The Only Weekly Agricultural, Horticultural, and Live Stock Journal in the State.

DETROIT, MICH., SATURDAY, APRIL 11, 1914.

True Stories About Self-made Farmers

How by Careful Management and the adoption of a three-year crop rotation a young Gratiot County farmer accumulated a property worth \$12,000 in a dozen years

standard.

Success may come in a variety of ways. One may succeed through ac the reader would undoubtedly like to yields, and Mr. Brown's testimonial is farming districts. The lambs are uscident—what we frequently call "good know the crop rotation used in this that the results are definite and well ually dropped early, put onto pasture Or it may be the result of questionable shrewdness whereby one gains, but someone else must lose through contributing to that gain. But the success that usually gives the greatest satisfaction is the one that comes by way of honest, intelligent and persistent effort. Mr. Brown's success has come over the latter road.

Since we are speaking of success in farming, we need to measure it according to agricultural standards. Today Mr. Brown has 80 acres of the finest land in Gratiot county, and that means as good land as it is possible to find anywhere in the state, well fenced, with buildings that approximate in value \$3,500, land in a high cultural condition, fully 10,000 tile in just coming into bearing-in all, a raised a family of six children.

tem of general farming has been fol- oats and that with clover, and the rotation, he believes more economilowed. The usual variety of grains other consists in sowing wheat after cal results are obtained than without has been grown, and hogs, cows, beans and seeding to clover. sheep, horses, and poultry raised.

of 1913 varied in some of its details from that of other seasons, it is quite typical of the plan followed by Mr. Brown and will give the reader an idea of the proportion of each of the general farm crops that he puts out. There were four acres of rye from which he secured considerable pasture, and 61 bushels of grain; eight acres of oats which yielded 400 bushels; ten acres of hay that produced approximately 20 tons: 18 acres of corn that averaged 110 baskets per acre; ten acres of beans that matured a crop of 168 bushels, machine measure, or 180 bushels as returned by the elevator; an acre of potatoes from which were harvested 80 bushels; 11 acres to pasture; 10 acres to woodlot and eight acres to roads, lanes, fences, yards, etc.

Beans have been the main cash crop, although wheat is grown frequently. The remainder of the crops are practically all fed out to the different kinds of stock. Following such a scheme it has been possible to greatly improve the fertility of the land. It is only fair to state that the

CUCCESS is a relative term. By farm purchased by Mr. Brown had ing it into the rotation every three manure alone and consequently it is it we usually mean that a man been rented for a number of years years, by feeding the bulk of the pro-cheaper. has prospered as well, or better, previous and had consequently reach- ducts grown upon the farm, and by than the average of his contemporar- ed a low stage in the scale of fertil- returning manure to the fields, re- farm, sheep and hogs make up the Walter M. Brown, of Gratiot ity, but that every field is now pro- markable strides were made in devel- larger part. The flock of breeding county, has succeeded in his farming ducing very satisfactorily as may be oping productiveness during the first ewes consists of 25 grade animals. In venture, if we measure it by such a gathered from the above catalog of few years of his occupation. Recently disposing of the lambs from these commercial fertilizer was added to ewes, Mr. Brown follows a practice Before mentioning the live stock the list of agents used to get better that is not common in most general-

In the live stock department of the and carried through to September, when they are turned off direct from the field. The returns, considering the additional feed required for the winter, he believes to be much better than from the usual method of holding till December or later. Bean pods, cull beans, and some oats and corn are fed to the breeding ewes.

Two brood sows are kept. These sows usually raise about 30 shoats each year. These shoats consume a considerable portion of the corn grown, besides skim-milk and other by-products.

From three to four cows are kept for dairy purposes. The milk is separated on the farm and the cream sold to a local dealer while the skimmilk is disposed of as stated above. Young stock not wanted for dairy purposes are fed, frequently with other cattle bought in the neighborhood. The dairy cows, young cattle and the sheep, are capable of consuming the corn fodder, and other coarse feed grown upon the farm.

The chickens are common stock and are kept for the eggs they produce, as well as the surplus birds that are annually turned off. The eggs are sold at a near-by store. About 50 hens are carried over each winter.

The motive power of the farm is furnished by three work horses. While there are times when it crowds three horses to do the necessary work, they can do it under average conditions and keep down expenses during the slack months. Occasionally a colt is raised, the sale of which adds to the income of the farm.

There are those, no doubt, who will criticise some of the practices followed by Mr. Brown, but no one knows better than he himself that this farm can be made to return larger revenues. He appreciates that a better class of stock, the enlargement of his dairy business, the introduction of the silo, would all enhance the earning power of his equipment, and now that he has gotten well out of debt he proposes to make these changes. But we contend that the lack of these things makes his success the more remarkable. He has more than made ends meet, with the handicap of methods that one with more capital might adopt. What might have been his success had he been in a position to introduce these from the start?

There is one lesson that the owner



working condition, and 30 apple trees General View of the Farm Buildings of Walter Brown, of Gratiot County.

