers who are growing this valuable of a large part of it for the farmer who crop successfully. Why is this? It is has a silo, but many of us are not thus because little attention is being paid to blessed, either because we have not a few fundamental things that must have enough cows or because we feel that for careful attention if we are to succeed other reasons it would not be practical in growing alfalfa. If the following directions are carefully followed there will be few failures in any ordinary year.

Manure the ground heavily with a good is to be sown; or what is better, manure If the cultivated crop is properly cared fodder. for, the soil is left comparatively free of

heavy plow deep. If alfalfa is to follow a down too badly. Where it stands up well cultivated crop, it will not always be this may be feasible. We do not own a necessary to plow the land; but unless the soil is in fine tilth it will be advisable to plow. Alfalfa prefers a firm seed bed, the cutting done and set up after them. consequently spring plowing does not usu- We will not attempt to express an opinion ally give the best results.

will give big results in the alfalfa crop.

Disk the soil to a depth of about three do the work well. About two weeks later alfalfa seed at the rate of 15 or 20 lbs. to the acre, and harrow it in with a peg not cut corn at any price. tooth harrow. On light soil the seed may lated by sowing on each acre from three to five hundreds pounds of soil from an old alfalfa field that is known to be inoculated. This soil should be sown the same day the alfalfa seed is sown, and should be harrowed in with the seed.

The leading alfalfa growers advise sowfine stand of alfalfa. A light nurse crop is often seeded with alfalfa, but it is usually advisable to cut the nurse crop for hay, or else clip it back carly in the seaand let it lie on the ground. The alfalfa will need to be clipped back once fall, but do not clip it back late in the fall as there should be quite a growth left for winter protection.

poor condition, and it is almost always necessary to inoculate the soil the first time we try to grow alfalfa on the farm. fattened. The time will eventually come when we will not need to inocutate for alfalfa as all our soil will be inoculated when alfalfa becomes a common crop. Clover bacteria do not inoculate for alfalfa, but the bac-

very satisfactory returns. Do not buy at nitrogen fertilizers, however, for alfalfa as the legumes take nitrogen directly from the air when the soil is properly inoculated.

ones who are offering their cattle cheap soon will add another ton to the total yield per acre.

Many of those who have made a study tions I have made in these states would a perfect silo.

of these points. Sandy soils, rich in humus and top dressed occasionally, are In the near future alfalfa is to become giving very satisfactory results, and I have seen small patches of alfalfa on the sandy soils of Michigan and Wisconsin would like very much to hear from any

> J. C. McDowell, Agriculturist, U. S. Dept. Agril.

HARVESTING THE CORN CROP.

The question of properly securing the for us.

Several methods are open to us: 1 Cutting with a corn binder. 2. Cutting by hand. 3. Topping, and husking from quality of manure the fall before the crop the stalk. 4. Husking from the stalk and turning stock in during the fall to pick the land heavily the year before and pre- up the fodder. 5. Turning stock into the cede the alfalfa with a cultivated crop. field to husk the corn and consume the

The first method, cutting with the binweeds and in fine condition for alfalfa. der, is out of the question with most Plow in the fall, and if the soil is fields in this vicinity because the corn is corn binder and can not speak from experience with them, though we have hired on what we have had so little experience As alfalfa likes lime, and because this with. The second method needs no comcrop does not do well on soils that are ment. Corn has been cut in the same way slightly acid, it will usually pay to sow for years. There seems to be less im-lime in some form. On most soils in the provement among the small farmers in middle states, from one to two tons of methods of harvesting this crop than any finely ground limestone rock per acre other. Cutting by hand is still the method used on the majority of small farms in this part of the state, and it is claimed inches as early in the spring as you can to be more satisfactory and as cheap as any method where the corn is to disk the soil again to conserve the soil husked by hand or even shredded. The moisture and to kill weeds. Sow the problem is to get help to cut the corn alfalfa seed at the rate of 15 or 20 lbs. when it should be cut. Many men will

Topping secures fine fodder, and less be sown shallow with a drill. At the bulky, and allows of some good feed for time of sowing, the soil should be inocu- the late winter, while the cattle will get the late winter, while the cattle will get most of the husks during the fall and early winter, but it saves little labor as it takes about as long to top corn as to cut it, and practically the only saving of labor is in the handling of the fodder and the gain in time in husking from the stalk.

Husking from the stalk is, of course, ing alfalfa without a nurse crop, and there wasteful of fodder and is not followed to can be no doubt but that this insures a any great extent, except for a part of the crop that the owner may not be able to get cut until it is badly frosted.

The method of turning stock into the field to "hog down" the crop is being followed by stock farmers to quite an extent as a method of handling a part of their or twice during the summer and early crop to save labor. Of course, it is rather wasteful, but perhaps the gain in labor more than offsets the waste. In talking with those who have handled a part of There is no use in sowing alfalfa on their crop in this way I find that most of poorly drained soil or on soil that is in them are satisfied that this is an economical way of handling a part of the crop where there are hogs and steers to be

Calhoun Co.

PLASTERING A STONE SILO.

becomes a common crop. Clover bacteria do not inoculate for alfalfa, but the bacteria on sweet clover and alfalfa appear to be the same.

A stand of alfalfa should be good for several years, but it will pay well to top dress occasionally with well rotten manure. Commercial fertilizers also give about 2 ft. at bottom and taper to 1 ft.

t top. Charlevoix Co.

The plastering on the inside should have a hard finish coat. There is nothing bet ter than good cement mortar for a hard Alfalfa is a great drouth resister after finish. You don't want too coarse sand it is once fairly established. The farmers or gravel for this coat, rather fine, sharp of Michigan and Wisconsin who have old sand, clean and free from clay or soil of established fields of alfalfa are not the any kind. Mix this with good Portland cement in proportion of one part cement this dry year. Many fields in these states to two parts sand. Mix thoroughly when have already yielded four tons of hay per dry so the cement is evenly and thoroughly when the company of acre from two cuttings, and a good rain oughly distributed with the sand, then put on a coat on the inside of the silo from one-half to an inch thick and trowel it down smooth. You will have the best of alfalfa have come to the conclusion kind of a finish and a silo that can not be that alfalfa cannot be successfully grown beaten. If you don't get the surface on sandy soil, and it is a common opinion troweled down smooth, it will pay you to that alfalfa cannot be grown for seed in go over the surface with a cement wash Michigan and Wisconsin. The observa- filling in all the small cracks. This makes COLON C. LILLIE.



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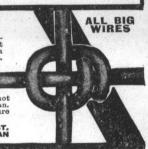
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THE WEANLING COLT.

horse raising is the care of the colt during its first year. During this first year it can get a start in growth and thrift that will give it a good start toward becoming a profitable drafter. On the other hand, it can be stunted in growth and its progress so interfered with that it never will attain its possible size. It all depends on its care and feed.

Just now the matter of weaning the colt, or colts, comes up. It is a problem to get the colt to grow on the feed that its mother and the older horses are eating and to do without its baby milk. To make the change without interfering with the growth of the colt, requires very careful care and attention. Also the colt must be weaned from the company of its mother as well as from the food she has been furnishing it.

If the colt has been left in the stable, as it should have been, while the mare has been worked, little trouble will be met with on this latter point. Colts that have been following their mothers in the field or pasture will need attention in this regard. They should have a good roomy box stall. The stall should be high enough to prevent them from jumping out. If there are several colts they should be placed together in one big roomy stall. They will be company for each other and will be much more quiet than if left alone. When there are no other colts it is a good plan to let the little fellow have one of the quiet older horses with him.

The weaning should be gradual. Sudden changes in feed are detrimental to stock of all ages. Much the more so with young stock when the change is so great as changing from milk to solid feed. The colt should be accustomed to eat oats before weaning time comes. There is no feed that will so nearly take the place of milk as good, bright oats. Clover or alfalfa are the most appetizing and growth producing of all forage crops and the colt may well have all he will eat of either.

It is well to let the colt suckle only a couple of times per day at first. After a few days the intie fellow may be cut down to once per day. Then, after a week or so if all is going well the mother may be kept away entirely.

One common mistake is in cutting off exercise. When we spoke of the big, roomy box stall it was not meant that the colt should be kept in even such a good place all day and every day. The colt needs exercise to keep it healthy and vigorous and to keep it growing. Pasture is usually good at this season. The colts should by all means have the run of a grass pasture lot. It is well to see that the fence is in good repair before turning in colts that are being weaned. They are very likely to try to break out and there is serious danger of injuring themselves in trying to do so. A high woven wire or board fence is always best but every farmer must make the best of what he has. If his fences are neither woven wire nor board, what he has should be put into the best condition possible. bad injury at this time will usually mean a blemish for life.

During the winter following the weaning the colt does not need pampering and hothouse care. It will make a more in the form that they will eat them best, rugged and a better horse if it has a or that they seem to relish them most. reasonable amount of open air and exercise. The old shed, with three good sides and roof and the south side open, is still a very satisfactory winter shed for young horses and colts. Very few days will be so bad that they will not be out in the be better eaten whole and raw. I know lot playing or out in the field roaming some people cook the beans for steers This is just what the youngsters about.

others that is sought in feeding the colt feeding them whatever. it is very necessary to feed growth proof feeding. Not a man who raises hogs the more easily digested. Now beans are will contend that corn is a producer of a food rich in protein and any corbona-bone and muscle. They say that it ceous food like ground barley or corn makes the animal fat and sleek but does meal, or ground rye would be an exnot produce growth. The very same thing cellent food to mix with the beans. Wheat happens when corn is fed to colts. Oats, middlings does very well but it is almost clover, and alfalfa are the bone and muscle producers which can be raised on and you could well afford to buy corn every farm. Corn stover will add variety meal or barley. For the hogs I am conand make the ration very much cheaper. fident that it will not pay you to grind Other feeds will do very well but it must the beans as they will eat them better not be forgotten that the feed must be

such as will produce growth. H. E. MCCARTNEY. Icwa.

FEEDERS' PROBLEMS.

Wheat as a Feed for Hogs.

Is it better to sell wheat at present prices or have it ground as feed for hogs? Is there any other grain which could prof-itably be combined with the wheat? What One of the most important things in drates and fat in the well balanced ration for growing pigs?

Hillsdale Co.

D. L. M.

It will not pay to feed marketable wheat to hogs, either alone or combined with other feeds at present prices. Repeated experiments have shown that wheat is of practically the same value as corn meal for pig feeding. This being the case the question of the relative price of these two grains is the only factor which it will pay to consider. Of course. the adition of a little wheat to the ration might make it more palatable and thus a little more valuable. Experiments have shown this to be the case, a summary of four trials indicating that 485 lbs. of feed made of half corn meal and half ground wheat were required to make 100 lbs. of gain as compared with 500 lbs. of ground wheat where this feed was used alone. Growing pigs require a ration with a narrow nutritive ratio when young and the ration may be gradually widened as they increase in age and size. For the younger pigs the ration should have a nutritive ratio of about 1:4, while pigs of 100 lbs. weight will do nicely on a 1:5 ration, and for hogs of 200 lbs. the ration may be prflotably widened to 1:6 or even 1:7 at the finish.

Rye as a Pig Feed.

Do you think it profitable to have rye worth 63c per bu., ground to mix with skim-milk for hog feed? Or would it be better to sell rye and buy middlings at \$1.45 per cwt.?

Ottawa Co.

J. L.

There is very little difference in the relative value of corn and rye for pig feed, with the difference in favor of the corn on account of its greater palatabil-The question of whether it will pay ity. feed the rye or not is, then, almost entirely one of the relative market price of the two grains, as is the case with wheat. It will pay to feed some middlings in the ration for young pigs at the price mentioned in this inquiry, but midalings should not be substituted for the rye in the ration. Corn would be a better feed to substitute, using from one to three pounds of skim-milk to one pound of corn in the ration. If no old corn is available it might pay to use the rye at present prices for mixing the skim-milk. although corn meal would be a much better feed for the small pigs and as soon as they get a little age they will be able to eat the corn from the cob if it is not dry enough to grind. Middlings is a well balanced feed in itself. The protein in the skim-milk is not needed to balance up this feed, but is needed to balance up the carbohydrates in corn meal. Thus, if a portion of the ration is made up of middlings and corn meal, and skim-milk is given with it, with a little sifted oat meal added, the ration will be well calculated to produce a maximum growth,

CULL BEANS FOR SHEEP AND HOGS.

I can buy cull beans here for 70c per 100 lbs. How should they be fed to best advantage to fatten sheep and hogs or what other stuff should I feed with them? I am boiling some beans for hogs and feeding with boiled vegetables. Would they be better ground?

Cheboygan Co. J. A. McG.

It doesn't matter.

It doesn't matter so very much how you feed the beans as long as you can get the stock to eat them well. Feed them That is the principal proposition. I am not enough acquainted personally with feeding beans to sheep to advise you. Perhaps they would be better eaten if they were ground. Perhaps they would and after the steers acquire an appetite for the cooked beans they relish them much and

I am positive that for hogs the best ducing feeds. It is very safe to draw way is to boil them as you are doing. a comparison with other stock in the case They not only like them better but they too rich in protein to balance up the food cooked, or just as well cooked, as they would to grind them.

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SAVING THE BROOD SOWS.

breeding stock that will produce the stock of animals that will make up the larger market next year. The profits on the economical feeders. stock next year will depend, somewhat, far-reaching, much more so than the majority of swine raisers seem to realize, judging from the slipshod manner in which be kept in mind that to the mother we are to look for many of the desirable characteristics we wish our feed hogs to

Mistakes Usually Made.

When the prices for pork hogs are high, it is too often the case that the farmers able of doing all that can reasonably be are tempted to sell the old sows because they are heavy, can be fitted for market tion before disposing of her and taking in a short period of time, and will bring the chances with the young and untried more ready cash than the young ones ones. The old sow may bring a few more sows can be breeding while they are capable of producing pigs next year that growing and do two kinds of work at the will bring more dollars than the young

tical standpoint the pigs from a mature It is during the fall of the year that sow are worth more to raise and feed for selections are generally made for the market than those from an immature sow for they can consume more feed and utilize more above what is required to susportion of the pork hogs that will go to tain life, thereby making them the more

Other points should be well considered. on the character of the brood sows re- It has been discovered by observers and tained to become the mothers of the pigs, breeders that the young sows do not faras her influence on the young animals is row as many pigs the first time as they will after they reach mature years. The saying of some of the old breeders that judging from the slipshod manner in which "a sow follows the path she marks out the selections are made. The fact should with her first litter," does not prove to be correct. And still farther, the young sows do not save as large a percentage of the pigs they farrow as do the old sows.

While planning for the next year's crop of pigs it is best to give the mature sow that has been tried and found capexpected of a brood sow, due considera-They often argue that the young dollars for pork this fall, but she is also



Grand Champion Shropshire Ewe at West Michigan Fair. H. E. Powell, of Ionia County.

young sows for the old ones.

In the first place, the young sows can feed enough to enable them to grow and farm under modern methods are large, danger of her doing so at the expense of the coming year, give her a chance by the litter she is to farrow in the spring. saving and breeding from them. While she should be well fed on a variety of feeds that will make her grow, making bone, muscles and vital organs, she should not be fed on concentrated feeds and al-

The prospect is that the corn crop of the country will be the largest every servation and experiment, her pigs will be larger and stronger at time of birth than those from the young sow. After the pigs are farrowed, they will give more milk than the young sows, and will enable the young pigs to grow and develop faster young pigs to grow and develop faster.

S3.25@4, according to quantry.

The prospect is that the corn crop of the country will be the largest every grown, and the corn states may be expected to take the surplus of cattle that will come from the west. Wyoming, Idaho and Montana are very short of feed, with less than half a crop of hay, and the theyoung sows, and will enable the young pigs to grow and develop faster belt farmers are in good shape and prepared to do plenty of stock feeding.

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same time; produce pigs and raise them sow is likely to be able to do. It is like and grow meat at a profit at the same repeating an old saying that "we often time. There are several reasons why plan to save a sixpence now and lose a they make a mistake, substituting the shilling in the future." Don't be "penny wise and pound foolish."

The prices for pork meats are high, and not do double duty, for the reason that are likely to be high for some time to their system is not capable of utilizing come. The profits on raising pork on the make rapid gains and raise pigs at the and it is the opportunity and privilege of same time. If fed heavily while carrying every man to make as much money as he the pigs, the life and vitality of the pigs can by planning to draw as much his way are endangered, if not entirely destroyed, as possible. If the mature sows can and If the sow is fed to gain rapidly, there is are likely to bring the most money during

> N. A. CLAPP. Wayne Co.

LIVE STOCK NOTES.

lowed to remain quiet in order to fatten her. A distinction between feeding for growth and the production of fat, profitably, should be kept in mind.

In the second place, to breed from the young sows while growing interferes with their development and diminishes their size. It is a fact, well understood among the observing breeders of swine, that by breeding for several successive generations from immature sows, the size of the breed, as a whole, is reduced, materially, and the prolificacy of the sows of the breed is interfered with to a great extent. I have in mind a breed of swine that a half century ago was classed among the large breeds in fair premium lists, that is now classed as one of the medium breeds.

Some Things to Keep in Mind.

The mature sow that has about attained her full growth will not be required to eat only enough through the winter to maintain her body in good flesh and develop in a natural manner the pigs sais is carrying. She has to do service in only one direction. As has been shown by ob-

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

Diseased Upper Molar Tooth.—I have a mare that commenced to run at the nose last spring and she has had a very offensive discharge ever since. When going into the barn in the morning, the stench is almost unbearanble until I air the stable. During hot weather she discharges most. A. M., Alden, Mich.—If the discharge comes from one nostril, which I presume it does, it is doubtless the result of a diseased upper grinder tooth and will not get well until the tooth is extracted. If both nostrils discharge, she may have a diseased tooth on each side of head and if it is only a case of nasal gleet, give a teaspoonful powdered sulphate of iron at a dose in feed three times a day.

Roarer.—I bought a mare and after I

sulphate of fron at a dose in feed three times a day.

Roarer.—I bought a mare and after I got her home found her wind cut. Can she be made better even if she cannot be cured? F. J. F. Temperance, Mich.—Apply equal parts turpentine, aqua ammonia and sweet oil to throat three times a week and give ¼ dr. iodide of potassium at a does in feed or water twice a day for 30 days. If it is a bad case, it can only be relieved by a surgical operation.

Partial Paralysis.—I have a valuable filly 15 months old that is large and growthy; her hind legs seemed to grow faster than fore limbs. When going through a doorway she wabbles and when turning sharp around she frequently falls. At times I am inclined to believe she has little strength in either hind leg. Mrs. F. B.—Your filly has spinal trouble and will perhaps outgrow it. Give her 1 dr. ground nux vomica at a dose in feed two or three times a day.

Weak Stifie.—I have a three-year-old colt that sprained his stifle some nine months ago. I have blistered stifle lightly and used liniments, but he does not recover. S. B. H., Goble, Mich.—Blister stifle with cerate of cantharides every 10 days.

Chronic Lameness.—During the fall of

stifle with cerate of cantharides every 10 days.

Chronic Lameness.—During the fall of 1907 my horse showed some lameness, caused from a puff in fetlock joint which he recovered from. In the early part of 1909 he went lame and I had him fired for spavin and during the last spring he was too lame to be used so I had him fired for ring-bone, the enlargement being caused from a calk of shoe; now he stands up more than formerly and is not (Continued on page 265).

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AUCTION SALE 200 Reg. Shropshire Sheep, 1910, 10 A. M. All my reserve flock, ewes bred to choice imported rams, flock won all first prizes Ohio State Fair: four silver medals, two silver cups, Michigan State Fair and Sil9 cash prizes, one year's showing. C. H. HUTCHISON, White Pigeon, Michigan.

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TRAINED fox and coons. Also collies. Inclose 2-cent stamp. W. E. LECKY, Holmesville, Ohio.



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Address G. A. Vincent, R. F. D. No. 2, Vernon, Mich.

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HAMPSHIRE RAM LAMBS and several extra good YEARLINGS. All regis tered. C. D. WOODBURY, Lansing, Mich.

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STATE FAIR POULTRY SHOW A RECORD BREAKER.