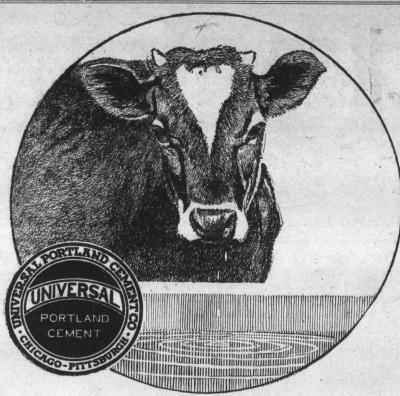
property worth in round numbers, instance. Like most practical men, worth while where the soil is well-

While the cropping for the season in building up this farm. By bring- ly balanced ration than with barnyard

\$12,000. When he came from Clinton Mr. Brown has always felt that each drained, but in places where provicounty in 1900 Mr. Brown would have particular case may require special sion has not been made to relieve the readily parted with his earthly be-handling as to the manner of crop-soil of surplus moisture the results longings and his capital stock for ping; however, he has two three-year from the use of these fertilizers did \$1,000. His accumulation since has rotations to which he adheres closely not appear to be sufficiently large to all come from his farm. Not only except where he feels that the field warrant the expense. On drained land, this, but he and his good wife have would benefit by some variation of however, by combining manure and the regular order. One of the three-commercial fertilizer, and the use of To accomplish these results, a sys- year-rotations is to follow corn with clover once every three years in the the commercial product, that is, it is Clover has been the important crop possible to feed the soil a more near-



Beans are the Main Cash Crop, Although Wheat is Grown Frequently.



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undrained land, no buildings, poor fences, etc.

Mr. Brown does not take the full this farm. His good wife and partner, he declares, has contributed every bit as much as he himself—her industry, economy and encouragement always lightening the burden and adding to a rye crop.

I have a field of five acres which I manured last spring, plowed, sowed beans, which were good. In the fall I just worked it over and sowed it to rye, which is also standing good. My neighbors advise me to plow it under and sow corn on it, or leave it go for the income and suppose the standing the Crop Motation. the income and unmeasurably to the pleasure of farming.

FARM NOTES.

Improving a Run Down Soil.

Improving a Run Down Soil.

I have 20 acres of very stony, poor land which I would like to improve. I would like to pasture the field this summer, then plow it in the fall and sow rye. Would cowpeas be a good crop to sow for both pasture and fertilizer and would sheep do well on such pasture? I sowed sweet clover here last year with no success.

St. Joseph Co.

N. D.

Since sheep are to be pastured on this field this summer, it would be plow do as well as to plow the land a better plan to prepare a good seed and sow to Dwarf Essex rape this spring. Then in late August disk leaf to the control of this spring. Then in late August unsa last year to up and sow to rye and vetch. The sod.

Van Buren Co. cowpeas would be a good crop to im
Name A good seed bed can be prepared

A good seed bed can be prepared as good sheep pasture as the rape, cattle but have not been used yet to fully as good. any extent as sheep pasture in this MODERN CONVENIENCES ON THE state, although doubtless they could be so utilized.

Seeding Clover in Buckwheat.

to sow to buckwheat this season. Also would like to seed it to mammoth

Clover can often be more successer grain crops, provided the soil has been so handled as to conserve its moisture content until the buckwheat dry at this season of the year, there would be little prospect of success with the clover seeding.

Seeding Sandy Land to Clover.

Seeding Clover with or without a Nurse Crop.

Have a field which was in potatoes

If a light seeding of either oats or

of this farm would teach with much barley is used as a nurse crop and emphasis, and that is the advantage same is cut for hay before the nurse to the soil of putting clover in the ro- crop has caused the young plants to tation every three years. By so do- suffer for moisture, this would be ing he has been able to make a prof-fully as advisable as sowing without itable farm of one that was badly run a nurse crop and perhaps more so down. He contends that it has been where there is considerable summer this practice which has brought him grass as described in this inquiry. over the obstacles of a heavy debt, The oats would be more desirable considerable sickness, run-down and from the standpoint of cutting same for hay, although on a light, thin soil a large growth could not be expected.

Planning the Crop Rotation.

a rye crop. Saginaw Co.

The disposition of this field should depend largely upon the question of crop rotation. If desired, it could be seeded to clover in the rye this spring, or if a longer crop rotation is planned and the field is needed for crops this season, the rye could be plowed down and planted to corn. Other things being equal, a short crop rotation is best under average Michigan conditions for the maintenance of soil fertility.

Cultivating vs. Plowing for Oats.

this spring. Then in late August disk last year was in corn, and before that

for oats with a good cultivator, but while if the vetch is sown with the the work will not be very much less rye, this will provide a leguminous than would be required by plowing. If crop to utilize for hay or pasture, or to a thorough job is done, however, the plow down next spring. Cowpeas are prospect for an oat crop on such soil said to make excellent pasture for as mentioned in this inquiry would be

FARM.

There is no reason why many farm-I have a ten-acre field that I want ers could not have some of the modern conveniences enjoyed by people colover at the same time. As I have not had any experience with seeding in buckwheat I thought perhaps it would not be advisable to do so. Perhaps some Michigan Farmer reader could give their experience along that line.

Leelanau Co.

Subscriber.

Cleaver according to mammoth the conventedness enjoyed by people who live in cities and villages, if they would only think so. Because there are many things that any ingenious farmer could do himself so the expense would be very little; such, for instance, as making a good drain directly from the kitchen in which wash rectly from the kitchen in which wash water and other slops could be fully seeded in buckwheat than in oth- thrown, and carried several rods from the house, instead of being thrown on the ground near the door, which is very unsanitary, to say the least. And is sown. If, however, the ground is if the well is a number of feet from plowed just before the buckwheat is the house the water could be forced sown and the weather happens to be into a tank in the kitchen by a hand force pump and thus save the wife many steps every day. As many farmers have gasoline engines, the work of pumping water into the house Will you please tell me the best as well as the barn, can be utilized and quickest way to get the following for this purpose. A gasoline engine described land seeded to clover? Soil described land seeded to clover? Soil is a sandy loam; has been in hay for about four years, and June grass is quite thick. Could I plant to beans and after harvesting same sow lightly with timothy as a nurse crop for clover the following spring?

Saginaw Co.

F. R. D.

This purpose. A gasoline engine is no longer considered a luxury, but has become almost a necessity on nearly every farm of any size, because it can be put to so many labor-saving uses on the farm. And this is one of the principal things every one of the principal things every This plan would not work out in farmer must take into consideration practice. The timothy sown in the at the present time if he makes a fall would appropriate too much of success of his business. A neighbor the plant food and moisture to give living about a mile from my place, the clover a good chance to become who has a gasoline engine, has reestablished when sown in the spring, cently purchased a storage battery If there has been difficulty in getting and installed a perfect electric lightthis land seeded, it might pay to ap ing system in his house and barn. ply lime then sow to clover with a And when he is running his engine to thin seeding of oats following the separate his milk or pump water, beans, and cut the oats for hay so as he can store up enough electricity to to give the clover the best possible light his house and barn at night, so he does not have to be to any extra expense by running his engine on purpose to store up electricity. For this reason, aside from the expense of in-Have a field which was in potatoes last year and wish to seed to clover this spring. Which would be the best way to seed, without any crop or sow barley with the seed? The land is quite light and summer grass comes in quickly. Would barley be worth anything for hay if cut green?

Branch Co.

A. W. C. reason, aside from the expense of installing, (which was not large), his stalling, (which was not large), his without lights. This shows what many farmers can do if they wish, without waiting perhaps for years for some power company before they could get electric lights. Ottawa Co. JOHN JACKSON.

SWEET SEED, pure white and biennial yellow. Prices and circular how CLOVER to grow it, sent on request. Everett to prove the sent on request. Every Barloy Barloy

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J. H.

is to send a small sample of the seed weather comes in the spring.—Eds. to Prof. Muncie, East Lansing, Mich., who is making special investigations in the matter of bean diseases in Michigan. If the beans show brown or yellow spots it is a safe conclu-that Mr. Lillie said he was going to sion that they are infected with one sow some flax in his oats this spring, or both of these diseases, but they so thought I would offer a few sugmay be infected even if they do not gestions. He will get better results indicate it to the inexperienced ob- if he sows the flax with barley, as server, hence it is better to send a they will ripen about the same time. small sample from the seed stock for Also, in sowing the flax do not mix it expert examination.

the bean stock grown in lower Mich- grain is half out. We use a grass igan is infected to some extent, it has seeder, sowing the flax after the drill servation that many sections in threshing time the flax will come out northern Michigan where the bean under the separator, so there will be crop has been grown for but a short no need of running the grain through time are practically free from these a mill. We usually sow about three fungous diseases as yet, and if the quarts per acre. home-grown seed is infected it will pay a large dividend on the investment to secure seed from some. northern Michigan point. In several coses in Shiawassee county where this northern grown seed was planted side by side with home-grown seed little more, but the beans run smallfor the increased cost, in the opinion of many who have planted them. Rural." This difference in the size of the beans is apparently due to climatic conditions as these beans will in bushels of pure seed. crease in size when grown in southern Michigan counties.

Securing the cleanest possible seed seems to be the only practical means of insurance against loss from these ing the coming season. The variety bean diseases which is available at employed is the Wisconsin No. 8. the present time. The scientists at M. A. C. are working on the problem of controlling the diseases by the treatment of the bean seed, but no tricts of Iron county. Two lines of definite results have as yet been announced. It is up to the bean grow- growing and poultry raising. ers of the state to make the best missioner of Schools, John F. Mason, possible selection of seed for this will devote a large part of his time year's planting, and the wise grower will not delay a move in this direction until planting time arrives.