The present excellent condition of the poultry industry generally was reflected in the splendid showing made at last in the splendid showing made at last in the graph of the splendid showing made at last in the graph of the splendid showing made at last in the unsuperscript of the splendid showing made at last in the graph of the graph of the graph of the splendid showing made at last in the graph of th poultry industry generally was reflected in the splendid showing made at last week's State Fair, as well as in the unweek's State Fair, as well as in meal? usual interest displayed by almost all meal? Emmet Co. classes of people. So far as numbers are concerned it was by all odds the largest show of poultry ever seen at a State Fair The quality in nearly all in Michigan. classes was all that could be asked at this season, and, best of all, most of the coops were filled with commercial poultry, the space consumed by bantams and other stock of the fancy order being unusually

In this respect the show differed greatly from those of previous years, as will be seen from the statement that out of a total of more than 2,000 entries over 1,500 represented stock of the practical, utility kind. Of the slightly more than 1,400 chickens shown more than 1,200 were representatives of 12 breeds which are everywhere recognized as valuable farm breeds. The strictly egg-producing breeds were slightly in the lead, the entries of Leghorns, Polish, Minorcas, Hamburgs and Houdans totaling about 550, of which number the Leghorns furnished nearly one-half. This was more than three times the number of egg producers shown last year. In fact, the number of White Leghorns shown considerably surpassed the total of all Leghorn varieties last year. The strong showing made by the Polish varieties bears out the statement made last year that this breed is rapidly quently be attempted, and however a becoming popular as an egg producer, the breed being represented by 125 excellent specimens, more than doubling last year's showing.

Among the general purpose breeds the Wyandottes led with more than 180 entries, followed by the Rocks with 125; the breed, in the final practical results of pro-R. I. Reds with 115 and the Orpingtons with something over 100, a total of more than 500. The meat-producing section came last with about 150 entries divided among the Cochins, Brahmas and Langshans in the order named. Nearly all breeds were represented in the breeding over 60.

The exhibits of turkeys, ducks, geese and guinea fowls were also more numerous than in previous years, while the quality and variety in these classes were fully up to the high standard which has in recent years attracted so much attention to these fowls. It is unfortunate that the unusual number of entries in all classes so taxed the capacity of the building and of those in charge as to make a careful arrangement of the fowls by breeds impossible, thus detracting somewhat from the value and attractiveness of

IN ANSWER TO INQUIRIES.

Feeding Smutty Wheat.

Will the feeding of very smutty wheat to chickens be injurious to them? This wheat is so bad as to be unsalable. Washtenaw Co. R. A. W.

A few tests have been made by some the effect of feeding smutted grain to cat-The conclusion drawn from these tests is that no bad effects are apparent so long as the smut is not fed to excess, that the grain you describe may be kernels have little food value and if they good weights. are removed the grain can be fed much fanning mill would knock off many of the sitting variety.

spores and blow out many of the smutted kernels, but it would also blow out some of the light and broken kernels.

Using Protein Foods.

The first query is covered by the answer to a similar one appearing elsewhere in

this department.

The digestible protein in old process linseed meal averages about 29 per cent; that is, 100 lbs. of the meal contains about 29 lbs. of protein. The protein content of oil meel runs about the same, while in gluten meal it is somewhat higher, averaging about 33 lbs. It is assumed that you want a ration for laying hens that are not on free range and consequently are able to secure little in the way of insect life. A good dry mixture that has been fed successfully is made up as follows: Wheat bran, 2 parts by weight; cornmeal, 1 part; middlings, 1 part; gluten meal, 1 part; linseed meal, 1 part. This mixture is placed in hoppers to which the hens have constant access. In addition the hens should be given a fairly liberal allowance of whole corn-about 3 or 4 qts. for 100 hens-scattered in litter early in the morning. If more whole grain seems advisable give a little wheat or oats at noon, also in litter.

FOUNDATION STOCK FOR STRAIN DEVELOPMENT.

Whatever cross-breeding may subsestrain may ultimately be made to approximate to particular requirements, fowls of some breed typically suitable for the purpose undoubtedly make the best foundation upon which to build.

Although strain takes precedence of duction, strain cannot be successfully evolved from unsuitable material. Breed. therefore, enters into the question of material, but the quality of the strain depends upon its skillful handling.

Sitting varieties, of what is commonly described as the general-purpose type, are pen classes, the number of pens totaling better qualified to fulfill the usual requirements, and are in general constitutionally better suited to the conditions and surroundings.

The practical advantages of keeping fowls of this type in such situations consist in their hardiness (which is a common characteristic), the fair average table qualities of the surplus stock, the general amenability of the hens to the skill of the egg-producing strain maker, and the color or tint of the eggs.

Although it has been shown that some strains of non-sitters possess considerable possibilities as winter layers, it is nevertheless the usual experience that fowls of the general-purpose type are more consistently reliable for the purpose, and are by no means profitless at other seasons, their incubating habit being of considerable advantage to the farmer. In my opinion the Wyandotte is one of the most useful fowls of this type. The whole variety is among the best for general use of the experiment stations to determine if the individual fowls are selected from a stock that has not been forced for competitive purposes or simply bred to an exhibition standard. Its capabilities as a layer are well known, and as a table fowl and upon these results we base the opin- (other than one bred solely for that purpose) it possesses some advantage of size. fed to your chickens in moderate quanti- and carries a considerable amount of good ties. However, if the wheat is badly af- quality breast meat, combined with a fected with smut some of the kernels will smallness of bone which is desirable in be nothing more than shells completely any but a certain class of market producfilled with smut spores and the feeding tion. The chickens are hardy, easy to of these might prove injurious, especially rear, and reasonably rapid growers. Beas some fowls are apt to get an excessive ing by nature docile, they respond well to quantity of such kernels. Then, too, these special feeding for table use and attain

The color of the white variety is no dismore satisfactorily. Probably the best advantage to a country poultry keeper, way of removing them is to pour the grain the appearance of white fowls being nointo a vessel of water before feeding. The where so effective as on the fields. The badly smutted kernels will come to the brown tint of the eggs is attractive, alsurface and can be skimmed off. If though their size is sometimes small in thought best to take no chances, or if, comparison with the large white eggs of after feeding some of the grain in its the non-sitters. It is, however, probable present condition, you have reason to be- that most consumers are willing to conlieve that it is injuring the fowls, the cede something to appearance. The size vitality of the smut spores can be de- may be very considerably improved by stroyed by immersing the grain in water selection, just as the total production may that has been heated to 133 degs. F. be increased by the same method, or re-However, it is very probable that the re-course may be had to crossing for the moval of the most badly damaged kernels attainments of this object. In crosswill put it in condition to be fed in safety breeding to improve the size of the eggs and with profit. Running it through a it is customary to use a male of a non-W. R. GILBERT.

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The Lawrence Pub. Co., Detroit, Mich.

DETROIT, OCT. 1, 1910.

CURRENT COMMENT.

The State Fair. Fair for 1910 has passed papers Secretary Hannon was quoted as exposition of the kind ever held in Mich- supposed to be sold on the grounds, and igan, both in the number and quality of in another General Superintendent Aitken the exhibits shown. In the live stock de- is quoted by the reporter as saying that is gloted by the reporter as saying that bureau will conduct experiments in the newer be known. Foreign.

Some presented. The entries were over 30 a word of truth in the statement. He is the contribution of the finest herds and is in the United States and Canada, the lease there is and is in the United States and Canada, the lease the entire space under the lass and the contribution of the finest high space is the lease of the state of the state fair presentative character which it never before, and showed to the full what art of the breeder and the skill of feeder can do in approaching the early days of the fact that exhibitors were leaf to the fact that exhibitors were leaf to the form of the first of the state shill the control of the fact that exhibitors were leaf to the control of the fact that exhibitors were leaf to the control of the fact that exhibitors were leaf to the control of the fact that exhibitors were leaf to the control of the fact that exhibitors were leaf to the fact that exhibitors were leaf to the control of the fact that exhibitors were leaf to the fact that exhibitors were leaf to the form any person that intoxicating liquors and the skill of from any person that intoxicating between a closely than would otherwise be patrons of the fair to study them of closely than would otherwise be libe, an opportunity which was well of very day a large number of fair pat. In fact, there seemed to be a fair patrons to closely examine the approach of the fair to study them of closely than would on the part air patrons to closely examine the approach of the fair to study them are retendency than usual on the part air patrons to closely examine the large element of State air patrons to closely examine the large element of State and patron to closely examine the patrons who had protested against the would be no intoxicating liquors solid at the section of the fact than and to gather many of a tendency partment, which is the backbone of any he regretted very much that a report had agricultural fair, practically all of the been spread that liquor was being sold improved breeds of live stock were well at the State Fair and that there was not represented. The entries were over 30 a word of truth in the statement. He is per cent greater than last year, and the further quoted as saying that Joseph showing of some of the finest herds and O'Hearn leased the entire space under flocks in the United States and Canada, the bleachers and most of the space unas well as many of the best in Michigan, der the grandstand for the sale of soft gave this department of the State Fair drinks and a restaurant, the price being a representative character which it never \$2,000, against \$6,000 paid for the bar had before, and showed to the full what privilege last year. The article quoted the art of the breeder and the skill of also says that Mr. Aitken stated that he the feeder can do in approaching the sent several people to the place conducted perfection of animal excellence. A fea- by O'Hearn, but was unable to ascertain ture of this exhibit worthy of special from any person that intoxicating liquors mention is the fact that exhibitors were were being sold. required to remove the blankets from During the early days of the fair, when their cattle between the hours of 9:00 representatives of the Michigan Farmer a. m. and 5:00 p. m. of each day to enable noticed that a suspicious looking beverthe patrons of the fair to study them age was being freely dispensed from bot- to improve the interest in, as well as the more closely than would otherwise be the labeled "Near Beer," an inquiry as agricultural practices of the section. possible, an opportunity which was well to the nature of the beverage was at once improved by a large number of fair pat- instituted, not alone because of the fact the farmers of those sections of the coungreater tendency than usual on the part effect promised the large element of State such help from their city brothers. In of fair patrons to closely examine the Fair patrons who had protested against Michigan we have no serious abandoned exhibits in all departments and to gather the running of a saloon on the fair farm problem as yet, and our farmers are information regarding them by the ques- grounds in previous years that there more alive to the necessity of conserving tioning of attendants and the careful would be no intoxicating liquors sold at and improving soil fertility than they reading of such facts concerning them as this year's fair, but as well because we were afforded by placards accompanying had in good faith published a statement the exhibits. In the horse department, to that effect in our editorial columns, they are not yet making the most of their as well as in the other live stock classes, Our inquiries elicited the opinion from opportunities in this direction, or in the the entries were large and of high qualseveral persons that the bottles which study of means to that desirable end. ity. Altogether, this most important de- were labeled "Near Beer" contained beer. There is "plenty of room at the top" in were labeled "Near Beer" contained beer. There is "plenty of room at the top" in partment of the State Fair was of a character to please the most critical patron and a credit to Michigan. The fruit exhibit was well up to the high standard set at previous state fairs and the short of grains and vegetables was far better than has been possible at previous fairs, since the large building formerly used as an administration building was this year utilized for the display of agricultural products. The show of farm machinery was large and attractively placed, the completed section of the new machinery building admitting of the demonstration of much of the lighter farm machinery in actual operation. The good roads demonstrated in all of the demonstrated in all operation, where the process of building macadam roads was demonstrated in all of the demonstrated in all operation. The good roads demonstrated in all operations of state of the same specific gravity of the demonstration building admitting of the demonstration in macadam roads was demonstrated in all operation. The good roads demonstrated in all operations of state of the same specific gravity of the demonstration in part of the demonstration of much of the lighter farm machinery in accadam roads was demonstrated in all operation. The good roads demonstrated in all operations of the chemist reported it to be macadam roads was demonstrated in all operations of the specific gravity of the demonstration of the legiting for the definition of the chemist reported it to be macadam roads was demonstrated in all operation of the chemist reported it to be macadam roads was demonstrated in all operation of the legiting for the definition of the demonstration of much of the lighter farm machinery in accadam roads was demonstrated in all operation. The good roads demonstrated in all operation in the provious state fairs and the should not in a fair officials were evidence with the vidence in a privation of the fair officials were lauded not in a griculture as in other probu

its phases under the supervision of a and containing the usual percentage of Department of Agriculture expert was a alcohol found in that fluid. To be exact popular feature with fair patrons who are not familiar with such work. The new automobile building afforded ample space for the placing of an attractive exhibit in this line, while the second floor of the building was devoted to the display of the above figures which Mr. Aitken is building was devoted to the display of the above figures which Mr. Aitken is popular feature with fair patrons who are his report shows that the sample connumtes behind schedule, arrived. The miuntes behind schedule, arrived. The accident resulted.

Title to the old Andersonville prison in Georgia has been transferred to the government and the property will be preserved as a land mark of the civil war. The historic burrows made by the unfortunate prisoners are included in the property. ing a complete and well rounded show.

ly appreciated by the fair patrons, espec- tests were ostensibly recognized by the ially the aeroplanes, which made several officers of the society are concerned, they flights daily and which were seen for the would undoubtedly have been better satfirst time by the larger proportion of isfied with the old order of things when those who attended the fair. The excellent music rendered from the band being dispensed as a "soft drink" under stand proved a delightful diversion to those who had become tired from the patrons of the fair would naturally immore strenuous task of looking over the bibe more freely of an intoxicating bevexhibits, and an excellent racing program erage if sold as a soft drink than would was appreciated by those who are devotees of this sport. The midway presented about the usual array of "attractions," some of an instructive nature and others of questionable value, even as amusements. Perhaps the best purpose which this section of the fair served was the diversion of a portion of the crowd from the buildings which housed the exhibits, thus making more room for those interested in the fair from an educational standpoint.

The attendance was all that could be desired during the early part of the week, but was largely reduced on the last two days by the rain, which prevented the carrying out of the racing program as announced, which was a great disappointment to those who were looking forward to the automobile races on Saturday. But notwithstanding this handicap the fair was a success. It was a good fair, good in all its features except the one bad spot mentioned in our editorial comment of last week, and which we feel obligated to mention again.

Following the publica-The State Fair. tion of our editorial comment in the last issue on the "Saloon at the Saloon. State Fair," an indirect denial of the truth of our assertions has been made by prominent officers of the State Agri-The Michigan State two Detroit dailies. In one of these

into history as the best saying that no intoxicating liquors were

was of a But as fair officials were quoted in a

electrical goods with which farmers are reported as giving out as received for the becoming better acquainted each year. "bar" privilege last year and the "soft All of the other practical departments of drinks" stand this year, the usual excuse the fair were proportionately good, mak- that the society needed the money would not seem to be in order this year. So far The entertainment features were equal- as that portion of the public whose pro-

confiscatory and, therefore, unconstitutional. The railroads were ordered not be would undoubtedly have been better satisfied with the old order of things when beer was openly sold as such, instead of being dispensed as a "soft drink" under a disguising label, since unsophistical adding a three day session at the White House this week.

A review of the financial condition of the country by the treasury department in the bible more freely of an intoxicating bevierage if sold as a soft drink than would be the case if they knew just what they were dirikking, and some would be induced to quench their thirst with a soft drink who would not drink beer as a matter of principle.

The establishmater of the country when the accounting for the propers to be an abundance of the country when the accounting for the country when the account and the country when cultural Society through the columns of culture in the section of New York in

section known as hill farms for demon-

were a few years ago or than were the earlier farmers of the eastern states. But

National.

A systematic study of infantile paralysis is being made by the New York state board of health. It has been recently declared that the disease is communicable, but the manner in which it is transmitted has not yet been discovered. A collision between a special interurban car and a local filled with passengers, out of Fort Wayne, Indiana, resulted in the death of 39 persons. The responsibility for the accident has not been placed but it is believed that the crew of the special, which was running empty,

Lightening killed seven persons during a storm, 25 miles northeast of Colorado Springs, last Thursday.

Railroad legislation in Minnesota for the past several years received a hard blow by the decision of the United States court when, in a decision last week it was declared that the reductions were confiscatory and, therefore, unconstitutional. The railroads were ordered not to comply with the requirements of the law.

Binghamton Chamber of Commerce determined to maintain a farm bureau for the promotion of the cause of better agriculture in the section of New York in which that city is located.

This department will be recognized by the Department of Agriculture, and under the direction of the Bureau of Farm Management of that department this local bureau will conduct experiments in the section known as hill farms for demonstrated as valorem duty is 1.66 per cent below last year.

The report of the inspector investigating the loss of the Pere Marquette car ferry in Lake Michigan, gives it as his opinion that the accident occurred as the result of someone's carelessness. The sonly by some blunder that it could have sunk in a sea like that prevailing when the mishap took place. Whatever that blunder or carelessness was, will never be known.

Foreign.

CROP AND MARKET NOTES.

Osceola Co., Sept. 19.—Good growing weather the last four or five weeks; several heavy rains which have started up the old meadows and pastures. The best pasture now we have had for several years at this season, which will help out the winter's supply of feed. Threshing

Magazine Section

LITERATURE **POETRY** HISTORY and INFORMATION



The FARM BOY and GIRL SCIENTIFIC and MECHANICAL

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

Northwind's Masonry

By Chas. U. Becker.

winter—the line where the green and red, golden and brown of summer and fall end and icy whiteness Did you ever watch it advancand the sun retreats southward? If you have not, you have missed one of the most enchanting sights this world affords, a sensation which you would not forget

Of course, this has been denied you if you have lived all your life on the plains, in the river valleys or in the slightly hilly states of the middle west and east. It is only in mountainous countries, where the peaks pierce the clouds, that you will be able to see the majesty and splendor of winter.

as long as you live.

There is nothing spectacular or grand about the coming of winter upon the plains—it is too sudden. You do not see it approaching from afar, and you hurry along with your business almost, unmindful of what is near you. True, you have, in a way, noticed that the brown earth has grown browner, the air colder and rawer, the storm clouds heavier, and you have put on thicker and warmer clothing; but you never realize how the snow line has been stealing upon you until you awake some morning and find the world buried in whiteness. Even when the first storm of the season comes in the daytime, there is little chance to admire its splendors. Is not this the usual way? Cloudy all morning, with an ominous stillness in the air which causes you to glance out of the window often, as you carry in another armful of wood or another hod of coal. There, what was that white object which fell between the house and the barn? A feather! Hardly! Look, the air is full! It is snow! The swirling flakes increase rapidly, and while you gaze out of the window, powerless to interfere, Winter seizes the world and gently, noiselessly tucks familiar objects beneath his white drapery.

The snow line is the line of elevation below which snow generally melts, and above which it never melts. It gradually descends from the equator-where it is about 15,000 feet above the earth-toward the poles, reaching the sea level in the neighborhood of latitude 80 degrees. shape it is an enormous bow with the

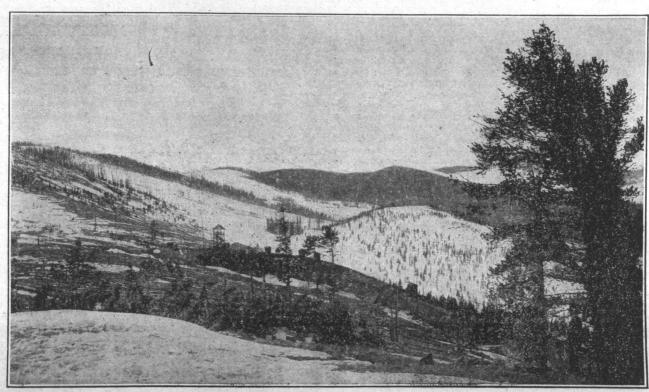
neath the sun. And as the sun moves south or north of the equator, slides back and forth, dragging over the and sifting earth from one end apparently scooping it up at the When the other. north end of the bow approaches us it first comes in contact with the high mountain peaks, and the which they slip over their black crests are tokens that before your sight has begun the yearly struggle between the two seasons, Autumn striving valiantly to cover the retreat of Summer, and Winter pressing forward with the relentlessness of a fury until he has captured the mountain and the valley, too.

directly

The first nipping frost in the mountains sends the tourists skurrying homeward, as though not for the purpose of learning new things

something terrible was after them. Oh, about nature, but for the purpose of find-well. There is nothing strange about that, ing a spot where weather conditions make ing, slowly but surely, like something After all, we are but fair-weather birds, life pleasant. Somehow the idea seems and we travel, when we do so leisurely, to be rooted in most minds that life in

The Glow of Summer-Black Canyon of The Gunnison, Colorado.



The Majesty of Winter.

the mountains in winter is surrounded by many perils. Perhaps the fact that the tall peaks are covered with snow most of the year may be responsible for the idea, for really it would appear that the mountains were the home of Winter, that in a place from which he stubbornly refused to be dislodged by August's scorching sun he must be very severe indeed along about January of February. Then, too, being stood up before you, you see so much more of the severity of winter there than in a flat country.

Yes, the snow sometimes reaches a depth of thirty to forty feet away up in the mountains, hiding all but the very tips of the tallest pine and fir trees, but all that merely adds to the beauty of the picture, gives a certain dignity to the rugged peaks which you will never see in summer. Besides, tourists, in summer, seldom ascend to the places where the snow lies deepest in winter, and while storms may rage up among the inaccessible mountains they seldom reach down into the valleys with any degree of violence. Hence mountain storms are insignificant in comparison with the lifedestroying blizzards on the treeless plains where there is nothing to shelter one from the searching winds. Although there may be no wind in the valley from which you are watching the snow flakes dropping straight down to the earth, you know that it is blowing up near the top of the peaks from the way the clouds dash against their sides, and from the way the snow, shaken down in pillars and sheets by the impact, streams slantingly over the edge of the boulders. But you are as near as any man need ever go, and it looks more terrifying than it really is.