THE CONSERVATION OF MA-

for manure is on the field and not in Iron county is splendidly adapted to the yard at any time; that there is potato culture. Herman Talbot, of more waste in the yard than in the Iron river, a 1913 club member, refield. Now at breaking up time is a ports a yield of 43 crates from onegood time to notice. While you watch eighth acre. the colored water from the yard, go to the dead furrows or runs from the ing as a project will select from fields where the winter's manure has among four standard breeds. The been spread. Go farther and look at White Leghorn, Rhode Island Red, the brook that takes the water from White the yard and the one that takes it Rocks are the breeds. from the field. Follow it to the rivfrom, yard or field?

Tuscola Co. D. MALIN.

WHAT ABOUT THE SEED BEANS? the very greatest economy in the conservation of the farm manure it The beans in this section are more should not be applied to the fields or less diseased. Is it safe to plant when the ground is frozen and covereven those affected the least? Is ed with snow. But it is equally true there any way to treat them that will the disease are to make the that for such consequences of the kill the disease so as to make the that for such conservation of the seed perfectly reliable? should not be allowed to accumulate As has been previously stated in in the yard and lie exposed to the these columns, bean growers cannot rains and, as is too often the case, be too careful about the quality of to the wash of the eaves of the barn. the seed which they plant this sea- The little red stream will be observson. Of course, it does not matter ed from the yard quite as readily as whether home-grown seed or seed se- from the field. The very best way to cured at a distance is used if it is conserve the value of the manure is free from anthracnose and blight, the to store it in a manure shed, well fungous diseases which are so pre-packed so as to prevent fire fanging valent in the state at the present until the ground becomes settled in time, and which are damaging the the spring. This being impractical bean crop each year to a greater ex- on many farms both practical farmtent. In fact, the home-grown seed ers and scientists are pretty well might be preferable if it is free, or agreed that the loss is less where even reasonably free from these disput on the field as soon as made, eases. If there is any doubt about than where the manure is allowed to this, however, the proper thing to do accumulate in the yard until settled

SOW FLAX WITH BARLEY.

In your issue of March 21 I noticed with the grain to sow with the drill While it is probable that most of as it will all work out before the been found from experience and ob- and then rolling the ground. Again at

Huron Co. THOS. RAWSON.

BOYS' AND GIRLS' CLUB WORK.

Alpena County.

About fifty boys and girls under the leadership of field agent, H. G. last year, the yield was several bush- Smith, of Alpena county, are planels greater per acre for the northern ning upon entering a potato-growing grown seed. The seed will cost a contest. Each child will grow the same variety and the acreage will be er in size so that there are enough limited to one-eighth acre. All will more of them per bushel to make up plant the same variety, the Late Petoskey, sometimes called "The Dusty Through the generosity of a local banker each contestant will be provided with one and one-half

In spite of unfavorable climatic conditions, a successful corn contest was conducted last year and many boys will continue to grow corn dur-

Iron County. Over 200 boys and girls are entered for club work among the rural diswork are being undertaken, potato during the summer months to visiting club members and assisting them in developing their projects.

All entering the potato contest will grow the Sir Walter Raleigh, pure seed being obtained through County Agent R. G. Hoopingarner. The basis Popular opinion is that the place of acreage is made one-fourth acre.

> Contestants choosing poultry rais-Wyandotte, and Plymouth

Each contestant will hatch and er. It is red. Where did it come rear the chickens from one setting of 15 eggs. In case of misfortune, a secsetting may be secured and a fresh start made.-C. A. Rowland, Assist-

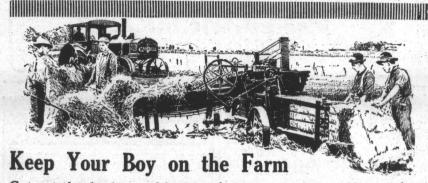


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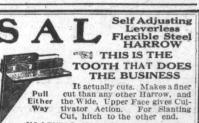
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Live Stock.

A GOVERNMENT HORSE FARM.

the Bureau of Animal Industry of the Department of Agriculture, the main purpose of which is to breed and improve Morgan horses. There is an old gentleman living in Middlebury who has always bred Morgans and spent much time and money in advocating their superiority. In 1906 he succeeded in interesting President Roosevelt and the then United States Senator from Vermont in the necessity and importance of perpetuating this sturdy animal, with the result that the Department of Agriculture secured and established a small stud which was maintained in connection with the Vermont Agricultural Collegs. In the following year, however, this wealthy Vermonter sold Uncle Samuel three good-sized farms for the munificent sum of three, dollars, on condition that the land be devoted to breeding Morgan horses. Thither was moved the government Morgan stud.

At the time of our visit there were about 60 head of all ages upon the farm. The mares and colts were running in pastures, while 12 to 15 stallions were stabled in roomy box stalls. The pastures are provided with water in each field supplied from a central system at the buildings and pumped by electricity operated automatically. These horses are given plenty of feed but no extra care, with the idea of rearing them under practical conditions which will maintain the proverbial Morgan hard-

The numerous stallions maintained are utilized in developing another idea of the men in charge. The government is compelled to buy annually many horses for cavalry mounts and other army purposes. Such horses must be of a certain size, color, weight, and build, which requirements are not easily met. These men conceived the idea of using the Morgan stallions to produce horses of the character they must have. Here is the plan they are practicing.

These stallions are traveled in contiguous territory, so far confined to New England, and mares are solicited under certain conditions. Any farmer may breed a mare to a government stallion under the terms of a signed contract. This contract provides that the owner of the mare is given the option of either paying a service fee of \$25 when the colt is three years old, or he may sell the colt to the government at a determined price of \$150. If he elects the former, well and good; he pays the money and the transaction is ended. If he elects the latter, the government man inspects the colt and if it does not meet the requirements is rejected, and no service fee is charged. Upon such rejection the farmer may do as he pleases with the colt. If the government buys the colt no service fee is deducted. The purpose of all this is to interest the farmers in raising marketable colts, and at the same army mounts.

qualifications.

Since its acquisition the farm has been much improved by the erection Near to Middlebury, Vt., is a farm of substantial wire fencing, good owned and operated by the Federal practical barns and water system, Government, under the direction of while the superintendent informed me he uesd \$400 worth of dynamite last year in cleaning out trees from certain fields. The larger part of the farm is in pasture. The main crops are hay, corn fodder and oats.

> Aside from the horses the only live stock is a flock of Southdown sheep, numbering about 50 ewes and their produce. They seemed to be good representative specimens of the breed and in fine condition. One man gives this flock his entire attention. How much more in keeping with the main purpose and character of this farm would be the maintenance of a choice flock of Merinos! They have certainly done as much to make the name Vermont known to all the world as have ever Morgan horses, as well as to bring its people wealth; likewise are they as practical and as valuable. For centuries Spanish government and nobility kept Merinos while for more than a century and a quarter the French government, despite revolutions and wars, and the fact that its form ran the entire gamut from anarchy to despotism, from monarchy to democracy, has preserved unharmed, its flock of Merinos. What more proper, or more fitting, then, that Uncle Sam should maintain and improve a flock of Vermont Merinos on his farm in the very center of the section which was most instrumental in developing and introducing these woolbearers, whose improvement of the native flocks stands out as one of the greatest feats of American live stock development in all the world in the nineteenth century?

This farm and its breeding operations is under the direction of Mr. Rommel, of Washington, while the active superintendent is Mr. Fred Hammond, a grandson of Edwin Hammond, one of the greatest breeders of Vermont Merinos. Everything about the farm is kept neat and apparently run practically and systematically. Especially noticeable was the courtesy and geniality of Mr. Hammond; upon my remarking that I was taking too much of his time, he replied that he was there to show the people, whoever came to see, the character of the farm and the manner of its operation, for it belonged to the people.

Washtenaw Co. Roscoe Wood.

DEVELOPING A SPRING FOR WA-TERING STOCK.

I have 25 acres of muck land with a county drain ditch on one side, which I use for pasture for horses and cattle. Now cattle will go to water in ditch, but horses will not, being too soft; also tried a wooden slanting bridge to water's edge, but still horses will not go, so I have to dip water out of ditch five feet deep for all stock to drink. I have a good spring in bottom of ditch. Can it be forced to surface of adjoining land? Neighbors adjoining ditch will not permit damming of ditch, so I can not use hydraulic ram.

Oceana Co.

B. J.

Mr. Johnker's situation as stated, is I have 25 acres of muck land with

Mr. Johnker's situation as stated is time establish a source of supply for aggravating. No one can advise, but might suggest. The answer seems to Naturally there must be certain depend on the spring. If there is limitations as to the mares which sufficient flow why not take a dry may be bred, else there would be ser- time and dig down, putting in crock; vices which would be sure to be grat- using posthole digger, taking pains to uitous. So far, however, the only make crock fit so water cannot espractical limitation has been that the cape, and follow with crocks similar mares offered must be sound; of to crock wells, using cement for makcourse, unreasonable lack of size may ing tight joints. Perhaps some gravel furnish cause for rejection. In ac- in the bottom. Perhaps by making cordance with this contract and con- secure so water can not escape, the ditions 300 mares were bred in 1913, overflow might be high enough to and as many more rejected, due to permit trough to carry to tank. If failure to comply with the necessary not, would have a well on which he DITCHER. could use pump.

FEEDERS' PROBLEMS.

Rape for Hog Pasture.

I have five acres of sandy loam which has been considerably run and was seeded last year, but I lost the seeding. I wish to sow to something that will build up the land and make hog pasture for the coming season. How would rape do? How much should I sow per acre, and at what time?

time? Oakland Co.

Nothing could be sown on this land that would make better hog pasture during the summer than Dwarf Essex rape. It also seems to have a beneficial effect on the soil, but it is not a leguminous plant and does not add actual plant food to the soil. It seems, however, to store considerable fertility in its strong root system and this becomes readily available for succeeding crops. About five pounds per acre sown broadcast, on a well prepared seed bed will be sufficient seed to use. It can be sown as early in the spring as oats, if desired, or later for fall pasture if preferred.

Grain Ration for Farm Horses.