I have seen the mountains in the glow of summer, when high lights and deep shadows prevail, and I have been among them many days and nights when the wind was roaring and howling far up the canyon and the snow was swirling around the tall peaks which had their heads hid among the clouds. And to me there is something powerfully fascinating about snow-covered mountains. Although I bave had enough experience to dispel such notions, still I have always looked upon a snow-covered range with a feeling that the evil spirit of winter was luring me to hidden snowdrifts and the path of the avalanche, like the spirit of the desert

calling men to perish in the sand. And I am not the only one experience this feeling, for I have met men who had gone into the desert for no other reason than that it had invited them, and I talked with many old mountaineers who delighted in crossing dangerous range when the snow was deepest.

The man who rushes from the noisy city woods in summer does not see or hear the wonderful things taking place around him. At first he is oppressed by the profound silence and probably does notice more than that the country is rugged or level, that the forest is green and that flowers are plentiful and brilliant. But if he remains there long enough, and commercialism has not shriveled and

what he thought was silence is not sil- line, weeping, it would seem, for every ence, that the woods echo with a myriad gully and gulch is pouring water into Ute of voices, which he will begin to hear as Creek, which has become a raging torhe would in coming out of a deep sleep, rent. You are overjoyed at the thrashing and that nature is filled with wonders

And neither will a hasty visit give you turning. an idea how strikingly Winter, day by day, writes the history of his struggle with Autumn in the mountains. True, you will return from a short trip with a of a change in the weather. Low-flying few grand impressions, but you must clouds pop over the range from the north tarry long to get at the soul of Winter, every little while and disappear behind has days. Suppose you stop in the little, home of a party of fishermen-which you it. Along in the night you awake with a the bank of Ute Creek, which tumbles tains and gives its waters to the Rio Blanca, the highest mountain in Colorado, looms up black and forbidding. To the north and east, and skirting the San Luis valley to the south as far as the eye can reach, is one unbroken range. After laying in a supply of provisions at the nearest outfitting store, you feel secure and sit down to enjoy the wonderful autumn weather.

Down in the canyon the sun shines warm and pleasant, the vegetation along the creek is brilliant green, but away off up the mountain you notice red and golden colors appearing in the quaking asp through many long nights and short days thickets. Frost, the breath of winter, has touched there, and as the days pass the red and gold keep sliding down Sierra match. Blanca until presently the nights at the forts to hold what he wrested from aucabin begin to get uncomfortably cool. After that you keep a close watch all day long, your eyes searching the crest of the mountain for the snow line which you is routed from his foothold upon the tall feel certain must soon make its appearance. Presently there is a decided change in the weather-clouds with rain in the valley-and the mountain hides its head. But when they drift away you fairly dance with joy, for it is there—the snow line-and the tips of the high peaks glisten in the sunlight.

It is a week or more before another storm further unwraps the white sheet. a

when you begin to realize that it is stealing towards you, a nameless fear creeps into your heart. You look down the canyon wistfully to where the frost has not touched the vegetation yet, and it is then many phases of winter, owing to the conthat you begin to understand why the birds migrate. A desire comes over you you will not see from the valley. You to flee, but you put it aside. You came rapidly approach and recede from condito meet the snow line, and meet it you tions which were a long time reaching Courage inspires you to action. In a spirit of defiance you seize an axe and chop and carry until there is a great heap hurling black smoke and sparks right of wood by the cabin door. Then when into snow-laden clouds, pulling you into you stop to rest and admire what you the midst of winter, and before you have accomplished, you feel that you are ready to bid defiance to winter.

Your attention will soon be attracted to the plentifulness of game, and that is indeed cause for wonder, for when you first took up your abode in the cabin you often tramped miles and miles without seeing anything to shoot. Now-why, you no more than step out of doors than you see deer, quail, grouse or turkeys fallen there. The passengers were moody dart away to cover. What does it mean? and silent during most of the trip up, Yes, after a while you begin to under- doubtless due to the damp, depressing stand. The game is moving in one direction, down the mountain, away from the it twisted and turned in search of the snow

white tongue lolling half way down the train had passed above the clouds. timber line. Shivering, your toes and get out and take a look about. fingers aching, you hurry back to the

warmth of the snow line has started down the mountain peaks, whose tops were visible at imposat an alarming rate of speed. Directly ing intervals, were covered with snow, that there has been a remarkable change fore up the canyon from the Rio Grande, and see.

dried up his soul, he will discover that the snow has crept back to the timber winter has been given, and you go about that hold his attention and demand study, whistling and singing. The game is re-

But the next day you do not feel so cheerful, for the game has paused in its march up the mountain. There are signs who has as many different moods as he the crags down the canyon. The sun went down behind a white mist and the deserted cabin-last summer it was the moon came up with a great circle around see in the clump of pine and fir trees on start and sit up in bed to listen. What noise was that? A wolf howling? There down from the Sangre de Christo moun- it is again. No, it was just a gust of wind among the pine trees, and you lie Grande. To the west of the cabin Sierra down again, but away off up the canyon you hear a steady roar like the approach of a train.

In the morning when you wake, the wind is still blowing, but it is muffled, seems far away, and you know before you peep out of the window that there is a snowdrift against the cabin door. green and brown have taken their leave in the darkness, and the wild animals and birds are gone. The world is buried. The snow line has slipped past you while you slept and winter holds you prisoner, biting, snapping and snarling at your door until the sun comes back, leading spring.

In spring, Winter finds more than his Though he makes desperate eftumn, he is dislodged from the valley and driven slowly up the mountain, shedding tears which flood the lowlands. Until he peaks, he often steals down again in the night and ruthlessly destroys the tender flowers and plants which spring has brought forth in the valley. Spring brings back the wild animals, and the birds come singing to your door, and after awhile, when all is green again, the tourists return to see the lovely mountains.

But stopping in a valley at the base of mountain and waiting for winter to Soon it reaches the timber line, and drive the snow line down to you is one thing, and crossing back and forth over the ranges while winter is approaching is entirely another, presenting many wonderful sights. From a train you catch stant shifting of the perspective, which you at the cabin. It is a strange sightthat of a locomotive rising up to and scarcely have had time to put on your overcoat; carrying you out again.

It was once my good fortune to be on a train which passed above the clouds during a storm. Rain had been falling in the valleys for a week before I started to cross the divide. There was the misty white line where the clouds touched the tall peaks which indicated that snow had weather. Our locomotive, grumbling as line of least resistance, had climbed a The srail's pace at which the snow line little over half way up the divide when comes down the mountain makes you im- we plunged into the clouds, a thick, heavy patient and you set out to meet it. Of fog. There was a stir in the car, for the course you make many disappointing discoveries. From the cabin it looked like gers. The fat drummer across the aisle a straight line, but pshaw! it is nothing awoke and the women and children beof the sort. In a gulch, where the sun's gan to chatter. Suddenly there came a rays touch but lightly, there is a broad, flood of brilliant white sunlight. The mountain, but out in the open you find a the apex of the divide it halted to give the great tooth of brown reaching up to the astonished passengers an opportunity to

Around us, below us, above us were pictures no artist could paint-they were There are so many things that should too grand, magnificent, sublime for any be attended to before winter sets in that canvas to hold. We gazed out over a you rush your work, and soon after you seemingly boundless sea of wavy, dazget busy you make the discovery that the zling white clouds. The tall mountain above the cabin is an untimbered strip of dropped from higher clouds which had ground a mile long. Already the snow passed away before we arrived, and they is peeping out of the woods at the upper sparkled in the bright sunlight and clear edge, and you go to bed feeling certain air. Over it all hung a dark blue sky. that the next storm will send it to your White, white everywhere. I had never door. But no, you are mistaken. When dreamed that there was so much whiteyou get up in the morning it is to discover ness, so much sunlight in the world. Bethat stupendous sight, talk was in the weather during the night. Autumn triffing, and we said nothing. In that has faced about and struck winter a stag- great light, my faults, my littleness, my gering blow. A seft breeze has slipped weakness were the only shadows I could



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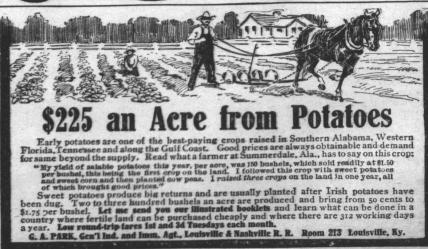
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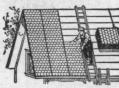
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And many a frolic share.
Each of us ready to run a race,
Swim in the brook or ride to mill,
Father says, we're the pride of the place
Shepherd Rover, and Jack and Jill.

Three little friends, good friends are we, Off in the morning, ere the sun is up, Out in the orchard, over the lea, Home to mother to sleep and sup, Growing stronger as days go by, Never to be cross or ill, Life's a pleasure you may be sure To Shepherd Rover, and Jack and Jill.

Three little friends, good friends are we, And never a hurt nor harm can fall On one but the others are bound to see And come post haste at the faintest call.



So here's a hope that the years be kind To each of us, bringing more good than ill. three little comrades at work or Shepherd Rover, and Jack and Jill.

AN INTERESTING FIND.

BY ISAAC MOTES.

Some years ago my father opened up a new farm in one of the southwestern states and planted a young orchard of apple trees. The year the orchard, as the country was thinly setbees in order to follow them to their homes

homes. under the trees. I pushed through the This bait was simply sugar and water bushes, heedless of everything but to mixed in a shallow vessel, placed in an find an inviting shade where I could cast

home in some forest tree. If the tree were near by they would fly lower, and there would be more bees going in that direction.

Father soon got several "lines" on bees going toward the forest. Taking the direction in which most of them were going, he moved the bait a short distance every day or two in that direction, waiting each time until the bees found the new location of the vessel. After getting out of the orchard into the forest it was very difficult to follow them, for the bees in leaving the vessel would rise beyond the tree tops before taking the direction to their homes, and it took a fine eyesight to follow them. We tried all the spring and summer to find bee trees in this way, and found only one, a monster post oak a half mile from the orchard.

It was my habit while in the woods to watch for bee trees, and I was often in the woods, either hunting or fishing, gathering berries, or going to and from some distant neighbor boy's home along a bridle path under the giant trees. I watched every knot hole so much to see if I could discover bees going to and from it that I always had a crick in my neck. Though I kept this up for years, more or less, I never found a bee tree in this way, though I was well versed in wood craft and forest lore for a boy of my age, and knew more about God's strange wild creatures than many a grown man.

The bees generally find some hole high up in a tree with a hollow above the hole. They build their comb into the hollow and crevices of the tree and store their honey there above where they enter, for the little fellows are very wise in their way and always guard against building in a tree where the water is likely to run in on their store of honey.

While I never found a bee tree when I was looking for it, I did find one once when I was not looking for it, and where I least expected to find one. The edge of the thick woods came up to our house on the north side, alongside the orchard, while on the south and west sides the fields extended back a half mile or more. It was one warm Sunday afternoon in early August that I took my book and went out into the woods about three hundred yards from the house alongside the orchard. I was thinking of nothing in the world except my book-certainly not trees began to bloom, honey bees filled the about bees. I left the main path and pushed off through the hickory, post oaktled, and this was the only orchard for and sumac bushes, which latter were miles around. My father and older decked in their gorgeous crimson leaves brothers believed that there were bee and still more crimson berries. I was trees near by in the surrounding forest, making for a place where I had never and they began putting out baits for the been before, where I thought the shade was dense and the grass thick and green

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quantities that they overloaded them- leaves to make the ground soft and clean selves and had to fly slowly, so it was and I threw myself down contentedly The instant I stopped I was astonished to This bait pan was soon covered with hear a very strange buzzing almost within bees. There was a continual stream of reach of me, it seemed. It was toward the little workers going to and from it the tree, and about two feet from the towards the forest in different directions. ground. Then I saw a thick brown mass When they got as much of the sweetened of bees clinging to and covering one whole water as they could carry they would sied of the tree near a hole, while a rise, circling up from the vessel almost stream of bees went into the hole and



A Grand Traverse County Lad Who Enjoys Playing "Pioneer."

open space in the orchard and left there myself down to the enjoyment of my until the bees were attracted to it in large book. numbers, where they would come to load up with it in preference to the sweets from the blossoms, because it was easier to get. They carried it home in such it. Here I found plenty of green grass and easier to follow them.

About one hundred yards from the road was a medium-sized post oak standing

somewhat alone, with no underbrush near out of sight, and then go straight to their another stream came out. A small cloud

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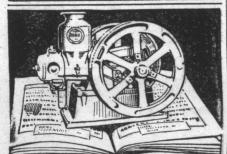
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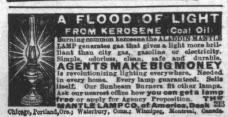
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of them was buzzing around the tree, and wings of those clinging to the tree were buzzing also, all making a noise the strangest I had ever heard. Some of the bees were not more than three feet from They were harmless, however, as honey bees, even wild ones, very rarely sting, and then only after great provocation. I was thunderstruck at what I saw, for whoever heard of a bee tree where the bees entered through a hole almost at the ground? Yet here they were, and I had, by the merest chance, stumbled upon what I had been looking for so long.

I snatched up my book, ran to the house and told my father and an older as surprised as myself, and could scarcely believe it until I took them to see it for themselves.

Did you ever help cut down a bee tree, gather the honey, and try to hive the bees and take them home to add to your domestic hives? It is easy to cut down the tree and get the honey, but not so easy to get the bees into a hive and make they stay there. After the tree is cut down and the bees despoiled of their honey they are more apt to fly away and find another tree, instead of allowing themselves to be housed in a hive which man has made, no matter how cozy it may seem to us, or how much nicer than living

One hazy afternoon in late August my two older brothers and myself took our axes and went to cut down this tree. We carried plenty of white rags to smoke the bees when they began to swarm, and to brush them off the honey when we got into it. We also took the precaution to tie strings around our wrists and ankles, so the bees could not crawl up our arms and legs. Handkerchiefs were tied around our necks and over our heads to keep the bees from getting tangled in our hair stinging us. Bees are generally harmless, still there is more danger of getting stung on the head, where it hurts worse than anywhere else. They say that if a boy's hair is black or red he is more apt to get stung on the head. Both my brothers had black hair, while I was a shockheaded boy with hair fiery enough to arouse the anger of the most peaceable bee that ever flew.

Only two could cut on the tree at a time, one on each side, and, as I was the youngest, my brothers did the cutting, while I busied myself keeping the rags burning near the tree to make as much smoke as possible. The bees buzzed around threateningly, but in the main stuck close to the body of the tree and in the hollow. Before you get the tree down and into the honey you must be careful not to get the bees too angry. You must go about the cutting in a leisurely, matter-of-fact way, as though you scarcely noticed them about you. must not fight or stir them up in any way. The cooler and more gentle you are the less likely you are to get stung. You must remember, too, that wild bees are not quite so docile as domestic ones. After the tree is down, the honey comb broken, and the bees have eaten some of the honey, which they will begin to do at once, there is very little danger of being stung. Still it was a delicate undertaking for us to cut this tree, for you see the bees were all around us before we reached the honey. Generally they are far up near the top, and you do not come in contact with them until the tree is felled and the honey broken into.

At last the tree was down. Fortunately, when it fell it split near the bottom and disclosed the rich, yellow honey comb. The comb broke near the center, parts of it adhering to each side of the tree as it split. We were now practically safe. The bees which had been lighting on our clothes and heads now settled on the honey and began eating it. Those inside the tree when it fell did the same. We allowed them to do this, knowing they would be easier to manage after-It would make them lazy and wards. sluggish, so we would have a better chance to get them into our hive.

In a few minutes we took our rags and gently brushed them off the honey comb, smoking them up into the small crevices of the hollow. With knives we then carefully cut thirty or thirty-five pounds of honey out of the hollow and put it into tin buckets. Not once were we stung, though bees were crawling over our faces and bare hands and over our heads, giving us a creepy feeling. Gloves protected our hands until we got the tree down, but then we took them off.

We were very anxious to hive them and take them home to gather honey for us every year. My father made a very nice hive, and this we took with us. After getting all the honey, we carefully



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and gently brushed the bees off the trunk and limbs onto a white tablecloth. Turning the hive bottom up, we gently brushed and poured the bees into it. The opening of the hive was covered with a cloth while we tried to brush up more bees. If we saw a large number clinging to a limb it was only necessary to put the tablecloth under them and then strike the limb a mild blow with the axe. The bees would fall on the cloth, when they could be gently poured into the hive with the others. They could be handled thus easily, for after they had eaten their fill of honey they had no inclination to fly, but, crawled around with buzzing simply We brushed them onto the cloth wings. from off the log and limbs of the tree, off our clothes and heads and the buckets of honey, put them into the hive and covered it up again with the cloth. Of course we could not get them all, as they were everywhere, but it seemed to me we must have put a half bushel of bees into that

Then we went home with our spoils. We set the hive carefully in a favorable place in the back yard near the edge of the orchard, and after they got settled we opened the holes so they could get air and come out.

The bees that were left in the woods gathered together in a little wad on the limb of a nearby tree and stayed there for several days, but they were gone before long, and we never knew what became of them.

LEAVING HOME.

BY L. L. DE BRA.

BY L. L. DE BRA.

Past verdant groves, o'er silvery streams,
Through fields of waving grain,
By wooded hills where Luna gleams.
Speeds on the midnight train.
And through the night's long, dreary
hours,
Whilst wooing Morpheus' spell,
Thus sighed car wheel on clicking steel
"Farewell, old home, farewell."

Without, the world has gone to rest 'Neath heaven's jeweled dome. Within, mine eyes no sleep caressed, As on we sped from home. And e'en when day dawned, chill and

gray, O'er forest, stream, and dell, Still sighed that wheel on clicking steel "Farewell, sweet friends, farewell."

And through the day, the changing scenes And faces, strange and new, Were ever dimmed by memories dear Of friendships warm and true. For rumbling train and whistle's shriek, And engine's clanging bell, Joined in the wail of sounding rail "Farewell, old home, farewell."

L'ENVOI.

Farewell, farewell. With aching heart I bid you all farewell.
Like ships at sea, we meet, and then—Farewell, farewell, farewell.

KINKS.

Kink 1 .- Letter Conundrums.

1. What are the two coldest letters?
2. The two most comfortable letters?
3. What two are always rotting?
4. Which two are a written composition?
5. Which two represent grudging?
6. Which two represent showy arrangement?
7. Which two are shabby?
8. Which three are a mourning poem?

Kink II .- Our Advertisements.

Kink II.—Our Advertisements.

Tell in which advertisements in this issue the following expressions occur, giving name of articles advertised as well as address of the advertisers:

1. "For every member of the family."

2. "Do this at our risk."

3. "Insist upon a standard make."

4. "The World's Best."

5. "You want to make more money."

6. "A few pounds once a month."

7. "Prices that talk big value."

8. "A guarantee that means something."

9. "They are all you claim for them."

10. "Simple, strong and practically indestructible."

Prizes for Straightening Kinks.—To the

Prizes for Straightening Kinks. Prizes for Straightening Kinks.—To the sender of each of the ten neatest correct answers to all of the above Kinks, we will give choice of a package of 50 postcards of general interest, a nice leather purse, or a copy of the Everyday Memorandum cook book. Where contestant or some member of his family is not a regular subscriber a year's subscription (75c) must accompany answers. Answers must not reach us later than Oct. 29, as correct solutions will be published in issue of Nov. 5. Address answers to the puzzle Department, Michigan Farmer.

Answers to Sept. 3 Kinks.

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Answers to Sept. 3 Kinks.

Kink I. Acrostic.—Muff, okra, tail, hatch, ermine and reader are the words, "mother" being formed by the primals, and "father" by the finals.

Kink II. Words Within Words.—1.

Babe in Babel. 2. Bum in albumen. 3.

Chap in chapeau. 4. Leg in delegate.

5. Agog in demagogue. 6. Mean in demeanor. 7. Rear in drearlly. 8. Cat in ducat. 9. Rag in ragout. 10. Tot in paletot.

Kink III. Imps.—1. Impetus. 2. Implement. 3. Impudent. 4. Imperil. 5.

Impalpable. 6. Impassable. 7. Palimpsest. 8. Pimple. 9. Simpleton. 10.

Wimple.

No Prizes Awarded.

None of the solutions to Kinks of Sept. 3 proving entirely correct, no prizes are awarded.







Our Concentration is Worse than Work— and without pausing for breath plunges something more than expenses. Of course, madly at the next, using as much ner- this means plenty of advertising in poul-Let Go a Bit and Take a Rest.

Wonder how many women there are in Michigan who are "just tired?". Tired, tired, tired. Tired of everything. Tired of work; tired of their depended upon getting a certain amount works wrongly, works without applying homes; tired of their families, though they of work done in a given length of time. judgment, thought and common sense to daren't say that last out loud. Tired of the clothes they wear, of the dishes they wash three times a day, of the meals they get, the sweepings they do, of the holes they mend, of the buttons they sew on; even of the neighbors who are kind and friendly; tired and sick of life itself. I am afraid there are many such women. Not so many, perhaps, as of the rested and restful kind, but at least a great many more wornout women than there

Well, there is but one cure for such a state of things, and that is rest. And now I can hear the chorus of protest from these tired women. "We have no time to rest. What would become of things if we stopped?"

It will be a great blow to your vanity, perhaps, but let me tell you things would go on without you, if you stopped, and I haven't a doubt the work would be done better than you are doing it. For no fagged woman ever works well.

It is a great mistake made by women, and especially by housekeepers, to get to thinking they are absolutely essential to the scheme of things. Bless your heart, no one is ever necessary. No one is so indispensable that the world and its work would not go on just as well without her as with her. If you don't believe it, try it and see

I used to think just the way you other housekeepers think, that I must keep on or everything would stop. I kept on until I had to stop with nervous prostration and things moved along just beautifully without me. Indeed, if my departure was noticed at all it was with a sigh of relief that such a fussy, nervous, cross individual had been banished and the rest of the family could be comfortable.

Since then I have noticed in other families where the mother has thought herself indispensable, that if she once took to her bed, or went on a visit or even died, those who were left got along without her. It seems pathetic, but many a family bereft of the mother, seems to brighten up visibly as soon as the mother is laid away, and the work gets done just the same without her.

So you who are tired out, ruminate on Then take a rest. If you really can not afford to go away, then rest at home. Rest between tasks, if you will not rest any other way. Don't keep on going so long as you see anything to do, but when you have washed the breakfast dishes, sit down five minutes before you sweep Take five-minute rests every hour. Of course, it makes the work seem to go slowly, but you really work faster for the little rests.

Take a lesson from a small boy who once went to school to me. He had mastered one lesson, and sat with the flush of victory on his face, taking breath be-fore starting another. In those days my hobby was to keep busy every minute, so when I saw him doing nothing I said, of course with a view to starting him im-

"John, what are you doing?"

"Restin'," said John, calmly and peacefully, while the other children tittered.

Then I thought the simple act of resting between tasks a thing to be shunned. Now I see that John was wiser than I was. One thing done, he stopped to gather his forces together before starting at another thing. Thus he accomplished his work without visible effort and with no waste of nerve force.

Boys and men work that way naturally. Girls and women must learn to work so, too. Every feminine creature has a way

and working feverishly from morning un-She finishes one bit of work with a bang, the business of her life,

madly at the next, using as much ner- this means plenty of advertising in poulvous energy in a day as she should ex- try journals, etc. There is the matter of

Country Women As Money Earners—No. 14. Possibilities in Thoroughbred Poultry.

By Ida Newland Cole.

HERE is one branch of the poultry trance door on the east side, a large doroing of thoroughbreds poultry, for the winter nights and bad, stormy days. purpose of selling eggs and fowls for able business than supplying the grocermen and chicken buyers, I see no reason
why the farmer's wife or daughter should
not avail herself of the opportunity to
engage in this line of work. Perhaps one
would need to give more attention to the
made self-feeder, which always contains
datalize of the business and would have ground feed on one side and overter shells.

not too common. Perhaps the experience over. After this they are allowed the run of a member of my own family who last of the farm with the other fowls until year started in this business, may give a better idea of the work than any theory which may be advanced.

He started in last fall with a pen consisting of one male and four females of 60 chicks for himself, beside the eggs that the Black Leghorn variety.

One hen had scored 92 at a nearby died from one cause and another. poultry show, and was a year old, while he had very good luck with the hatches, the rest were from spring hatches. Since two litters hatching 14 out of 15 eggs the close of the breeding season he sold each. He had no incubator or brooder, for what he paid for the first.

ered with roofing paper, while the inside male birds to breed from the coming year. is lined with tarred paper. It has an en-

business that has for some reason way is left on the south, covered with been left almost entirely to the poultry netting, with a muslin drop curlarge poultry farmers. That is, the keep- tain on the inside, which is let down only

There is also a small park on the south breeding. As this is a much more profit- side enclosed with pouttry netting, and a

details of the business, and would have ground feed on one side and oyster shells to be more careful, but the real work of on the other, is placed where they can caring for, and raising them, would be no help themselves at all times. They also greater than the old-time ways of poultry have a variety of grains and other feed keeping; and one does not have to de- twice a day, scattered through the litter pend upon the home markets, while the on the ground floor. This is the home of income would be much larger. the Black Leghorns through the winter It is best to start with a breed that is and spring until the breeding season is

winter again sets in. From the four hens since the middle of March he has sold 13 dozen eggs; one brood of day-old chicks, and raised about didn't hatch and the baby chicks that the old hen and one of the others, each but used Plymouth Rock mothers, as the Black Leghorns are non-sitters. He also The house he built himself with mate- had two sittings that were shipped him, rial procured from an old torn down shed, making about 75 chicks in the whole The roof slants to the south and is cov- flock. From the latter he will choose the

He now feels in a position to make

shipping eggs and young chicks that re-It is this over-concentration that tires quire a great deal of care. Each egg has women out, not the amount of work they to be wrapped separately in batting and of jumping into things head over heels do. Any healthy woman ought to do the packed carefully in excelsior or a similar work of the home without becoming ex- packing, and marked "to be handled with til night as though her soul's salvation hausted. If she can't, it is because she care." There is a great deal to be learned works wrongly, works without applying about the business, and much that can only be acquired by experience, but if one has a liking for the work it is a fascinating and healthful employment and one that is remunerative.

A late poultry journal gives an instance of one man having a pen of five fowls, of a not uncommon breed, but of pure stock, who sold a sitting of eggs for \$150 and was offered the same price for another but refused as he wanted them himself for hatching. This, of course, is an exceptional price, but the possibilities for the breeders of thoroughbred poultry are great and there seems not enough to sup-

TRAINING THE BOY FOR A HUSBAND.

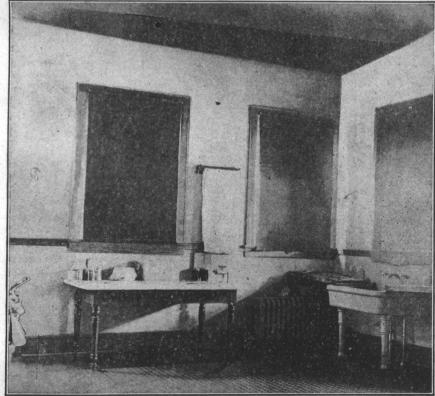
On every hand is advice galore in regard to training our girls for good wives and mothers. Why not train boys to be husbands, as it takes two to make the mar-It seems to me that any system of preparation which develops only one side must, in a large majority of cases, result in an unbalanced condition of

So many parents are not as wise as the motherbird. They think the boy is only a boy. They forget that he will one day be a man and on him will rest the respon-sibility of some woman's happiness. Boys naturally look to the father for example, they need his care and discipline always and his strong manly influence to aid them in their growth. But mother, what do the boys expect of her, or rather what do they not expect of her? There are mothers whose love for their sons is so discreet and comprehensive that it reaches out and takes in the happiness of his future bride.

Girls who have been so fortunate as to win the love and devotion of a son reared by such a mother have every reason for regarding the "fearful mother-in-law" with at least toleration.

Marriage is never a failure where consideration fills the minds of both parties. It is the golden band between them which brightens with increasing years and binds them together when absent from each So to train our boys to be good husbands we must teach them to be considerate of the wife's feelings. must work together and plan together. Home influence, how much it means to the boy himself, relating itself'closely to the quality of his manhood, to the atmosphere of a home he shall choose for himself, to the well-being or ill-being of his wife or to the nature and training of his children. If the boy is a success as a son, is he not apt to be as a husband? And if he is to face the world successfully he needs a little experience of the rough

When we stop to think of the footing upon which some boys stand in the household we can scarcely wonder at the increasing list of unhappy marriages, divorces, and dragged out wives. there are who daily help themselves to their sister's handkerchiefs personal belongings at their own sweet will, notwithstanding the sister's objections; who will not eat unless food is prepared to suit them, no matter how tired the mother is, what kind of husbands will they make? Other boys there are who have a way of gracefully and "cutely" slipping out of every little disagreeable task, leaving it for mother or sister to perform. So they are allowed to go through a careless, irresponsible boyhood uncontrolled. And the wife will be left to bear alone the burden of harassing, daily troubles, small in themselves, no



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Cuts fast and fine. Handles big chunks well as little pieces. True automatic feed, no choking, cuts bone across grain.



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doubt, but a mountain in the aggregate, and if she dare to murmur, "my lord" lifts his head and walks off with his hands in his pockets. I believe that, from babyhood there should be but one rule of action, one code of honor, one standard physically and morally for both sexes.

The boy in the family should have his own room, a place for the thousand and one traps so dear to a boy's heart and no infringement of his rights should be allowed. He should also be taught to recognize the same rights for others. Be taught that order is not only heaven's but home's first law and so in manhood's home he will not hang his coat on the piano or his hat on a chair, for his wife to take care of. The brother should be taught to use the same courtesy to his own sisters that he would toward other boys' sisters, and his "girl affairs" should be treated with respect, no slighting remarks be allowed.

Teach the boy to be sure of his ground for the man who imagines, thinks, guesses or presumes is no man to trust. His foundations are built on sand. Do not make life's pathway too easy for him to tread; teach him to rely upon himself; for the boy who will never violate his word and who will pledge his honor to his own hurt and change not, will have the confidence of his fellowmen. The boy who respects his mother has leadership in Now, these are the kind of boys who will make the model husbands.

SHORT CUTS FOR HOUSEKEEPERS.

When washing fine handkerchiefs or laces and wanting to scald them, put them in a pillowcase and put in boiler. Also a good way to scald lace curtains; no danger of tearing taking them out of the boiler.-Mrs. I. A. S.

A tablespoonful of kerosene put in a half pail of lukewarm water when washing windows will greatly improve the looks of them and save both time and labor.-M. B. D.

When patching underwear at the elbow or knee, where it is difficult to mend smoothly, try rolling up a magazine and slipping it in garment under place to be patched, and it can be mended quickly and smoothly without fear of catching other side also.—Mrs. J. C. T.

For a physic for small babies use fresh butter without salt. Sprinkle butter with sugar. One teaspoonful or more if needed for a dose.-E. M. C.

For poison ivy or any sore that is hard to heal, take the inside bark of elderberry bush and lard; let it simmer, cool, and apply it as any other salve.-Mrs.

Equal parts of ammonia and spirits of turpentine will take paint out of clothing, no matter how dry and hard it may Saturate the spot two or three times, then wash out in soap-suds.-J. J. K.

Remove the stains from t. ble linen while fresh by placing a dish of water under the spots and rubbing carefully with a small brush, then pat the wet spots dry as possible and slip a paper under to keep the pad dry. It will lighten the work on wash-day.—E. L.

Do not throw away the leaky hot water bag, but use hot salt in it instead

of water. It is just as good.—E. L. Tartar emetic, in a dish of sweetened water is the best thing I have found for getting rid of all kinds of ants. Keep two or three little dishes of it in the different cupboards and they will disappear at

Nothing is prettier as a finish for garments to be worn by very small children than a row of hemstitching. The daintiest

and finest of laces Hemstitching on the are permissable but Machine. these wear out very

soon and lace with even a tiny hole in it is anything but pretty. Sometimes the busy mother may want a quick method of hemstitching the little garments and will be glad to know that the work can be done

First draw the threads as for hemstitching with an ordinary needle. Then loosen the tension on the machine, just how much you can determine by experimenting on a scrap of cloth. Turn up your hem until the edge just touches the drawn space and then sew along its very edge, being careful that the seam is a straight one. When the hemstitching is done it is very likely there will be a few places where the hem was not well fastened and in order to give added strength tighten the stitch and hem one-eighth of an inch be a dainty finish that will wear as long as the garment.

Haste and Waste

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

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

Uneeda **Biscuit**

in separate five-cent packages. Soda crackers in large packages soon become broken, stale and unpalatable. On the other hand, Uneeda Biscuit in handy, moisture proof packages are always fresh, clean, crisp and whole-not one wasted.

(Never Sold in Bulk)

NATIONAL BISCUIT COMPANY



You don't want to buy a range every day, or every year, but when you do, the Great Majestic Range is worthy of your most careful consideration. It is a range with a reputation, built on honor of the best materials, and while the first cost may be more than some others, it outwears three ordinary ranges; this, and its fuel saving, baking and water heating qualities make it the cheapest in the end.

In the end.

The Majestic is the only range made entirely of malleable iron and charcoal iron. Charcoal iron won't rust like Steel-Malleable iron can't break. Majestic Ranges have absolutely air tight joints like an engine boiler, because they are puttogether with rivets, and they stay air tight, because neither heat or cold can open them.

The Majestic is lined with pure asbestos board, 1/4 inch thick, covered with an iron grate and it's put there to stay - you can see it. This assures a steady, even, perfect baking heat and saves fully one-half your fuel.

The Great and Grand MAJESTIC Malleable and Charcoal Iron Perfect Baker RANGE

Fuel

Saver

The reservoir is all copper and heats like a tea kettle through a copper pocket, stamped from one piece of copper, setting against left hand lining of fire box. It boils is galions of water in a very few minutes and by turning a lever the frame—and reservoir—move away from the fire. This feature is patented and is used only in the Majestic.

All doors drop down and form perfect and rigid shelves.

Malleable iron oven racks slide out automatically, holding anything they contain. The open end ash pan does away with the shoveling of ashes out of ash pit. The ventilated ash pit prevents the floor from catching on fire and the ash cap catches the ashes that would otherwise fall to the floor.

No springs anywhere to weaken, or get out of order. It is the best range at any price—a range with a reputation and it should be in your kitchen. It is for sale by the best dealers in nearly every county in forty states. If you don't know who sells them in your vicinity, write us and we will send you our book, Range Comparison. Everyone who is thinking of buying a new range should first read this booklet.

Majestic Manufacturing Co., Dept. 21 St. Louis, Mo. Majestic Manufacturing Co., Dept. 21 St. Louis, Mo.

Be In Your Should

above the hemstitching. The result will Please mention the Michigan Farmer when you are writing to advertisers and you will do us a favor. TWO PRECAUTIONS AGAINST DUST. 1

VERY good housewife is a foe to dust. Firstly, because long generations of dirt-chasing ancestors have given her the instinct; secondly, because dust is untidy and she would hate it anyway, and thirdly, because modern science has told her of the deadly microbes which lurk in every dust cloud.

Since I have become a housekeeper in practice as well as in theory, I have hated dust for a new reason. That is the very bad effect it has on my hands. Quite by accident I discovered one day that if I dusted a room without the precaution of first putting on a pair of old kid gloves, my fingers would be cracked and possibly bleeding by the time the room was dusted. Since then I have always kept a pair of gloves to wear while sweeping and dusting, but one day the good man, in a moment of aberration, gave a kindly and gracious permission to me to dust his desk and little book-shelf. He usually does this task himself, with a result which every woman can imagine. Without waiting for my gloves I rushed to the task, lest change his mind before I got started. When I had finished, my hands were rough and chapped, four fingers were cracked on the ends and tiny drops of blood oozed from my knuckles.

I could scarcely believe that dust would work such havoc, so tried the experiment once more. When my hands were healed, I dusted the parlor one day without the gloves, and again had two badly chapped hands to nurse. This satisfied me that dust worked the mischief, and since then I never sweep or dust without first protecting my hands. Many housekeepers who blame laundry soap for chapped hands can really blame their habit of sweeping and dusting with bare hands. If your hands are at all sensitive, never so much as pick up a dust cloth without first putting on gloves. Extreme cold will affect your hands the same way, and you should never go out in cold weather without first making sure that your hands will warm and comfortable until you return.

Besides protecting your hands when you sweep, do you take the wise precaution of protecting your lungs and respiratory organs by protecting your nostrils? If you do not a careful examination of your nostrils with only a hand mirror after you sweep should convince you of the necessity for this. The membrane on the inside of the nostrils will be black with dust, a sure indication of the condition of the air passages. To guard against this, get a small silk, or surgeon's sponge; disinfect it by washing it in good white soap-suds into which has been dropped a little carbolic acid; sew an elastic on it, just long enough to fit snugly around your head, and before you sweep moisten this sponge and slip it over your nostrils. It will catch the dust which otherwise would be drawn into the nose and lungs.

If you will not take this precaution, at least cleanse the nostrils and throat well after you have finished your task. I used to do this by drawing a little warm, salt water through the nostrils from my hand, after which I would gargle my throat with salt water. A throat specialist, however, put a ban on the habit of drawing salt water from the hand. This often leads to abscess in the inner ear, making mastoid operation necessary, he declared. A bit of matter is drawn from the nose into the inner ear in the act of snuffing. It can not get out and must stay there until it decomposes and starts an abscess. Since learning this I have used a small glass nasal douche. They may be bought for 25 cents and undoubtedly save hundreds of dollars for treatments for pulmonary trouble.

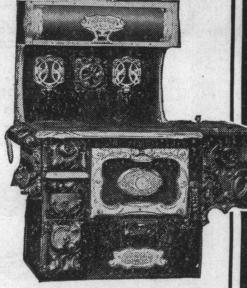
Instead of using salt water, a little peroxide of hydrogen might be used in

EXTERMINATING CARPET BUGS.

Dear Editor: Here is a recipe for the extermination of carpet bugs and its efficacy has been vouched for by those who have tried it. One oz. alum, 1 oz. chloride zinc; 3 oz. salt. Mix with one quart of water and let it stand over night in a covered vessel. In the morning pour it carefully into another vessel so that all sediment may be left behind, dilute this with two quarts of water and apply by sprinkling the edges of the carpet for a distance of a foot from the wall. This is all that is necessary, they will leave boxes, bedding and any other resort that has been sprinkled with the solution on the shortest possible notice and nothing will be injured in texture or color. L. S.



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You only need to send your name and address on the coupon below, or a postal, to get this-the greatest Stove and Range Catalogue ever published, prices, quality, and savings considered. It costs us over 10 cents to send it to you. But we are glad to do it—without obligation or cost to you. Over 100 pages, illustrated fully, and most interesting to you, as a stove or range guide to values, saving you from \$5 to \$40 on any stove or range you buy.

Akalamazo -"And Gas Stoves Too"

30 Days' Trial-360 Days' Approval Test Factory Prepays All Freight To You

Every reader of this paper, in justice to himself or herself should know the Kalamazoo plan and investigate Kalamazoo Stoves and Ranges.

Don't think of buying again until you do this.

do this.

Realize that we can save you from \$5 to \$40 for your own pocket, because when you buy a stove or a range from a local dealer this is what you pay for—7 costs, as compared with 3 costs when you buy of ns:

Cost of materials,
 Cost of manufacturing,

3. Salaries of traveling men,
4. Expenses of traveling salesmen,
5. Profits of manufacturer,
6. Profits of jobber and dealer,
7. Rents of jobbers, dealers, etc.
When you buy a stove or range from
the Kalamazoo Stove Company, you pay
only for: only for:

1. Cost of materials,
2. Cost of manufacturing,
3. And the one legitimate profit of the

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Pay Cash or Credit—As You Please

We are glad to extend liberal, easy monthly payments credit to you and all responsible persons.
Our free book explains this fully.
Every Kalamazoo sent ready to use—handsomely finished and blacked—safe delivery guaranteed—freight prepaid—on 80 days' free trial—on 360 days' approval test—with \$100,000 bank bond guarantee of satisfaction or money back.
Thousands of farmers and town and city people everywhere are our regular customers on this plan. Every Kalamazoo in each neighborhood sells from one to several more. You are absolutely protected and safe in ordering a famous Kalamazoo from us on either our direct cash or credit plan.

We have over 140,000 satisfied regular customers among farmers in almost every county in the United States and home folks in over 21,000 towns and cities. We should like to refer you to some of these folks, probably right near you, if you'll ask us to.

We know that we can satisfy you—and save you money—and send you better quality—and we want the opportunity.

Will you let us do that—with today for our Big Illustrated k

Everybody buys from us by sending for our Big Free Book first.

Do this and become a judge of values in stoves and ranges.

The secret of getting the most for your money—in all stoves and ranges, including gas stoves and ranges—is in buying direct from the factory that puts high standard into materials—cutting out all dealers' and middlemen's profits. That's what we do. Insist on the guarantee of the actual manufacturer.

What you want is protection that really protects. You want a binding, legal, responsible assurance that the stove or range you buy is just exactly as good as it is represented to be.

As actual, bona fide manufacturers of Kalamazoo stoves and ranges, with our own factory under our absolute control, we are in a position to give you a guarantee that means something. And we do it. We stand back of our goods. We stake our name, character and reputation upon the high quality and excellence of the entire Kalamazoo line. And we want to prove to you that you cannot buy a better stove or range anywhere, at any price.