Can you tell me what is the best can you tell me what is the best balanced ration for a horse that is working hard, weighing about 1,200 lbs., and how much would you feed at a meal? Also, how much hay would you recommend feeding, mixed timothy and clover?

Montmorency Co. The farm horse at maximum work requires about the same ratio of nutrients in its ration as the dairy cow. Oats constitute a well balanced ration for the work horses, and a combination of feeds which appriximate the same ratio of nutrients will give the most economical results. The amount required to keep the horses in good condition at maximum work will vary with different individuals, varying from 12 to 16 lbs. of oats or equivalent for a horse of 1,200 lbs. in weight. Horses at farm work should be given a moderate feeding of hay morning and noon, and a liberal feed.

LIVE STOCK NEWS.

Importations of Mexican cattle are encountering various obstacles, and they are not as large as had been expected. Risk in handling these cattle is great.

Cliff Cherry, a large land owner and cattle raiser of Kendall county, Illinois, was in the Chicago market on a recent day with a shipment of three carloads of fat cattle. He reported a scarcity of cattle in this part of the state. Mr. Cherry is the owner of over 300 cows and heifers which he is breeding and is a firm believer in raising beef cattle for the market.

Texas cattle are reported as rapidly

Texas cattle are reported as rapidly getting into good condition, and during April, May and June large shipments will be made from that state. ments will be made from that state. San Antonio expects that about 5,000 cars of cattle will be gathered in that part of Texas, and if the cattle are not rushed to market too much in a lump, they will be absorbed without any difficulty, as there is sure to be a large demand at the chain of Missouri river markets. souri river markets.

The time of the year when calves are marketed liberally is here, and prices for calves in the Chicago market have experienced a regular smashup, but thus far the retail price of veal is as high as ever, despite the fact that the best veal calves have been selling for \$8@8.50 per 100 lbs. Tuesday is known as "calf day," and on that day the offerings are much larger than on other days of the

The market for hogs is showing a strong undertone still, with every prospect of a continuance of high prices, and it is not at all unlikely that the better class will go higher than ever. The high point of the year than ever. The high point of the year in the Chicago market was reached some time ago, when prime butcher weights sold at \$9. Some dealers regard an advance of choice light and medium-weight butcher hogs to \$9@9.25 as a basis as quite likely, but they do not think that heavy packing hogs are likely to sell on a \$9 basis, at least for any considerable time. It is natural as the receipts run more and more largely to heavy hogs that these should drop to a marked discount and that the choicer lots of hogs of lighter weight should sell the highest of all, as has been the rule in former years.



What Ruins Your Tires?

Note How We Combat It in No-Rim-Cut Tires

Is it rim-cutting? That does ruin almost one in three of the old-type tires. It is the chief cause of tire expense.

But we make that impossible in No-Rim-Cut tires by a method which we control.

Is it blow-outs? No-Rim-Cut tires are final-cured on air bags, under actual road conditions. Thus we save the countless blow-outs due to wrinkled fabric.

This extra process-used by no other maker-costs us \$450,000 yearly. But it saves our tire users millions of dollars in

Is it loose treads? We paid \$50,000 for control of a process which lessens this danger by 60 per cent.

Is it tread wear? Then use Goodyear Double-thick treads All-Weather treads. made of very tough rubber. Made flat, so they run like smooth treads on dry roads, yet they offer wet roads a resistless grip. These

treads are immensely enduring.

Needless Waste

Any tire cost you suffer for lack of these features is a needless No-Rim-Cut waste. tires offer all these protections. No other tire in the world offers one of them.

That's why these tires rule Tiredom. Last year our sales were \$33,000,000. We sold 11 times as many tires as in 1909. And this year's sales show the largest increase in our

Men have bought, in the past two years alone, more than two million Goodyear tires. They bought them because countless mileage comparisons have proved them the greatest tires.

Lower Prices

Prices on No-Rim-Cut tires, in the past year alone, have dropped 28 per cent. Now they far undersell some others. But that is due to our mammoth output, to our efficiency, and to our modest profits. Last year our profit averaged 61/2 per cent.

At Goodyear prices you can get the best

tires men can build. And you get four costly, tiresaving features found in no other tire.

Give these tires a chance to prove themselves this summer.

Goodyear dealers are everywhere.

THE GOODYEAR TIRE & RUBBER COMPANY, AKRON, OHIO

(IOOD YEAR

No-Rim-Cut Tires

With All-Weather Treads or Plain

Toronto, Canada Branches and Agencies in 103 Principal Cities

London, England DEALERS EVERYWHERE

Mexico City, Mexico Write Us on Anything You Want in Rubbes



and get a length and quality of wool that will bring the highest price. The Stewart runs so easily a child can turn the handle while you shear.

Extra profits soon pay for it. It's the most perfect hand operated shearing machine ever devised. Has ball bearings in every part where friction or wear occurs. Has a ball bearing shearing head of the latest improved To clip hor Stewart pattern. Price complete, including 4 combs and 4 cutters of the celebrated from their feed, Ins.