Will you let us do that—without cost to you—by writing us today for our Big Illustrated Kalamazoo Catalogue No. 113.

KALAMAZOO STOVE COMPANY, Mfrs., Kalamazoo, Mich.

Kalamazoo Stove Company, Mfrs. Kalamazoo, Mich.

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est original design, greatest fuel saver. Over 16,000 satisfied owners today. See Free Cata-

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Cleans and Grades all Seeds. I'll Pay Freight no Matter Where You Live—Take a Year to Pay Me if You Keep It.
By that time this remarkable machine will pay for itself and keep on making big money for you every year. No money down—no note—no contract. Return at my expense if you wish. You'll see what wonderful work it does. Don't grow weeds or plant weak seeds and get only half a cropp of grain or grasses. Clean

Doubles Crop Values
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ee Book No. 167

Seattle, Wash.

Minn.

ESTERN GANADA'S 1910 CROPS

Wheat Yield in Many Districts Will be from 25 to 35 Bushels Per Acre

Land sales and homestead entries increasing. No cessation in numbers going from United States. Wonderful opportunities remain for those who intend making Canada their home. New districts being opened up for settlement. Many farmers will net, this year, \$10 to \$16 per acre from their wheat crop. All the advantages of old settled countries are there. Good schools, churches, splendid markets, excelent railway facilities. See the grain exhibits at the different State and some of the Country fairs. Letters similar to the following are received every day, testifying to satisfactory conditions; other districts are as favorably spoken of:

Takes His Brother-in-Law's Word for It Takes His Brother-in-Law's Word for It
Taylor's Falls, Minn., August 7, 1910.

I shall go to Camrose this fall with my cattle and
household goods. I got a poor crop here this year,
and my brother-in-law, Axel Nordstrom, in Camrose,
wants me to come there. He formerly lived in Wilton,
North Dakota. I am going to buy or take a homestead when I get there, but I do not want to travel
two times there, for I take my brother-in-law's word
shout the country, and want to get your low rate.

Yours truly, PETER A. NELSON.

Wants to Return to Canada

Vesta, Minn., July 24, 1910.

I went to Canada nine years ago and took up a quarter section of railroad land and a homestead, but, my boys have never takes. I had to come back to the states on account of my health. Please let me know at once if I can get the cheap rates to Ponoka, Alberta.

GEORGE PASKEWITZ.

They Sent for Their Son Maidstone, Sask, Canada, August 5, 1910.

Arouts came here from Cedar Falls, Iows, four go and were so well pleased with this country in to Court d'Alene for me. I have taken up stead near them, and am perfectly satisfied to LEONARD DOUGLAS.



(Continued from page 254).

Try My Chatham Cattle selling at 2½@3½c; hogs, dressed, 9c per lb; butter-fat, 29c; butter, 22c;

Cattle selling at 2½@3½c; hogs, dressed, 9c per lb; butter-fat, 29c; hogs, dressed, 19c per lanted. Those that were planted early are large, but few in the hill. Beans a good crop and some are harvesting. With the exception of peaches fruit is scarce.

Shiawassee Co., Sept. 19.—Weather for the past few weeks has been uniformly dry with hot days and cool nigats. On low land there has been some frost, but not sufficient to kill corn and late potatoes. Farmers are busy seeding wheat and securing the bean crop. A large portion of the bean crop is still lying on the ground. A few late pieces yet unpulled. Wheat that was sown early is coming up in fine condition. A large acreage of wheat will be sown this fall. Corn is being cut. Silos are being filled. A usual acreage of rye will be sown. Late potatoes are still growing well and need the remaining part of the month to come to full maturity. New seeding, is looking passably well but shows effect of the drought. Clover seed is filled well and most farmers are saving the second crop for the seed. Wheat the past season has been very smutty and farmers are awake to the vital importance of treating the seed before sowing. A few cars of lamba are being shipped in for feeding. No cattle. Hogs are not plentiful.

Lapeer Co., Sept. 19.—Threshing nearly done. Wheat and oats yielded well, rye poor. More wheat will be sown than usual. Corn and potatoes as last year. Early corn being cut. Late Dent needs a week of good weather yet. Several new silos have been erected and filling will begin this week. Beans a good crop, mostly harvested. Pastures excellent. Not many fat cattle or hogs for sale. Hogs selling for \$8.50@8.75 per 100 lbs. Very few turkeys in this part of the country.

Sanilac Co., Sept. 19.—September so far has bee

VETERINARY.

(Continued from page 256).

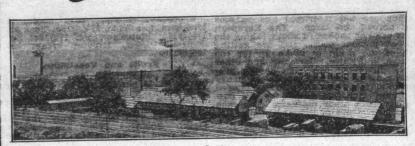
(Continued from page 256).

quite so lame. What shall I do for him?

G. M. R., Mich.—I am inclined to believe that he suffers from bone-spavin lameness and may not have ring-bone lameness. Apply one part red iodide of mercury and four parts lard every 10 days to hock and pastern.

Whistler.—My horse had distemper and after recovering from it he was inclined to whistle when moved fast. This horse shows no symptoms of heaves or broken wind, but seems most distressed in damp weather. J. E. W., Shelby, Mich.—Apply iodine ointment to throat three times a week. Perhaps he may have nasal polypus which causes him to whistle, or the vocal cords may be paralyzed, and if so a surgical operation would possible make him well.

week. Perhaps he may have nasal polyment against the whistle, or the vocal cords may be paralyzed, and if so surgical operation would possible make him well. It was a seven-year-old and the property they sent to court date to the make that it is surgical operation would possible make him well. It was a surgical operation would possible make him well. It was a surgical operation would possible make him well. It was a surgical operation would possible make him well. It was a surgical operation would possible make him well. It was a surgical operation would possible make him well. It was a surgical operation would possible make him well. It was a surgical operation would possible make him well. It was a surgical operation would possible make him well. It was a surgical operation would possible make him well. It was a surgical operation would possible make him well. It was a surgical operation would possible make him well. It was a surgical operation would possible make him well. It was the surgical possible which is worse to make you as the surgical possible which is worse some days than others. She seems to be in good health, does not discrete him well. It was a surgical operation would possible make the surgical possible which is worse some days than others. She seems to be in good health, does not discrete him well as worse some days than others. She seems to be in good health, does not discrete him well. It was the could be a surgical operation would possible make the surgical possible which is worse a surgical operation would possible make the surgical possible which is worse as the good health, does not discrete him well of the surgical possible which is worse as and has been to discrete him well as the surgical possible which is worse to meet a day. Infection, also there were that he can be a surgical possible him a plat if we well as well as the surgical possible him a plat if we well as well as



Buy It—and You'll Never **Need Roof Paint**

of using a lot of roofing, he is pretty sure to study the subject with great

That is why Amatite is so often used on the big ready roofing contracts.

A man who has only a few hundred feet of roof will often be careless in his choice of roofing, but when it comes to thousands of square feet, (as above) Amatite is sure to be used.

The following is a typical instance:

Barrett Manufacturing Company.

Dear Sirs:—We wish to inform you that the 'Amattie' Roofing which we have used on our office, store house, lumber shed and barn has given most satisfactory service.

The area that these roofs cover is about 15,000 square feet. The roofing is unusually attractive in appearance, and in our judg-

When a man is under the necessity using a lot of roofing, he is pretty appeals to study the subject with great to study the subject with great that is why Amatite is so often the market.

That is why Amatite is so often the market on the big ready roofing control on the big ready roofing control on the big ready roofing control of the market.

The market is the most durable and satisfactory made. The fact that it requires no painting appeals to us very strongly, and this feature makes it by far the cheapest ready roofing on the market.

CITY LUMBER & COAL COMPANY.

[Signed] F. B. Boardman, Treasurer.

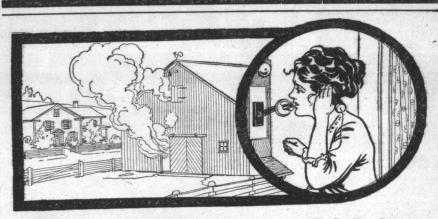
The economy of Amatite is not only in its durability and its price (lower than any other mineral surfaced ready roofing on the market), but also in the fact that it requires no nainting.

You may be sure it would cost something to paint their big roofs if they used a roofing that needed painting. All that is saved with Amatite.

A sample of Amatite will be sent you for inspection free if you will send name to the nearest Barrett office at once.

BARRETT MANUFACTURING COMPANY New York Chicago Boston Philadelphia St. Louis Cleveland Cincinnati Minneapolis Pittsburg New Orleans Kansas City





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When writing to Advetisers mention the Michigan Farmer.

DETROIT WHOLESALE MARKETS.

September 28, 1910.

Grains and Seeds.

Grains and Seeds.

Wheat.—There does not appear to be a stagnant place in the wheat market. The primary deliveries are not so large as they were a year ago but they are active and keep the trade tolerably well supported. The transfers of grain to centers of trade are not restricted and cargoes going abroad are large. The European buyers are not backward about taking the grain at present prices and are getting much of the grain to make up for the shortage in France, Germany and other places. Liverpool has been paying premiums most of the past week; but heavy shipments from here, and Russia "clipped the plume" and her quotations are now on a par with other markets. The cash deal is strong and millers are getting liberal orders for flour. Farmers show a tendency to limit their offerings as soon as the price at the local elevators gets far below the dollar mark. One year ago the price for No. 2 red wheat was \$1.15½ per bu. Quotations for the past week are:

No. 2 No. 1

Red. White. Dec. May.

No. 2	No. 1		
Red.	White	. Dec.	May.
Thursday1.001/4	.97 3/4	1.041/2	1.091/4
Friday1.001/4	.971/2	1.041/4	1.09
Saturday1.00	.971/4	1.03 3/4	1.081/2
Monday9934	.97	1.03 1/4	1.08
Tuesday9834	.96	1.02	1.07
Wednesday99	.961/4	1.02	1.07

	No. 2	No. 2
	Mixed.	Yellow.
Thursday	56	571/2
Friday		571/2
Saturday	551/2	571/2
Monday		57
Tuesday	55	561/2
Wednesday	55	561/2
	Carlotte Control	

Oats.—Values in the oat deal did not suffer the decline made in the other leading grains, but the deal is weaker. Offerings are ample in all the leading markets. A year ago the price for No. 3 oats was 42c per bu. Quotations for the week

Standard. No. o White. 37 36½ 36½ 26½
 Thursday
 37

 Friday
 37

 Saturday
 37

 Monday
 37

 Tuesday
 3634

 Wednesday
 36

 Beans—Quotations have
 50

Beans.—Quotations here for both cash and October beans are off since last week. New beans will be coming to the market from now on, and sags in quotations are to be expected. The local trade reports no sales. Nominal quotations are:

Cash. Oct.

					Casil.	O.G.L.
Thursday					\$2.22	\$2.15
Friday						2.15
Saturday						2.15
Monday .					2.22	2.15
Tuesday					2.22	2.15
Wednesday						2.15
Clausens	- d	Til	11	a +1	- dealin	

Cloverseed.—Following the decline at the close of last week there has been a stiffening of prices until most of the loss is recovered. There is much business in the trade and dealers are getting hold of considerable seed. In many sections the yield is proving a boon to farmers as the price makes it a profitable crop even where the huller gives no more than three bushels per acre. Quotations for the week are:

Prime Spot. Dec. Alsike

Prime S	Spot. Dec.	Alsike.
Thursday\$		\$9.25
Friday	9.25 9.30	9.25
Saturday		9.25
Monday	9.30 9.40	
Tuesday	9.40 9.50	
Wednesday	9.40 9.60	9.25
		7

Rye.—The rye market is firm and quiet. Quotation for No. 1 is 73c per bu., which is 1c above the price of a week ago.

Visible Supply of Grains.

		T	his week.	Last week.
Wheat			.32,243,000	29,207,000
			. 4,638,000	3,850,000
			.18,860,000	18,423,000
			. 319,000	290,000
Barley			. 1,836,000	1,379,000
	Flour.	Feed.	Provisions.	Etc.

 Clear
 \$4.60

 Straight
 4.80

 Patent Michigan
 5.10

Ordinary Patent ... 4.90

Patent Michigan 5.10
Ordinary Patent 4.90
Hay and Straw.—Market steady. Quotations on baled hay in car lots f. o. b.
Detroit are: No. 1 timothy, \$16@16.50;
No. 2 timothy, \$14@15; clover, mixed, \$14
@15; rye straw, \$7@7.50; wheat and oat
straw, \$6.50@7 per ton.
Feed.—All kinds of feed rule steady.
Carlot prices on track: Bran, \$27 per
ton; coarse middlings, \$24; fine middlings,
\$27; cracked corn, \$27; coarse corn meal,
\$27; cracked corn, \$27; coarse corn meal,
\$27; corn and oat chop, \$24 per ton.
Potatoes.—Market is a little easier with
supply fair and demand good. In car
lots Michigan potatoes are selling at 63@
65c per bu.
Provisions.—Mess pork, \$23.50; family
pork, \$23@24; medium clear, \$21@23;
smoked hams, 15@16c; dry salted briskets, 14½c; shoulders, 12½c; picnic hams,
13c; bacon, 19@21c; lard in therces, 13%c;
kettle rendered, 14%c per lb.

Dairy and Poultry Products.

Butter.—Market is steady with last eek. Supply is limited and demand ormal. Extra creamery, 29½c; firsts, ½c; dairy goods, 23c; packing stock, lockers. normal.

1874. 1874.

Fruits and Vegetables.

Apples.—Market steady. Duchess are quoted at \$3 per bbl., and common stock at \$2@3. Cabbage.—Steady. Selling at \$2 per

Cabbage.—Steady. Selling at \$2 per bbl. for new.
Peaches.—The leading fruit the past week. Steady. Prices are lower and range from 75c@2 for Michigan products.
Tomatoes.—Market steady. Generally quoted at 65@70c per bu.
Grapes.—Concords, 10-lb. baskets, 25@30c; Niagaras, 25c; Delawares, 35@40c.
Pears.—Unchanged. Bartletts, \$1.50@1.75 per bu.

OTHER MARKETS.

Grand Rapids.

Grand Rapids.

The peach season is closing early. Some of the largest growers report that they have only 75 to 100 bushels left. Prices range from \$1@2 per bu. Apples are worth 75c@1.50; grapes, \$1.25 per bu. or 18@20c per 8-lb. basket. Pears are selling at 75c@1.52. Tomatoes were cheaper Tuesday morning, selling at 60c. Owing to lateness of season it is thought that prices will not go lower than this. Potatoes are bringing 75c and are being retailed by grocers at \$1. The egg market is firm at 22½@23c. Dealers are paying the country merchants, 25c for dairy butter and 29c for creamery. Farmers are getting \$17@18 per ton for hay. Dressed hogs are worth 12½c; veal, 6@12c. Live poultry, delivered, is worth the following prices: Chickens, 11½c; old roosters, 7½c; turkeys, 14c; ducks, 11½c; geese, 8½c. Grain prices are as follows: Wheat, 93c; corn, 57c; oats, 37c. Beans are quoted at \$1.90@2.

cago, our market opened up 10@15c lower on all steers weighing 1,200 lps. and over, and about steady on all other grades.

We quote: Best 1,300 to 1,400-lb. steers \$7.25@7.60; good prime 1,200 to 1,300-lb. do., \$6.85@7.15; best 1,100 to 1,200-lb. shipping steers, \$6@6.50; medium butcher steers, \$1,000 to 1,100 lbs., \$5.20@5.75; light butcher steers, \$4.75@5; best fat cows \$4.75@5.25; fair to good cows, \$3.50 @4.40; common to medium do., \$3@3.50, trimmers, \$2.50@3; best fat heifers, \$5.50 @6; good fat heifers, \$4.25@4.75; fair to good do., \$4@4.35; stock_meifers, \$4.25@4.75; fair to good do., \$4@4.35; stock_meifers, \$4.25@6.50; medium to good do., \$4.75@5; stock_ers, all grades, \$4@4.25; best bulls, \$5@5.25; bologna bulls, \$3.75@4.50; light thin bulls, \$3.75@4; best milkers and springers \$70@80; good do., \$30@65; common to good do., \$35@40. A few fancy export bulls brought \$5.75.

Receipts of hogs here today, 105 double decks; market opened about steady on all grades this morning but pigs, which were 10@15c lower than Saturday's best time. Market closing 10@15c lower on yorkers and strong on choice fancy heavies.

We quote: Choice heavy hogs, \$9@9.50; roughs, \$8.35@8.40; stags, \$6.75@7.25. Few light hogs going over unsold. Prospects only fair.

The lamb market opened up active today, with prices about 50c lower than last week; most of the best lambs selling \$7.25@7.35; closing strong, all sold. Look

The lamb market opened up active today, with prices about 50c lower than
last week; most of the best lambs selling
\$7.25@7.35; closing strong, all sold. Look
for shade higher prices balance of week.
Handy sheep were strong today, and
prospects are for about steady prices the
balance of the week.

We quote: Spring lambs, \$7.30@7.35;
wethers, \$4.75@5; cull sheep, \$2.50@3.50;
bucks, \$2.50@3.50; yearlings, \$5.50@6;
heavy ewes, \$4.25@4.35; handy ewes, \$4.25
@4.60; northern Michigan lambs, \$7.25@
.7.35; veals, choice to extra, \$10.50@11;
fair to good do., \$7.50@10; heavy calves,
\$6@7.

Chicago.

grade or 18,920 per 8-th. basket. Pears are of 35. veals chole to extra 130.0911; active of 18,920 per 8-th. basket. Pears are of 35. veals chole to extra 130.0911; heavy calves, of the country merchants 25. for dairy per tentiled by grocers at 31. The egg married to the process of the country merchants 25. for dairy per tentiled by grocers at 31. The egg married to the process of the country merchants 25. for dairy per sensed hogs are worth 1314; veal. 186 green, 25. Carla prices are as follows; of 25. Law poultry, delivered, is worth the groces, 81,60 Carla prices are as follows; of the boom, fleeces being inactive. Prices weeks. There is foreign demand for wood on this side. The leading domestic quotation which is the boom, fleeces being inactive. Prices weeks. There is foreign demand for wood on this side. The leading domestic quotation which is the control of the boom, fleeces being inactive. Prices weeks. There is foreign demand for wood on this side. The leading domestic quotation which is the control of the boom, fleeces being inactive. Prices weeks. There is foreign demand for wood on this side. The leading domestic quotation which is the control of the prices of the boom, fleeces being inactive. Prices weeks. There is foreign demand for wood on this side. The leading domestic quotation which is the control of the prices of the control of the prices of the control of the prices of the



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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400%

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paid \$200 to \$1,000 an acre. Best growers. Acre. Best growers. Virginia tree last year yielded \$124 worth of apples, a Georgia tree \$57. Lands in best districts as low as \$10 an acre. Best peach and berry districts. Locations for peeans where they produce large and finest crops. Fruit and general farming go together in the Southeast. Low rate railroad fare. Write

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HERTZLER & ZOOK CO.

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WANTED—First-class single middle-aged man for dairy farm, near Detroit. Good wages and place for winter. Must have good references. H. M. F., Box 488, Detroit, Mich,

CALVES RAISE THEM WITHORT MILK,
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Iways mention the Michigan Farmer when writing to advertisers.

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

DETROIT LIVE STOCK MARKETS.

Thursday's Market. September 28, 1910.

Cattle.

Receipts, 777. Market dull at last week's prices on all grades.

We quote: Best steers and heifers, \$5.59@6; steers and heifers, \$1.000 to 1,200, \$5.50@5.50; steers and heifers, \$00 to 1,000, \$4.50@5.50; steers and heifers, \$00 to 1,000, \$4.50@5; steers and heifers that are fat, 500 to 700, \$3.75@4.25; choice fat cows, \$4.25@4.65; good fat cows, \$2.50@3.50; choice heavy bulls, \$4.25; fair to good bolognas, bulls, \$3.25@3.50; choice heavy bulls, \$4.25; fair to good bolognas, bulls, \$3.75@4.5; steers, \$00 to 1,000, \$3.75@4.25; choice stockers, 500 to 700, \$3.50@4; stock heifers, \$3.25@3.75; milkers, large, young, medium age, \$40@55; common milkers, \$25@35.

Spicer & R. sold Rattkowsky 3 bulls av 690 at \$4.10, 1 heifer weighing 610 at \$4.35. 1 cow weighing 820 at \$3.25; to Bresnahan 3 cows av 1,025 at \$3; to Goose 7 butchers av 464 at \$3.80; to Thompson Bros. 7 do av 514 at \$3.75, 1 bull weighing 1,190 at \$4.2 cows av 940 at \$3.80; to Heinrich 10 butchers av 694 at \$4.40; to Lachalt 10 do av 665 at \$4.29; to Goodwin 10 cows av 865 at \$4.2; to Goodwin 7 do av 740 at \$4.25; to Marx 11 do av 800 at \$5.50; to beardsley Bros. 8 stockers av 473 at \$4.2; to Applebaum 7 do av 740 at \$4.25; to Marx 11 do av 800 at \$4.50; to Lachalt 4 do av 897 at \$4.50; to Lachalt 9 av 730 at \$4.55; to Breitenbeck Bros. 31 do av 786 at \$4.55; to Dreitenbeck Bros. 31 do av 786 at \$4.55; to Breitenbeck Bros. 31 do av 786 at \$4.55; to Breitenbeck Bros. 31 do av 786 at \$4.50; to Breitenbeck Bros. 31 do av 786 at \$4.50; to Breitenbeck Bros. 31 do av 786 at \$4.50; to Breitenbeck Bros. 31 do av 500 at \$4.50; to Breitenbeck Bros. 10 av 800 at \$4.50; to Regan 1 heifers av 520 at \$4.50; do av 600 at \$4.75; to Rattkowsky 4 heifers av 310 at \$4.50; to Breitenbeck Bros. 1 bull weighing 570 at \$4.50; to Regan 2 heifers av 520 at \$4.50; do av 600 at \$4.50; to Sullivan P. Co. 2 cows av 705 at \$4.50; to Sullivan P. Co. 2 cows av 705 at \$4.50; a

Kalaher sold Regan 8 butchers av 594

Kalaner sold Mich. B. Co. 5 cows at \$4.25.
Lowenstein sold Mich. B. Co. 5 cows av 1,020 at \$3.75.

Veal Caives.

Receipts, 442. Market steady at last week's prices. Best, \$9.75@10; others, \$4@8.75; milch cows and springers

Sheep and Lambs. 4,522. Market 15@25c lower Receipts,

Receipts, 4,522. Market 15@25c lower than last week.

Best lambs, \$6.75@6.85; fair lambs, \$6.25@6.50; light to common lambs, \$5@6.25; fair to good sheep, \$3.50@4.25; culls and common, \$2.75@3.25.

Roe Com. Co. sold Nagle P. Co. 65 sheep av 125 at \$4, 18 do av 130 at \$4, 85 lambs av 83 at \$6.75, 96 do av 82 at \$6.75, 76 do av 75 at \$6.60, 80 do av 90 at \$6.65, 49 do av 70 at \$6.50; to Thompson Bros. 19 sheep av 120 at \$4; to Mich. B. Co. 15 lambs av 70 at \$6.75; to Nagle P. Co. 84 sheep av 110 at \$3.75, 112 lambs av 77 at \$6.75.

Johnson sold Sullivan P. Co. 71 lambs

Bros. 19 sheep av 120 at \$4; to Mich. B. Co. 15 lambs av 70 at \$6.75; to Nagle P. Co. 84 sheep av 110 at \$3.75, 112 lambs av 77 at \$6.75.

Johnson sold Sullivan P. Co. 71 lambs av 92 at \$6.60.

Bishop, B. & H. sold Hammond, S. & Co. 15 lambs av 65 at \$6.50, 50 do av 75 at \$6.90, 34 do av 58 at \$6.50, 31 do av 63 at \$6.50, 6 do av 78 at \$6.75, 8 sheep av 105 at \$3.75, 6 lambs av 65 at \$6.25, 5 sheep av 82 at \$3, 16 do av 120 at \$4; to Sullivan P. Co. 22 lambs av 68 at \$6.25, 12 do av 58 at \$6; to Mich. B. Co. 103 do av 80 at \$6.75, 53 sheep av 110 at \$4.25; to Gordon & B. 10 sheep av 110 at \$4.25; to Gordon & B. 10 sheep av 110 at \$4.25; to Gordon & B. 10 sheep av 110 at \$4.25; to Gordon & B. 10 sheep av 103 at \$2.75, 18 do av 125 at \$3.37; to Eschrich 29 lambs av 68 at \$6.50; to Fitzpatrick Bros. 7 do av 68 at \$6.51; to Fitzpatrick Bros. 7 do av 68 at \$6.51; to Fitzpatrick Bros. 7 do av 68 at \$6.50; to Fitzpatrick Bros. 7 do av 68 at \$6.50; to Fitzpatrick Bros. 7 do av 68 at \$6.50; to Fitzpatrick Bros. 7 do av 68 at \$6.50; to Fitzpatrick Bros. 7 do av 68 at \$6.50; to Hammond, S. & Co. 40 do av 73 at \$6.65; to Hammond, S. & Co. 40 do av 73 at \$6.65; to Hammond, S. & Co. 40 do av 73 at \$6.65; to Hammond, S. & Co. 40 do av 73 at \$6.65; to Hammond, S. & Co. 31 lambs av 73 at \$6.60.

Haley & M. sold Nagle P. Co. 235 lambs av 65 at \$6.25, 51 do av 63 at \$6.25, 6 sheep av 120 at \$4; to Hammond, S. & Co. 27 lambs av 65 at \$6.50; to Gordon & B. 34 do av 75 at \$6.65; to Gordon & B. 34 do av 75 at \$6.50; to Gordon & B. 34 do av 75 at \$6.50; to Gordon & B. 34 do av 75 at \$6.65; to Gordon & B. 34 do av 75 at \$6.65; to Gordon & B. 34 do av 75 at \$6.50; to Gordon & G. 34 sheep av 105 at \$3.40, 6 do av 95 at \$3, 27 do av 115 at \$4; to Newton B. Co. 27 lambs av 83 at \$6.75; to Sullivan P. Co. 10 do av 114 at \$6.40; to Newton B. Co. 90 lambs av 80 at \$6.75; to Sullivan P. Co. 10 do av 114 at \$6.40; to Newton B. Co. 27 do av 68 at \$6.55; to Barlage 55 lambs av 70 at \$6.65; to Breitenbeck Bros. 16 do av 80 at \$6.75; 5 sheep av 110

Roe Com. Co. sold same 350 av 185 at \$9.10.

Friday's Market.

September 23, 1910.

Cattle.

Receipts this week, 832; last week, 1,126.

Market steady at Thursday's prices.

We quote: Best steers and heifers, \$6; steers and heifers, 1,000 to 1,200, \$5@5.50; do., 800 to 1,000, \$4.50@5; grass steers and heifers that are fat, 800 to 1,000, \$4.50@5; do. 500 to 700, \$3.75@4.25; choice fat cows, \$4.25@4.75; good fat cows, \$3.50@4; common cows, \$2.75@3.25; canners, \$2@2.50; choice heavy bulls, \$4.25; fair to good bologna bulls, \$3.75@4; stock bulls, \$3.25@3.75; choice feeding steers, 800 to 1,000, \$4.50@4.75; fair feeding steers, 800 to 1,000, \$4.94.25; fair stockers, 500 to 700, \$3.50@4; stock heifers, \$3.25@3.75; milkers, large, young, medium age, \$40@63; common milkers, \$25@35.

Veal Calves.

Receipts this week, 487; last week, 515.

Market strong at Thursday's prices. Best \$9.75@10; others, \$4@8.50. Milch cows and springers steady.

Sheep and Lambs.

Receipts this week, 6,296; last week 4,505. Market 25c lower than on Thursday. Best lambs, \$6.75; fair to good lambs, \$6.6.50; light to common lambs, \$4.75@5.75; fair to good sheep, \$3.50@5; culls and common, \$2.75@3.25.

Hogs.

Receipts this week, 4,982; last week, 5.715. Market 10c higher than on Thursday. Range of prices: Light to good butchers, \$9.25@9.30; pigs, \$9.90.15; light yorkers, \$9.25@9.30; stags one-third off.

SALOVE

STROYS WORMS

SREEL CO CLEVELANDO

"I have never invested which I derived as much benefit as I did from you Sal-Vet Sal-Vet about the property of the property of

week's prices. Best, \$9.75@10; others, \$4@8.75; milch cows and springers steady.

Bishop, B. & H. sold Parker, W. & Co. 4 av 125 at \$9.50, 6 av 135 at \$9.50, 3 av 300 at \$6.50, 6 av 125 at \$9.50 at \$9.50; to Newton B. Co. 13 av 130 at \$9.75; to Goose 4 av 325 at \$10, 5 av 145 at \$9.75; to Goose 4 av 325 at \$10, 5 av 140 at \$10, 12 av

Quickest to Heat Easiest to Clean

because it cuts down fuel bills one-third and will give as good service after a lifetime of use as on the day you buy it.

Only a range built of malleable iron and char-coal iron plates like the Arcadian can give this service. So-called steel and cast iron ranges cannot be riveted. They can only be bolted and the seams stuffed with stove putty to make them air-tight. Stove putty "dope"

soon crumbles and lets false drafts through the seams, wasting fuelmaking it impossible to control the fire, do good baking, or keep a fire over night.

MALLEABLE NON-BREAKABLE

RANGE is made of tough malleable iron and charcoal iron plates and is riveted together, metal to metal, like a locomotive boiler, and is made lastingly air-tight without the use of stove putty. The Arcadian will never have false drafts. It's easy to control the fire—to get a hot fire quickly—keep it at the right heat, or let it cool quickly. No need to burn up kitchen ware by setting it directly over the fire, because the malleable iron top is such a good conductor of heat—no need to use stove polish—easy to keep clean, just rub with oil rag—no ashes sifting out of cracks—oven the rmometer and every modern improvement—the Arcadian saves money and saves work.

Free booklet—full of money-saving information about ranges, telling the inside facts about range making and showing up secrets—teaches d showing up secrets—tead to detect weak points ages. Free. Write to-day

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I'll get rid of the pests that are costing you more money than you realize. I'll put the digestive organs of your stock in such a healthy, thrifty condition, they will grow like magic—I'll keep them that way, because SAL-VET not only kills and expels worms but "conditions" farm animals as nothing ever discovered will.

way, because said animals as nothing ever discovered with the conditions farm animals as nothing ever discovered with SAL-VET is a medicated salt, containing seven medicinal elements that work wonders. It goes to the root of the evil—(stomach and intestinal worms)—routes them out—cleanses the system—aids the digestion—enables the animal to derive more nutrition from the feed—saves feed—puts every organ in the pink of "conform the feed—saves feed—puts every organ in the pink of "conform the feed—saves feed—puts every organ in the pink of "conform the feed—saves feed—puts every organ in the pink of "conform the feed—saves feed—puts every organ in the pink of "conform the feed—saves feed—puts every organ in the pink of "conform the pink

Merely send the coupon below. I'll send enough Sal-Vet to feed your stock 60 days. All I ask is an opportunity to prove it. It won't cost you a cent if I fail. You have nothing to risk. You want to stop your stock from dying off-you want to have finer animals—you want to make more money—get more work out your horses—then send in the coupon below. The publishers of this paper vouch for my responsibility. You risk nothing.

Sidney R. Fell, Pres.

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CONDUCTED BY COLON C. LILLIE.

FARM METHODS FOR THE DAIRY-MAN.

The greatest need of the average dairy farmer at present is the application of more intensive methods in the management of the farm and stock, methods which will give the greatest possible net returns for every acre of land contained in the farm. This requires first of all a system of management which will result in the enrichment of his land. Whoever sees poor farmers on rich land or rich farmers on poor land?

To enrich the land all of the crops should be fed upon the farm. Moreover, a large portion of the crops grown should be the kind that will enrich the soil even while they are growing. I am referring is to get the best milk yield and reap the to the leguminous crops such as clover, greatest profits from the herd. In the alfalfa, peas, soy beans, etc., crops which first place, a cheap ration must be prohave the power of using the free nitrogen of the air for their growth. The legumin- farm; secondly, it must be well adapted ous crops not only enrich the soil but furnish much of the necessary protein which As a rule, the greater portion of the is ordinarily supplied to cows in the feed can be raised at home which always form of expensive concentrated feeds purchased upon the market. Leguminous reason, corn silage has come to be recoghay, therefore, largely takes the place of nized by nearly all stockmen as the most

same feeding value as wheat bran. of corn put into the silo ordinarily yields or a period of some 240 days. as much feed as three or four acres of pasture. the corn land is partly offset by the extra average feed of 40 lbs. to each cow per labor required to produce the corn on the day would require 48 tons. The average other hand, more uniform feeding is possible with silage than pasture and it is states is close to eight tons. difficult to estimate the value of this rate, six acres of corn would furnish a greater uniformity of feeding. Less pas- sufficient amount. The United States ture is needed and more silage to supple- Department of Agriculture estimates the ment any lack of pasture.

richment of the land is the saving of the the cost of putting corn in the silo to manure. Enough bedding should be used average 75c per ton. Then we may arto absorb all of the liquid manure in the rive at the actual cost of the feed as stable, and whenever possible the manure follows: should be hauled direct from the stable to be stored under shelter.

dairy stock. One good cow such as is \$10.24; cost of silage for one cow for one within the possibility of the average dairy day, 4%c. man will yield twice as much milk and the average farm. Think of what such difference in the quality of stock must value in the corn plant which is pracmean to the success of the dairy! In the first place, only about one-half as much room is required; and, what is very imonly about half as much labor is required tons of oats at \$15 per ton, or \$165. in milking and feeding. And there is a

To get the highest returns from the dairy it is necessary to keep enough swine and poultry to consume any surplus byeproducts, such as skim-milk, buttermilk and whey. Feeding the skim-milk upon the farm has a double advantage; its feeding value is greater than the price paid for it by the casein companies and by feeding it there is also saved to the farm about 90 per cent of its fertilizing value which amounts to at least ten cents for one hundred pounds of skim-milk.

If farmers would try to feed swine more largely on pasture and forage crops and less on corn, there would be more swine average dairy cow and each contains raised and less skim-milk sold to casein practically the same amount of food mafirms. What better grazing crops do we terial. It is noted that there is an actual need than rape, peas, clover and alfalfa? saving of six cents per day. With a herd Alfalfa throughout the summer and when sup- 60 cents per day or for eight months, the plemented in the fall with field pea pas- average time a dairy cow would be fed ture will go a long way toward preparing would mean a saving of \$144 in cost of the pigs for market. It seems desirable, grain, or \$14.40 per cow. however, not to graze alfalfa until two or three years after it is sown. Pasture consisting of ordinary grass will furnish TO PREVENT A COW FROM SUCKING a large part of a pig's ration. To any of the grazing crops, skim-milk, buttermilk or whey and a little grain will furnish from sucking herself? She is a valuable proper supplementary feeds for swine.

In the way of intensive dairy farming

a living; these Danish farmers work a good living on twenty-acre farms. The dairy farmers of Holland and Germany likewise, possess but a comparatively few of land, but all of these farmers practice intensive dairying in the fullest sense of the word. This is what we need to do here we need fewer acres but better farming, fewer cows but more milk and butter-fat. Indeed, we have farmers here and there who have learned that quality counts for more than quantity in the dairy business, farmers who keep a cow to each acre of land and each cow returns an average one hundred dollars or more per head annually. This is the kind dairy farming that pays and pays abundantly.

Wisconsin JOHN MICHELS

THE ADVANTAGE OF SILAGE OVER OTHER FEEDS.

There are several points which every cow owner would do well to consider if he vided, one that can be raised upon the to milk production and fed liberally.

lessens the cost of production. For that grain in the cow's ration. Alfalfa hay, economical feed the farmer can raise. To for example, has pound for pound, the show this more clearly we will figure the actual cost of feeding an average herd of Intensive dairying also requires restriction in the acreage of pasture. One acre in the fall till grass comes in the spring ten cows from the time the pastures fail

The amount of silage necessary for 10 Of course, the extra yield from cows for the given period, allowing an yield of green corn per acre in northern average cost of raising an acre of corn One of the great essentials in the en- to be \$11.07, and reliable authorities figure

Cost of raising six acres of corn, \$66.42; the land. If this cannot be done it should cost of harvesting six acres of corn, \$36.00, which is a total of \$102.42. One of the most important factors in of silage for 10 cows for 240 days, \$102.42; intensive dairying is the quality of the cost of silage for one cow for 240 days,

According to the best authorities on butter-fat as two of the kind now kept on animal feeding the leaves and the stalks contain about 37 per cent of the food tically a total loss if the ears only are fed. 100 lbs. of silage contains 13 per cent of land is required to produce a given food material, at which rate 48 tons would amount of milk and butter-fat from good contain close to 11,480 lbs. If this amount cows than is required with poor or aver- of food material were furnished in the age cows; only one-half as much stable form of prairie hay it would require 11 tons at \$12 per ton, or \$132; 12 tons of portant to every dairyman these days, timothy hay at \$18 per ton, or \$216; 11

The economy of feeding ensilage is even compensation in keeping good cows which more striking when we compare the cost cannot be measured by dollars and cents; of a ration made up largely of grain and I refer to the real pleasure to be derived oats where a part of the oats, corn and from the handling of good stock.

| 'DI | an are repr | aceu by co | III bliase | • |
|-----|--------------|--------------|------------|----------|
| | | Grain Rati | ion. | |
| | | | Pounds | Cost |
| . 1 | Material Use | d. | Food. | per day. |
| 10 | lbs. prairie | hay | 4.7 | .060 |
| | lbs. oats | | | .03c |
| 6 | lbs, bran | | 3.3 | .06c |
| 4 | lbs. corn | | 3.2 | .05c |
| 1 | lb. linseed | meal | 6.9 | .02c |
| 23 | lbs. | Total. | 19.3 | .22c |
| | | Silage Rati | ion, | |
| 40 | lbs. silage | | 5.2 | .04c |
| 10 | lbs. prairie | hay | 4.7 | .06c |
| 4 | lbs. bran | | 2.2 | .04c |
| 1 | lb. linseed | meal | 6.9 | .02c |
| - | 11 | · FT - 4 - 1 | 70.0 | 10- |

The above rations are figured for the furnishes excellent pasture of 10 cows, this represents a saving of

PROF. L. G. MARTIN.

HERSELF.

New York. H. W. C.

we have much to learn from European Put a bull ring in her nose and attach farmers. The majority of prosperous several pieces of light chain four to six Put a bull ring in her nose and attach farmers of Denmark are not found upon inches long to the ring. These pieces of 150 or 200 acre farms such as many Am- chain will prevent the getting of the teat erican dairymen deem necessary in making into her mouth, or get a patent weaner,

A Case of "Wooden Leg"

Would you hire a man with a wooden leg? Hardly! A wooden leg is a poor substitute for real leg power. You would want a man with two good legs—full leg power—no substitutes. Disks and other contraptions in common cream separators are like wooden legs—they are mere substitutes for lack of skimming force resulting from a wrong principle of construction. A properly built separator produces plenty of skimming force to do the work without disks or other substitutes. Claims that contraptions are needed in modern machines are disproved by the fact that

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contain neither disks nor other com-plications, yet produce twice the skimming force, skim faster and twice as clean as common machines. Wash many times easier and wear several times longer in nsequence.
The World's est. World's biggest separator works. Branch factories in Can-ada and Germany. Sales exceed most, others com-bined. Probably replace more common separators than any one maker of such ma-chines sells.

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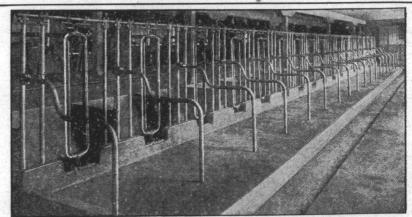
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Give it to them with Louden's Sanitary Stalls and Stanchions. You will be repaid over and over by the increase of both quantity and quality of milk and the satisfaction of having a barn equipped with the most economical, and up-to-date sanitary barn equipment made. Louden's Steel Stalls are made of twbular steel. Simple, strong and practically indestructible. Once installed they are there for a life-time. They afford ample ventilation, light and perfect sanitation. They have no flat surfaces to catch and hold dirt. Made for either cement or wooden floors.

Louden's Stanchions—are the perfect stanchions, affording the cow almost the same freedom when feeding or sleeping as if free, yet keeps them perfectly lined up at all times. Catch is easily opened with gloved hand, yet is completely "cow proof." Made entirely of steel. No wood to harbor dirt,—no sharp corners to injure cows. The Louden Electro Galvanizing Process with which we finish Louden Equipmentwhen desired, adds greatly to the appearance and durability of the equipment. It is a perfect coating of pure zinc, the best preventative of corrosion known, applied by special process, which is far superior to the ordinary hot process galvanizing. Investigation before equipping your barn may save you disappointment. It is cheaper to put "LOUDEN QUALITY" in your barn at first, than to experiment with inferior equipment. Write for catalog of modern labor and moneysaving barn equipment. LOUDEN MACHINERY CO. 603 Broadway Fairfield, Ia

"We will have full exhibit of our goods at the NATIONAL DAIRY SHOW, to be held in the Coliseum, Chicago, Ill., October 20th to 29th. Come and see us. Bring along a plan of your building and let us figure with you there, where you can make comparisons of all goods on exhibit."



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

A. C. ANDERSON'S LETTER.

East Lansing, Mich., March 24th, 1910.