Get one from your the "Stewart," It's a stewart, It's a stewart it's a stewart better and get from their feed, Ins. Stewart BEARING Clipping Machine turn, does the tastest work, stays.

Sharp longer and is more durable than any other clipping machine made, Get one from your dealer, price \$750

Or send us \$2.00 and we will ship

C.O.D. for balance. Satisfaction guaranteed. and we will ship C.O.D. for the balance. Money back if you are not well pleased with it.

\$1150

CHICAGO FLEXIBLE SHAFT CO. 115 LaSalle Ave., CHICAGO, ILL Write for FREE catalogue showing most complete line of Sheep Shearing and Horse Clipping Machines.



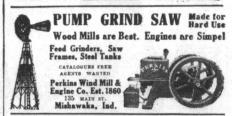
Use NATCO Tile—They Last Forever

Farm drainage needs durable tile. Our drain tile are made of best Ohio clay, thoroughly hard burned. Don't have to dig 'em up to be replaced every few years. Write for prices. Sold in carload lots. Also manufacturers of the famous NATCO IMPERISHABLE SILO, Building Blocks and Sewer Pipe.

NATIONAL FIREPROOFING COMPANY, Fulton Building, PITTSBURG, PA.

When writing to advertisers please mention the Michigan Farmer





IX L THEM ALL. BEST STEEL MILL. STRONGEST STEEL TOWER. No

POWER AND PUMPING MILL PHELPS & BIGELOW WIND MILL CO., Kalamazoo, Mich.

When writing advertisers please mention The Michigan Farmer.

A Recent

U. S. Government Report

Makes plain your need of a

CREAM SEPARATOR

The skimming device of which is GUARANTEED NEVER TO RUST.

The scientific staff of the dairy division in the United States Department of Agriculture recently conducted a series of experiments to learn what effect, if any, iron (rust) has on cream and butter.

The tests definitely established the fact that even minute particles of iron (rust) caused certain undesirable flavors and that in every instance when butter was scored a few days after the making, the samples in which iron (rust) was present scored lower than the butter made from cream which contained no iron (rust).

In using the United States Cream Separator with non-rusting slimming sections of nickel silver you avoid all risk of having "metallic" butter. The U.S. sections are positively guaranteed never to rust. No other separator manufacturer gives you a printed nonrusting guarantee.

Yet, United States Cream Separators with this big exclusive improvement are sold at no higher prices than other separators without it.

It is time well spent to learn from your U. S. dealer or us more about the exclusive U. S. non-rusting feature.

VERMONT FARM MACHINE CO.,

Chicago Salt Lake City

Bellows Falls, Vt.

Portland, Ore. Los Angeles



very small cost can be made up-to-date etter than ever. We have the greates that has ever been put on a wood stave silo. You llast longer and make better silage—no danger o ing down—you never have to tighten and loose the hoops—our patent automatically take care of this part. Our customers say it is Write for Catalog Today et us show you how to save money a new silo and make your old one tter than ever.

WHOLESALE FEED Ask for price list. Everything in Feed.

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ROOF YOUR SILO

With a Permanent Roof

To insure permanence the Silo roof must be built and nailed on rafters regardless of whether it is a stave, steel or masonry silo.

The beveled or keystone construction of the stave silo demands a rafter built roof to keep the silo perfectly round.

The wind plays havoc with an insecure roo It's a long ways to the top of your silo. Put on rafter built roof that will stay put, such as the

ECONOMY STEEL SILO ROOF

First in Strength and Permanence. For any kind of silo. Galvanized steel. Rust and fireproof. Cheapest and Most Durable.

FIRST EXPENSE---LAST EXPENSE

No silo complete without the Economy Roof. Demand of the stave silo salesman or the man who builds you a masonry silo that he complete it by putting on our Economy Roof. There is no roof just as good or that will last as long.

Dont be satisfied with "just a roof." Insist on the Economy. All silo manufacturers can and the best will supply the Economy Roof. If yours won't write us.

Circular mailed FREE on request. ECONOMY STEEL PRODUCTS COMPANY, 28 North Third Street, Des Moines, Iowa.



KALAMAZOO TANK & SILO CO., Kalamazoo, Mich. eapolis, Minn., Kansas City, Mo., No. Ft. Worth, Tex.

AND UPWARD SENT ON TRIAL **AMERICAN** CREAM

Thousands In Use giving splendid satisfaction justifies your investigating our wonderful offer to furnish a brand new, well made, easy runquart of milk a minute, warm or cold. Makes thick or thin cream. Different from this picture, which illustrates our low priced large capacity machines. The bowl is a sanitary marvel and embodies all our latest improvements.

Our Twenty-Year Guarantee Protects You

Our wonderfully low prices and high quality on all sizes and generous terms of trial will astonish you. Whether your dairy is large or small, or if you have on all setarrates of any trial will astonish you. Whether your dairy is large or small, or if you have an old separator of a make you wish to exchange, do not fail to get our great offer. Our richly illustrated catalog, sent frof charge on request, is the most complete, elaborate and expensive book on Gream Separators issued any concern in the world. Western orders filled from Western points. Write today for our catalogue for yourself what a big money saving proposition we will make you. Address,

AMERICAN SEPARATOR CO., Box 1061 Bainbridge, N. Y

CONDUCTED BY COLON C. LILLIE.