Kent Manufacturing Co., Fort Atkinson, Wis.:

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

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

KENT MFG. CO., 131 Cane St., Ft. Atkinson, Wisconsin.

owner inserted a wire about a foot long to do it myself before we knew anything through the nose and bent it so it pointed about the silo. We used to raise acres out straight from each nostril. The ends of mangel wurzels and store them and of the wire were made sharp.

I notice in "Farmstead Notes" that Mr. Lillie states that he is giving his cows two feeds of clover hay each day; also a grain ration. I would like to know what the grain ration is and how much each cow gets at a feed. The windows in my cow barn are 28x36 in. What is the best way to arrange these windows so that they can be opened and closed easily for ventilation?

Lenawee Co.

Let J. D.

After the ensilage was all fed out on

After the ensilage was all fed out on the first day of August we began feeding clover hay twice a day, and for a grain ration dried beet pulp once a day and good gluten feed once a day. Just as soon as we threshed the peas and oats, we substituted them for the gluten feed and are now feeding beet pulp once a perature of cream when testing it for day and ground peas and oats once a day. Some years it would not be possible to feed peas and oats so early because they you put in a sufficient amount of acid to do not get seasoned well enough to be destroy the caseine in the cream. When ground, but this year being so exceedingly dry and the crop being so nicely matured without any moisture in curing, the peas and oats were dry enough to about the temperature. Now when the grind as soon as threshed. The cows that are giving a good flow of milk, those that came in late last spring and cows that are coming in fresh now, we are other substances in the cream, the fat feeding about three pounds of peas and comes to the top, being lighter. Now hot oats and about four pounds of beet pulp. The dry cows and strippers are not fed as We have a few two-year-old much. heifers that are coming in soon now and we are feeding them pretty liberally, about the old cow ration, just before they come in. The idea is to get them into splendid condition before they drop their

I think the nicest arrangement with windows where one wants to use them for ventilation is to have them put in on hinges at the bottom, so that you can pull out the top. This throws the current of cold pure air up toward the ceiling and ial butter display was lacking, and the prevents draft in the stables. It also show of the state dairy and food departmixes the cold pure air with the warm air ment was confined to a single illustration up next to the ceiling, which is much of the food value of dairy products as better than it is to have it come in a compared with other foods, such as eggs draft lower down and strike the cows and and meat. It conveyed to the eye the in some instances cause trouble from relative food values of cheese and butter

WINTER DAIRYING WITHOUT A SILO.

I was much interested in reading the article in the September 3 issue of the Michigan Farmer on "Summer Dairying," by W. F. Taylor. I have only 22 acres and can keep but two or three cows. Therefore can not fill a silo. I do not keep stock enough to use one if I could fill it, for the silage would spoil faster than I could feed it. How would Mr. Taylor or Mr. Lillie manage to keep up the flow of milk during the winter with only dry feed? Bran and middlings are \$28 per ton and I have raised only a very few roots. Would you advise me to sow an acre of roots next year and plan to begin winter dairying next year? Do you think there is anything left for the farmer who produces milk from dry feed at present prices of feed and butter? Allegan Co. D. C. D. W.

can keep up a flow of milk without corn is a comparatively recent invention, or animals that were capturing the admiramethod of storing corn and people have tion of the throngs passing through the been in the dairy business a long time barns and tents where it was necessary before the silo was ever heard of, and to put the overflow. with good results, too. The only quesanything else that we can produce on the arm It is the best of the left of the farm. It is the best way to harvest the bers of animals competing, the rivalry was strong for the prizes. This competiconsequently, other things being equal, we can produce milk and butter-fat cheaper with corn silage as a basic ra- The dairy cattle did their part in bringtion than we can without it. But we can ing over to the products of the farm atget good flows of milk without corn siltention that generally goes to the petty To be sure, a succulent food in the As a matration is an excellent thing. ter of fact, you can't get cattle of any kind to do their best for long periods of time on dry food. It is just the same with the lower animals as it is with us. We like a little fruit, to have it every day is best, but occasionally is better than none at all, to keep the digestive tract in good condition. In the same way we should furnish a succulent food in the ration for the dairy cow, or any other stock. It is the cheapest food you can get, the more of it you can feed the least atorium of Indianapolis, Indiana, contains expensive will be the dairy product produced. Now, if you can't have corn silage, then raise roots, mangle wurzels. They will take the place of corn silage. In England they do not grown corn, but free to those interested who write for it, use roots entirely for the succulent food. mentioning this paper.

one with long sharp prongs on, and put In many parts of Canada also, they grow I know a case where the roots also for the succulent food. I used feed to the cows every day, and it is entirely practical, even with a large herd GRAIN RATION WITH CLOVER HAY. to have roots to feed and certainly with a small herd it is the dairyman's salvation. I think with good cows to begin with, with good care, and good liberal economical feeding, that a man can make a good fair profit at the dairy business at present prices of feed and dairy pro-

TEMPERATURE OF CREAM FOR TESTING.

Does it make any difference in testing cream about the temperature of the water and the age of the acid? I have been told that it does and would like to hear from you in regard to it.

Lake Co. R. E. W.

No one pays any attention to the temperature of the temperature.

butter-fat. You weigh out 18 grams of cream and put it in a test bottle and then this is fairly shaken together the chemical action of the acid on the casein will warm it up so that it makes no difference bottle is put in the centrifugal machine and whirled rapidly, so that there is a separation of the butter-fat from the water is put into the bottle to float the butter-fat up into the neck of the bottle which is graduated so that it can be read. This water wants to be quite warm. If it isn't it won't keep the fat liquid. The fat must be kept liquid in order to be read properly. It is in this way only that temperature has anything to do with the testing of cream.

DAIRY INTERESTS AT STATE FAIR.

The exhibit in the dairy building was not as attractive to the general public as in former years. The usually large specas compared to the expensive cuts of meats, eggs, etc. It was a splendid object lesson of which we should have more at our fairs; and it should bring to dairying a broader appreciation of its The separator exhibit was products. good. Agents were receiving considerable attention from farmers in the market for such goods.

In the barns patrons were pleased. The stock was never better at a Michigan fair and the quantity was nearly double the number shown a year ago. Many of the leading dairy herds of the country were in the stables. The Brown Swiss, Ayreshires, and Guernsies were represented with large herds that gave the persons wishing to compare breeds a better chance than they have yet had at the state fair, to see representative animals The Jerseys and Holsteins were leaders There isn't any question but what you in point of numbers and showed their usual rivalry; and the advocates of either silage. Silage is not necessary. The silo breed did not need to feel ashamed of the There was nearly 50 per cent more dairy animals on the

As is true where there are large numtion gave the show a lively interest. It pleased the management and the patrons. side shows and other entertainments of questionable value. said of the show just passed, that of the large number who, came fewer appeared to be there for pleasure and more to secure educational advantages offered. The dairymen were among the busiest seeking information to carry home and make a part of their progressive livelihood.

FACTS ABOUT CANCER.

A booklet published by the Leach Saninteresting information about the cause of cancer. It tells what to Go for pain, bleeding, odor, etc., and advises how to care for the patient. The booklet is sent



An Interesting Incident at the Ohio State Fair

DE LAVAL'S Friends Loyal

Among the many visitors to our booth at the Ohio State Fair at Columbus this month was a lady who wanted our representative to show her a DE LAVAL. He took the separator apart for her and she seemed surprised at its simplicity and especially at the short time it took to take the machine apart and to put it together again.

"Why," said she, "I've got a ----- separator in on trial and their agent told me that the DE LAVAL was complicated, and that it was hard wash and that the discs would soon rust.

Just then a lady close by spoke up and said, "Why, it's no such thing! I've had a DE LAVAL for eight years and I've never had a bit of trouble with it. It's just as good now as it was when I bought it, and besides it will skim cold milk, and that's what the machine you've got won't do, or any other that I know of, for that matter."

By that time a dozen or more people had gathered round and no less than seven people spoke up and said that they owned DE LAVAL separators and that they were giving splendid satisfaction.

There was one man in the crowd whom the lady looking at the DE LAVAL knew, and she turned to him and asked, "You've got a machine like the one I'm trying out. Isn't it alright?" "Well," he admitted, "it's certainly better than skimming by hand, but it's mussy and gets milk on the floor; it's hard to turn, and if I were going to buy a new separator today it would be a DE LAVAL. I know more about cream separators now than I did two years ago. My brother has a DE LAVAL, and he has tried them all and says the DE LAVAL is the best."

Our salesman didn't have a chance to talk the merits of the DE LAVAL. Our good friends in the crowd persuaded the lady that she ought to give the DE LAVAL a trial before she made any choice, and before she left the hall she gave an order to have a DE LAVAL sent out to her house, and after a ten days' trial she bought the DE LAVAL.

There is a moral to this story: Don't buy a cream separator until you have given the DE LAVAL a trial. It costs you nothing to try it.

The more you come to know about cream separators the more apt you will be to buy a DE LAVAL.

THE DE LAVAL SEPARATOR CO.

165-167 BROADWAY NEW YORK

42 E. Madison Street Drumm & Sacramento STS. CHICAGO SAN FRANCISCO

173-177 WILLIAM STREET 14 & 16 PRINCESS STREET WINNIPEG

1016 WESTERN AVENUE SEATTLE



"Makes Cooking Easy."

Famous For

No fussy ornamentation or fancy nickel on the Plain Cabinet Glenwood. Just the nat-ural black iron finish. "The Mission Style" applied to a range.

The Broad, Square Oven

with perfectly straight sides, is very roomy. The Glemwood Oven Heat Indicator, Improved Baking Damper, Sectional Top, Drawout Grate, Ash-Pan and Large Copper Reservoir are each worthy of special mention. It can be furnished with fire box at either right or be furnished with fire left of oven as ordered.

Cabinet

Write for handsome booklet No. 5 of the Plain Cabinet Glenwood to Weir Stove Co., Taunton, Mass,

this year's exhibit at the state fair we former fairs. The tables were well filled. reducing the yields. All available space in the large horticultural building was well occupied with fruit that a good profit can be derived from and greenhouse products. The different sections of the state were as well represented as usual, some of the new fruit are planted on land already rich and libcounties making especially good showings. Apples were particularly prominent.

be conceded that this year's exhibit is far three applications throughout the growing superior to any fruit show that has been put on in Michigan. The later date enabled Michigan growers to get their fruit growth of the crop. better matured. It showed that quality for which the Michigan product is noted. At former fairs this has been impossible.

The exhibit of 1909 apples that were kept over in cold storage made an impression upon patrons, who believed that good looking fruit could only be grown in the west. The expressions of admiration for this part of the show could not but growers take in handling and grading be noticed. It was a great object lesson. It put the question, "Were these apples fruit is not wanted by the trade. Ingrown in Michigan?" into the minds of ferior apples always sell at a big discount.

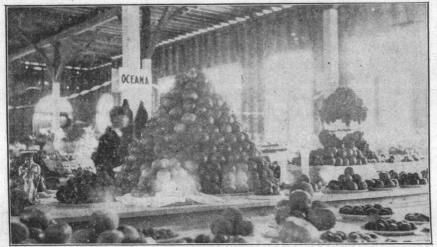
the same amount of soda was used in two equal dressings the gain was but 3,220 pounds. When 300 pounds of nitrate was used in two equal dressings the increased yield was 4,610 pounds. When the same THE FRUIT EXHIBIT AT DETROIT. amount was applied in three equal dressings the increased yield was but 3,540 In speaking of the quantity of fruit at pounds. The third application in this case caused a larger growth of vine and can but repeat what has been said at later maturing fruit, thus considerably

In tests with various crops it appears using liberal amounts of nitrate of soda for market-garden crops, even when they erally fertilized with complete fertilizer It was also shown that the nitrate should But for all that is said above it must not be applied all at once, but in two or season, depending on the nature of the crop, the character of the season, and the

> Washington, D. C. G. E. M.

HANDLING THE APPLE CROP.

It is astonishing to observe during a visit to the leading fruit markets almost any day during the late fall and early winter how very little care most apple



Attractive Fruit Displays at West Michigan Fair.

from the cities and from the general ed in attractive packages will bring more farming districts. A mistake in the print- money on any market than the whole ed catalogue regarding the premiums for crop mixed and placed on the market in 1909 apples was held to have kept some a uncouth condition. Apples must be exhibits away. Another mistake kept well packed and graded if they meet the away exhibits of cut flowers from ama- competition of other fruits of the season. as the list for professionals was Such a waste is inexcusable. duplicated in the amateur list. But in spite of these handicaps the exhibits can the standpoint of the men who have a be counted as Michigan's best effort in number of acres of orchard and to whom the way of putting up a fruit show.

are taking pains to get that which is more growing. Not only do they take more pains but they are ready, anxious and even enthusiastic to do it.

help men who desire to grow fruit to way, its purpose.

Taft and his corps of workers who have labored unceasingly to make the exhibit fruit, all of the fallen fruit should be the results; and to them all the state and to prevent the later falling fruit from owes much for their effort.

indicated. The increase in the yield in ing qualities of the fruit. this instance was 5,880 pounds. When

hundreds of visitors, particularly those The better grades of fruit carefully pack-

I shall discuss this problem largely from it is a living interest to secure the best We are beginning to open our eyes to market price for their fruit. The averthe possibilities in fruit culture in this age apple grower is not prepared to hold state. Men are investing brains and mon- his fruit for higher prices. He must sell ey, and the new light thus brought to his crop before cold weather comes. If bear upon the industry is attracting gen- he secures a good price for his fruit he eral attention. This interest is being re- must find the best buyers. Apple buyers flected in Michigan's fairs. The fruit is are very busy men during the harvesting better selected and better displayed. Men and shipping period, consequently they are taking pains to get that which is more cannot look after small lots. It is thererepresentative of the best of what she is fore necessary that apple growing be conducted on a large scale by individuals or by the co-operation of small growers. Frequently a number of orchardists find We believe what was shown at the state it advantageous to join together and hire fair will help men who want good fruit to their fruit graded and packed by experi-know where to get it. We believe it will enced men and hauled to the cars as fast as they are ready for shipment. By emknow where to locate. We believe that a ploying competent help to pick, grade and better horticulture for the state will fol- barrel the fruit each man is insured of a low the lessons taught, the admirations square deal and the whole output is more expressed, and the possibilities shown uniform. Few men have a better oppor-In other words, it is our opinion that this tunity to study human nature than apple exhibit has accomplished in a very large buyers and it is my honest belief that better and more satisfactory results will Behind the whole show we see the result when the fruit is graded by men splendid work of the master hand of Prof. who have no financial interest in the work.

what it was, and they, as well as the gathered from the ground before picking exhibitors, are to be complimented for begins to save trampling by the pickers becoming mixed with them. should not be picked until they have NITRATE OF SODA FOR TOMATOES, reached nearly their normal color for the variety, and until they can be removed In experiments conducted by the New from the trees without breaking the Jersey Station it was found that with to- stems and injuring the fruit spurs. Good matoes the heaviest yields were obtained color adds nearly one-half to the market when 200 pounds of nitrate of soda was value of apples. Fine flavor and good used per acre in three equal dressings- color are very closely related. Too early is, the first when the crop was picking and hurrying to market in a planted, the others when the character of green and immature condition reduces the season and the growth of the crops the prices and is detrimental to the keep-

W. MILTON KELLY. New York.

A Light Making Machine with a Strange Appetite



Once a Month

and it will supply you with enough home-made gas to run thirty-five lights. Just the thing for a farm or a country place of any sort.

Makes a cheap exceptionally brilliant light-more economical than kerosene and quite as convenient as electricity. Already there are 185,000 of these machines furnishing light for as many homes.

You can set one in one corner of your cellar or in an out-building. Then all you need to do is to feed it the curious crushed stone known as "Union Carbide," -a few pounds once a month.

The machine does the rest-automatically it brings the carbide a little at a time in contact with plain water.

The water liberates genuine acetylene gas stored in the carbide. This it does only when the lights are burning. Makes just enough acetylene to supply the lights in use and stops working when the lights are shut off.

You can have a cluster of lights in every room in the house—one in the cellar,—one in the attic, one on the front porch,-one at the back door,—one in the shed, one in the barn yard,-two in the horse barn (or garage, if you have one), and four in the cow barn.

With an installation of this

kind, you would have positively the most efficient and safest light equipment money can buy.

The "Union Carbide" which comes to you in sheet steel hundred pound drums won't burn and can't explode.

The fixtures are permanently attached to walls and ceilings—the light flame is so stiff, wind does not affect it.

Every burner can be equipped to light with the pull of a chainno matches required; and in addition to all this, the gas is not poisonous.—You could sleep all night in a room with an open burner and suffer no harm.

Considering these advantages, is it any wonder that the engineers of the National Board of Fire Insurance Underwriters have pronounced modern Acetylene Light Safer than any of the illuminants it is displacing?

The cost of a plant depends upon the number of rooms, barns and buildings you wish to light.

Write us how many and we will send you an estimate free, together with an intensely interesting booklet telling all about the light for home use and how it has been used successfully by Cornell University to grow plants—same as sunlight. Just address Union Carbide Sales Co., 157 Michigan avenue, Chicago, Ill., Dept. 0-34

Figure the Saving in Dollars

MADE BY USING AN

mperial Flexible Frame Harrow



The Bucher & Gibbs Plow Co.,

806 E. SEVENTH ST., CANTON, OHIO.



region and about 100 more Patrons from committee. The outlook is excellent for when this has been organized at Northport, as is planned, the county will have the four Granges necessary to the organization of a Pomona. This the officers of Grand Traverse Pomona have promised to help organize. There is better than an even chance that another Grange will be installed in Benzie Co. within a month, giving that county the benefit of two sets of delegates at the coming state meeting.

The efficient work of the local entertainment committee is well remembered by all who attended last year's meeting. Bro. Geo. L. Crisp, Grand Traverse county's school commissioner, is again at the head of this committee. A prominent feature of this year's meeting will be the farm products display, it being planned to have this exhibition take the place of a local fair, with all the counties of that section co-operating in putting up a showing of fruits, vegetables and grains which will prove a real eye-opener to all in attendance from other parts of the

some Granges.

Three incidental observations impressed themselves on my attention during a tour of some of the rallies this past summer and have somehow associated themselves in my mind. I set them down here in order that, if perchance they have any value in them, its leaven may work itself out in the minds of other persons or possibly Associational Motto.-

THINK ON THESE THINGS.

The first was a remark made by young girl who, like myself, was waiting in a hotel parlor in a town of considerable Associational Sentiment .size. Whether the town merited the censure or not, this girl's sole comment upon it was to the effect that "there's nothin"

The second circumstance was the fact of extensive rally preparations made by the young men of a certain Grange and the unavoidable impression made upon the mind of a stranger to the community that its young people comprised a factor that was reckoned with thereabouts. Several references, neard from one and another, to the activity of the young people, to their relation to the Grange and to the Grange's attitude toward them, led to the thoroughly enjoyed by all. Grange's attitude toward them, led to the Grange's attitude toward them, led to the Arrange for Club Fair.—Arrangements for the Club Fair on October 20 at the Hadley town hall, appointments of committees, etc., occupied the rest of the

Plans for the entertainment of State which we may or may not hang further in the Club's Grange at Traverse City in December are thought or discussion, according to our bell, Cor. Sec. being pushed toward perfection. On the willingness or unwillingness to be joggled strength of the last State Grange and the out of deeply-cut ruts: first, there is the coming session two subordinates in Lee- fact of activity as a natural craving and lanau Co. and two in Benzie Co., have asset of youth; second, there is the sugbeen organized, thus giving four addi- gestion of allowing a stated time for re-tional subordinates to the Grand Traverse creation by making a rural weekday halcreation by making a rural weekday half holiday, same as is common in cities; which to draw material for the reception third, there is the question, could a community afford to invest in a piece of still another Grange in Leelanau Co., and ground for purposes of recreation, athletic contests, and programs of instruction and diversion? JENNIE BUELL

COMING EVENTS.

National Grange, Forty-fourth annual session, at Atlantic City, N. J., Nov. 8-18.

Michigan State Grange, Thirty-eighth Annual Session, at Traverse City, Dec. 12-16 Annual 13-16.

Pomona Meetings,

Lenawee Co., with Ogden Grange, Thursday, Oct. 6. Election of State Grange delegates.
Wayne Co., with Harmony Grange, at Romulus, Friday, Oct. 14.
Lapeer Co., with South Grange, Thursday, Oct. 20. Miss Jennie Buell, state speaker.

FARMERS' CLUBS

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

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

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

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

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

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

CLUB DISCUSSIONS.

for the purpose of developing and training its younger members in leadership. In connection with such references as these, I heard quoted, as having been said by someone in the neighborhood, an opinion that is most extraordinary for its newness. It was in substance this: "If Saturday afternoons were declared a half holiday on all the farms about here, there would be little danger of Sunday baseball, etc."

The third observation was in connection with one of Michigan's finest hardwood groves—a splendid piece of beech and maple woods. Here, under its checkered

CRANGE

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

THE OCTOBER PROGRAMS.

State Lecturer's Suggestions for First Meeting.

School Day Program, prepared by the State Woman's Work Committee.

Roll-call, responded to by telling the worst prefedement you got into while attending school.

The commandation of ural pupils and none of the town pupils?

Question—Shall we put one or two traveling libraries into our school this year?

Reading, 'Old Glory at School Day Program of music and mere worst prefedement you got into while artending school.

Reports of committee appointed to visit schools in Grange jurisdiction.

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in the Club's history.—Mrs. C. J. Campbell, Cor. Sec.

Discuss Convict Labor on Highways.—
The Summit Farmers' Club held its September meeting at Shadelands, the beautiful home of Mr. and Mrs. Eugene Bags. After the meeting was opened for business, a vote of thanks was extended to Mr. and Mrs. Odell for the royal manner in which they entertained the Club at their annual picnic held at Hague's Park, August 17. Some very fine musical selections were given by Mrs. Beaman, Mrs. McDevitt, Miss Mabel Lyon and Miss Marjorie Gray. Mr. McDevitt read a paper on the building of good roads, and advocating the using of the prisoners for that purpose, as has been done in Kalamazoo. Mr. Bagg thought that it might work in Kalamazoo, but doubted that it could be done in Jackson. Mr. McDevitt thought that to work the Kalamazoo plan successfully, would have to work under a county reward law, but Mr. Purdy said that was not necessary. Mrs. Beaman, "When I was in the west I rode over miles of good roads made by chain gangs of prisoners, and it seems to me that our prisoners might be used the same way and help pay for their support." Mr. Ellison: "Last year some of the farmers had their corn husked by prisoners, but it was decided that it was unconstitutional to take them outside the walls." Mr. Purdy: "I would like to see a piece of road in Summit built under the state highway reward law. Think we have to help pay for roads for others."

Favors Government Aid in Road Building.—Mr. Angell: "The government helps

for road under that law, for we have to help pay for roads for others."

Favors Government Aid in Road Building,—Mr. Angell: "The government helps the railroads, and it should help the highways as they are vastly more important. Now is the time for us to get busy with our congressman, but we should have done it before the primaries." Mr. Mc-Devitt: "The common people want some attention paid to them. Could not help but notice, in a trip up the lakes, how the government is opening the channels, not for the people but for the corporations." Mr. Purdy: "The different farmers' organizations should pass resolutions on the good roads question and give to our congressmen." Mr. Berry: "Would suggest that a committee of four be appointed to draft resolutions on the good roads question and give to our congressmen." Mr. Berry: "Would suggest that a committee of four be appointed to draft resolutions on the good roads question to present to our representative and senators." Mr. Bagg: "Would say amen to all that has been said along this line, and would like the resolutions to start from this Club, and if our representatives and senators do not take notice of us, we will show them where we stand when they want our notice." Mr. Kennedy: "While donating work to a section of road that we have to travel a great deal, an auto came along and threw out the dirt faster than we could put it back. Believe if the money was distributed as it should be, men would not have to donate work. Auto taxes should be paid back to the county where they are owned and turned into the road repair fund." A committee was appointed to draft resolutions on good roads question. A rising vote of thinks was given to Mr. And mrs Reger and the where they are owned and turned into the road repair fund." A committee was appointed to draft resolutions on good roads question. A rising vote of thinks was given to Mr. and Mrs. Bagg. and the Club adjourned to hold the Club fair at Mr. and Mrs. Wm. Blake's, on the 20th of October.—Mrs. J. L. Eddy, Cor. Sec.

FARMS AND FARM LANDS FOR SALE OR EXCHANGE

The Best Located and Improved Farms in Mich. for the money. E. N. PASSAGE, Plymouth, Mich.

FOR SALE—120 acres, 7-room house, 2 large barns, silo, 2½ miles from market, lake frontage. \$5 per acre. John Narrin, owner, R. No. 2, Ortonville, Mich.

FARMS FOR SALE-in Livingston County, Mich. Prices right. FRY & MANNING, Brighton, Mich.

BEFORE BUYING A FARM write for list or see HARRY STARR, 407 East Grove Street, Greenville, Michigan.

102-ACRE FARM in Mich. Fruit Belt. Fertile soil for fruit, grain or stock. Perfect title. Death in family necessitates sale. W. Fisher, Watervielt, Mich.

OWN A HOME-The Saginav great inducements for the homeseeker. Write to-day. UNITED REALTY CO., Saginaw, Michigan,

For Sale-200 ACRES, 3½ miles from county thoroughly tiled, no better farming land in Michigan all kinds of buildings, in good repair. Price \$100 per acre. T. S. BARNES, ITHACA, MICH.

Cash For Your Farm or Business. I bring and seller together, no matter where located. If you want to buy or sell, address FRANK P. CLEVE-LAND, 948 Adams Express Building, Chicago. III.

MICHIGAN FARMS—Improved fruit, stock and grain farms, in Barry and Eaton counties, \$25 to \$75 per acre; splendid water, schools and roads. Low taxes. Write for List No. 4. BUCKLES & MATTHEWS, Hastings, Mich.

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

A Bargain 160 Acres, 8 miles from Jackson, market and schools; good house, fine rock well, new wind mill, new barn 32x00, granary, shop, etc., 2 miles wire fence. Plenty of wood. Good farm for all crops, especially potatoes. C. Horton, R. D. 5, Albion, Mich.

Cheyenne and Arapahoe **Reservation Opened by Congress**

The last chance to homestead Indian land in Oklahoma. Send I0 cents for map, description and terms of entry. KNORPP REAL ESTATE EXCHANGE, DEPT. K, EL RENO, OKLA.

MICHIGAN FARMS

FRUIT, STOCK and GRAIN FARMS in BARRY and EATON Counties—1 to 300 acres, from \$15 to \$100 per acre; good water, roads and schools. We have one of the leading farm real estate agencies in Southern Michigan. References, any bank or merchant in Hastings. Send for free list No. 3.

C. R. BISHOP & CO., Hastings, Michigan

Florida Lands for Sale

26,000 Acres Open Prairie in the Kissimmee Valley.

Solid tract. Price, six dollars per acre. This tract adjoins lands owned by the Southern Colonization Company of St. Paul, Minn, which are now being colonized by the Hunter Land Company and the Coldern Land Company. Address owners: Arthur Land Company, Address owners: Arthur Land Company, Address owners. A

Farm Ready For Business
75 Acres; \$3,500; Part Cash.
14 good cows, 3 heifers, 30 hens, valuable farming machinery and all small tools go with this fine New-York State farm, insuring big profits from the start; only 3 miles to village, creamery and railroad; cuts 30 tons of hay, spring watered pasture for 16 cows, fine crops; good orchard, never-failing spring water; 2-story 9-room house, big barn, other outbuildings; everything for \$3,500, part cash. Further details and traveling directions to see this and other rich farms, page 10. "Strout's Farm Catalog No. 30", copy free. Station 101, E. A. STROUT, Union Bank Building, Pittsburg, Pa.

Fertile Farms in Tennessee -\$5 to \$10 per acre

Cattle, Sheep, Swine, Poultry and Eggs. Write me as once Free Literature, which advises how to get one of t splendid farms for \$5 to \$10 per acre. Act quickly! H Smith, Traf. Mgr. N. C. & St. L. Ry. Dept.P. Nashville, Te

CHOICE VIRGINIA FARMS

Along the Chesapeake & Ohio Rail-

way as low as \$10 per acre.
Rich soil, mild winters: nearby Eastern markets,
For handsome illustrated booklet "Country Liye in
Virginia" (100 pages) and low twice-a-month excursion rates address G. B. WALL, Real Estate Agent,
C. & O. Railway, Box D, Richmond, Va.

FARMS THAT WILL INCREASE IN VALUE EACH YEAR

and yield good crops while doing so make an extra good investment. It is not necessary to leave civilization, go long distances from friends and home to find such land.

Northeastern Michigan Presents

that Opportunity To-day.

trait Upportunity 10-day.

From reading many advertisements you have the feeling that somewhere, West. South or North, a long ways away, you can find perfection. The advertisements forget to state draw backs, but you know Michigan,—with its easily obtained pure water, freedom of the expense of irrigation, good roads, possibility of diversified crops, and its many other advantages. Then, why be led so far away on uncertainties.

orner advantages. Then, why be led so far away on uncertainties.

The opportunity for a good investment is here, and it will pay you to investigate, for land is selling much below its real value and must increase.

Write the Northeastern Michigan Development

The Bureau has no lands to sell, but is simply trying to bring the opportunities of this region to the notice of those who wish to engage in farming, ranching or fruit growing.
Address all inquiries to

THE NORTHEASTERN MICHIGAN DEVELOPMENT BUREAU, Shearer Block, Bay City, Mich.

OR INFURMATION AS TO LANDS

The Nation's Garden Spot-

THAT GREAT FRUIT and TRUCK **GROWING SECTION** along the

Atlantic Coast Line RAILROAD

in Virginia, North and South Carolina,
Georgia, Alabama and Florida, write to
WILBUR McCOY.

& I. Agt. for Florida,
Alabama, Georgia,
Jacksonville, Fla.

E. N. CLARK,
A. & I. Agt. for Virginia
and the Carolinas,
Wilmington, N. C.

Great Price Wrecking Sale! READ THIS WONDERFUL FALL OFFER

50,000 Bargains

Our stock includes everything from a needle to a locomotive The largest stock of manufactured articles to be found under the sun. Our wonderful Catalog which we term the "Price Wrecker," tells all about our operations. It is free for the asking. See coupon below. 17 years of honest dealing. Besides our capital stock and surplus is over \$1,000,000. Satisfaction absolutely guaranteed.

What the Chicago House Wrecking Co. Means to You

We are your protection against the high prices usually asked by dealers. Our business is built on original lines. We are known everywhere as the "World's Bargain Center." We save you money. We buy our goods at Sheriffs' Sales, Receivers' Sales and Manufactures' Sales. Every single article on sale in this ad, is guaranteed brand new and first class. It is equal in quality to goods sold by dealers anywhere. You make no mistake on any selection from this page in sending your order at once. Read every word of this magnificent merchandise offer and you will easily understand why we call our literature, catalogs and booklets "Price Wreckers." This is our vocation — wrecking prices. We do this in the most thorough manner. We save you from 304 to 504 in the purchasing of your everyday wants. in the most thorough manner. We save you from 30% to 50% in the purchasing of your everyday wants.

Satisfaction Guaranteed or Money Refunded

If you buy any goods that do not give you satisfaction you can return same at our freight expense both ways, and you will receive your money back in full. Any banker anywhere will tell you who we are, or you can write to the Continental Commercial Bank, or Drover's National Bank of Chicago. They all know us.



PRINT LINGLEUMS. MP-59. A Splendid grade of Print Linoleum in exact imitation of quarter sawed oak. 6 ft. 396 wide. Per sq.yd... 396 MP-61. Pattorns of extra heavy grade Print Linoleums All colors; 2 to 2½ yds. wide. State 426 colors wanted. Price per sq. yd......426

HIGH QUALITY SMYRNA RUGS.

M. P. 45. Heavy, reversible Smyrna Rug. Handsome oriental pattern. Red or green ground; border colors tan, blue or red. Can be used either side up. Offered to you at exactly one-half its value. State colors wanted when ordering.

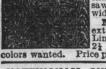
30x60 in. \$0.78. 36x72 in.\$1.50 6x9 ft... \$.28 9x12 ft... 6.95

A Great Bargain in Pashionble French Coney Fur Sets. Scarr
is throw style, is 54 ins. long and
lined with satin. Musfi is shield
design and warmly padded; lined
design and warmly padded; lined
duplicated under \$5.00. Colors,
black or brown.
27-A-1000. (Postage 22c) \$1.85

MAGNIFICENT SUIT LESS THAN COST we captured an Entire Stock at a ridiculously low price. You get the benefit. Handsome black cheviot suit, newest model, tailored by experts. Coat round sack style; vest popular single breasted. Notice—We send with this suit an extra pair of pants. Cut latest mode. Color, gray; guaranteed.

25-A-52. Suit with extra

4.95



NOTTINGHAM CURTAINS. M. P. 531. These magnifi-cent Nottingham Curtains come white only; 30 in. wide 92 in. long. They are the best value in low-price curtain ever sold. Made of extra quality of net in the newest and most popular designs.

ELEGANT OAK DRESSER. 1-Z-852. An Astonishing Oak
Dresser Value. Colonial style, 4
drawers, brass pulls, safe locks,
French bevel plate mirror 24 ins.
high; rounded frame, neatly
carved top, rounded scroll'standards, shapely dresser top 40x19
ins. Good casters, splendid golden finish on solid oak.
Worth dbl. Price only \$6.00

LADIES' TAILORED SUIT.

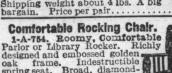
\$10.00 OVERCOAT-ONLY \$5.25. This well tailored, perfect-fitting single-breasted Frieze overcoat. Thickly padded and quilted lining. This coat is roomy, durable and stylish. Positively guaranteed. Sizes; 34 to 44 in. chest measure; Length, regulation, 46 in. Average weight 6½ lbs.



24-B. This is our Wool
Spun Blanket. Wovenfrom
yarn especially prepared.
Ends have deep fancy borders and are finished with silk
tape. Soft, warm, comfy. Color, gray. Do not show soil
guickly. Positively guaranteed Size 62x78 ins.
Bhipping weight about 4 lbs. A big \$1.98
bargain. Price per pair.

GEM STEEL RANGE. \$12.50 Price without reser-\$12.50

25-A-208. Color Black......\$5.25 / 25-A-209. Color Dark Grey.....5.25



Comfortable Rocking Chair.

1-A-754. Roomy, Comfortable
Parlor or Library Rocker. Richly
designed and embossed golden
oak frame. Indestructible
spring seat. Broad, diamondtufted back, softly upholstered;
broad arms; large, handsome,
durable. Covering is black
drill in imitation leather.
Rétail value \$7.00. Our price. . . \$3.91

Open Face, Dust Proof Watch.
A price wrecking offer on this watch. Century movement guaranteed for three years. Solid Nickel case, screw back and front; richly engraved. Stem wind; hardend and tempered hair spring. Latest model. Will last a life. \$1.95. Postage on Watch &c. By registered mail 16c. 30 days allowed.

LADIES' ALL WOOL SKIRT. LADIES' ALL WOOL SKIRT.

All Wool Panama Skirt. Made
the very latest "Tunic effect." Beautifully trimmed with silk soutache
braid and satin covered buttons.
Nobby and dressy. Made to sell at
\$7.50. Your money back if you
don't like it. Colors black or blue.
Sizes 22 to 30 in waist, 37 to 44 front.
27-A-110. Price
(Postage 16c)......\$2.65\$2.65

MEN'S PATENT BLUCHER SHOES While they last 5,000 pairs of Men's Patent Colt Blucher \$3.50 Shoes, at a saving to you of \$1.55. We took the entire output of the factory. This is perfect fitting shoe. Sizes 6 to 11. Widths C, D, E and EE.
Price per pair... \$1.95
Price per dozen pair \$21.00



HIGH-GRADE MILLWORK. HIGH-GRADE MILLWORK.

Lot No. 5588. Size 2 ft. wide,
6 ft. high; 1½ in. thick; 4 \$1.14

25 carloads of doors, all kinds and
grades in different wood at carload
tot prices. Millwork of all kinds and
from 2c Corner Block to a Colonial
Front Entrance Frame at ... \$3.76
Every article guaranteed. Send for
our general catalog.

CEDAR SHINGLES.

Lot No. 223. Common Star A.
Star 6 to 2, 16 ins. Red Cedar Shingles, 6 in, clear butt.

These shingles are an excellent
covering sheds, barns and other buildings of
like character. We sell many better grades.
White Cedar, also Fancy and Square Butt
Dimensions Shingles at \$5.00 and up per 1,000.

CEDAR SHINGLES.

MEN'S RUBBER BOOTS. Price per dozen.... \$40.00



FIRST CLASS PUMP. MODERN HEATING PLANTS. Everything needed in Plumbing Material. Our prices mean a saving to you of 30 to 60 per cent. Here is an illustration of a bathroom outfit we are selling at about \$60.00 for this same outfit. Our Catalog about \$60.00 for this same outfit. Our Catalog describes them in detail. Write us today.

**Modefin Alealing Plants.*

All kinds of heating apparatus. We can furnish you with a modern. Our with a modern up-to-date steam or hot water system of the concern. Complete plans and instructions go with every plant. We loan you will pay almost double elsewhere. Our stock of pumps is most complete. Write for our Heating averyou money on every purchase. It will pay you to get our figures. High plant backed by our Guarantee Bond. We quality and low prices guaranteed. \$3.60 BUYS 32 BARREL TANK.

STEEL ROOFING. RAWHIDE READY ROOFING. Fire, Hail and Weather-Proof.
Not affected by heat or cold. Made from pure asphalt. Recomended by fire underwriters. 108 ft. to a roll with nails and cement. Requires no coating after laying. Price per roll.

100,000 Squares of new Steel Roofing, which we are now selling at the following price, freight \$1.60 from being weather beaten it is as good as new.

100,000 Squares of new Steel Roofing at Salvage Sale. Aside from being weather beaten it is as good as new.

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100,000 Squares of new Salvage Salvage Sale. Aside from being weather beaten it is as good as new.

100,000 Squares of new Salvage Salvage

PERFECT ELECTRIC WELD FENCING.

PORTABLE PLATFORM SCALE. 57.45 For this Guaranteed 600.
Platform Scale, which will weigh accurately. We have a full line of Portable Platform Scales ranging from 600 lbs to 2,000 lbs. Also wagon and stock scales, both pit and pitless, and platform scales for mercantile and home use. We sell only the guaranteed kind.



Superior Gasoline Pumping Engine.

BUGGY AND HARNESS
This Fine Leather Quarter Top
Buggy, black with Brewster
green gear, I tires, narrow or wide
track... \$34.95
Fine Single Strap Harness.
\$10.98 at this price
light new harness. Send
for booklet.

SPECIAL SINGLE BARREL SHOT GUN. This Gun Strong and Reliable. Taper choke bored automatic ejector; 12 or 16 gauge; reinforced breech, case hardened frame; good quality fore end and full pistol grip stock; rubber but plate. Weight about 64 lbs.

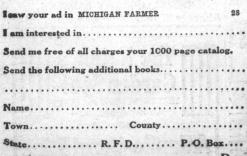
16-B-510. 12 gauge, 30 or 32 in. single barrel, with ejector, \$3.70. 16 gauge single barrel, with ejector, 30 in. barrel.

S13.05 practical cement blocks ack ack whole, half and quarter blocks. Turns out 100 blocks a day. We can supply you complete equipment for making cement blocks and other gle barrel, with ejector, 30 in. barrel.

CEMENT BUILDING BLOCK MACHINE.

The finest ever for pumping water, running cream separatator, etc. Complete withitrimmings. Full instructions for installing and operating. Sold on 30 days free tral. 2 H. P. Price. \$36.00 4 H. P. Price. \$64.00 FILL OUT THIS COUPON

Chicago House Wrecking Co. 35th and Iron Sts., Chicago.



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We publish a 1,000 page handsomely illustrated catalog that we call "The Price Wrecker." It is a book descriptive of our operations. It explains our purchases at Sheriffs Sales, Receivers' Sales and Manufacturer's Sales, Receivers' Sales and Manufacturer's Sales. The goods are shown true to life and Soy our customers have made us thousands of friends everywhere. No chance for you to go our boad, binding guarantee is fully outlined. The liberal terms we make our customers have made us thousands of friends everywhere. No chance for you to go our boad, binding guarantee is fully outlined. The liberal terms we make our customers have made us thousands of friends everywhere. No chance for you to go our boad, binding guarantee is fully outlined. The liberal terms we make our Customers have made us thousands of friends everywhere. No chance for you to go our Customers have made us thousands of friends everywhere. No chance for you to go our Customers. Our Catalog is the most wonderful book published customers. Our Catalog is the most wonderful book published customers. Our Catalog is the most wonderful book published customers. Our Catalog is the most made us thousands of friends everywhere. No chance for you to go our boad, binding guarantee is fully covering the various subjects.

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In addition to our mammoth thousand page catalog, we publish several special booklets more fully covering the various subjects. GROCERY PRICE LIST LADIES' WEARING APPAREL

Read what the Chicago House Wrecking Company customers say:

Chicago House Wrecking Co., Chicago, Ill.

Gentlemen:—I suppose you have already received the order from Dr. Chas. P. Snyder for barn No. 262 for which I induced him to send for. I hope you will send all good sound material for same. And,

Chicago House Wrecking Co., Chicago, Ill.
Gentlemen:—I am more than pleased with house design No. 6 which I received from you. It is fine. MORRIS WILSON. (Signed)