PRODUCING PURE MILK FOR PROFIT.

Having the herd and having them tested as advanced scientific knowledge dictates, the care which will be productive of the best results is exceedingly important. The cow is very susceptible to external influences. hard weather invariably leaves its mark upon the milk. The dairy cow should never be permitted to drink especialy in localities which are well populated, for these ponds and streams probably contain the refuse of a dozen farms and a half hundred ed, they can be united again in such households. Pure spring or well water should be given with regularity and in abundance from troughs which 16 or 20 per cent cream. The perare easily cleansed. For this purpose nothing answers better than enameled iron basins.

Do Not Feed Sloppy Food.

The food should be well selected and plentiful and should not be of soft, sloppy kinds, such as distillery or brewery refuse. It should never be kept in lofts above the stable where it is constantly contaminated by the foul odors from below. Great find it economical to have them. care should be exercised in regard to suddenly turning the animals out in the spring to indulge in overfeeding of green grass, which might cause bowel troubles among the children living upon the milk.

The personal hygiene of the cow is The dairy animal most important. ed twice daily. The floors of the milking stalls should be of stone, cement or concrete, and must be carefully scrubbed before the cow is brought in, and left wet, so that no dust will fly from them. A rope or strip of cloth should be suspended across the rear of the stall, separating the tail from switching dirt into the pail. Preceding the milkers, a helper must wash them accepted by the public. the udders, first with soap and then with clean water, at the same time looking for any spots or abrasions. If DOES SILAGE EVER CAUSE COWS such sores exist, the animal must be at once taken from the milking barn and isolated in the infirmary, where she must remain until the place is entirely healed.

Preparation for Milking.

The milkers themselves should have nothing to do with the preparatory work but must be ready to follow the washer at once. Their costume should be pure white from head to foot, including linea caps, all fresh from the steam sterilizer, so that their clothing may be protected from dirt and grease, which may later be sources of contamination. The hands should be washed first with green soap, then after rinsing, soaked in a solution of boric acid or some mild antiseptic and washed again in boiled

The first few streams from each teat should be allowed to fall into a refuse bucket, thereby washing the dust and dirt out of the milk chantwo layder contains bacteria or germs which lambs. I have fed it for 25 years and will create deleterious changes in the never had anything like this occur.

milk, but these are absolutely inert at low temperatures and if the milk is chilled enough after milking, and kept cold, it will keep for days.

Pure Milk Keeps Well.

After cooling the milk should be at once bottled, sealed and packed in crushed ice. Milk so handled has been sent to London and to Paris, and reached there without the slightest change. If milk is put up as above outlined, and proper care is used in so doing, there will be very little objection to the product. There is one additional procedure, however, that may be considered. It is best for every dairy to have a centrifugal sep-Subjecting the animal to storms and arator, with which the milk and cream can be immediately separated. The advantage of this is, that in feeding infants, physicians like to feel from pools or from running streams, that in dealing with milk they have an article of absolutely known percentages.

If the cream and milk are separatpercentages as may be desired. Milk should contain four per cent fat, and centage of fat must be plainly stamped upon the bottles. Aside from the great convenience, the separator is known to throw out mucus and minute blood clots, so small that they pass through the most perfect filters. This makes the milk more pure. To be sure, the separator and cooler are expensive; so are the self-binder and the threshing machine. However, we

Clean Milk Profitable.

The dairyman will find it most profitable to him to follow out these general outlines in placing a high grade article upon the market. If he is supplying a city market, he must face the fact that civilization is advancing along lines which indicate that other must be carefully curried and comb- than pure milk will have no demand in the near future.

Now is the time that money can be made and a reputation established by offering to the market a milk which can be recommended by physicians and laity alike. Pure, absolutely pure milk, is the only commodity of which the demand is so much greater than the hind legs, to prevent the tail from the supply that the few producers can name their own terms and have

S. VAN AKEN. New York.

TO BECOME INTOXICATED?

A recent article in a local newspaper states that some cows near here became intoxicated from eating silage. I would ling this.
Genesee Co. would like your opinion regard-

I should treat the article in the paper as a huge joke, and a pretty cheap joke at that. Reporters sometimes find it pretty hard work to get interesting news for a cosmopolitan paper, and they seem to amuse themselves by writing things about agriculture of which they know but little.

When corn is put into the silo at the right stage of maturity a slight fermentation is produced, but this fermentation doesn't go far enough to change the sugar and starch to alcohol. It is only the acidity stage of decomposition. It is slightly acid and cows and other cattle have consumed silage for years and they didn't get nels. The balance should be caught intoxicated either. I don't believe in an improved milk pail, so devised it would be possible to get any condition of this sort ers of sterilizing gauze and one inch been kept in the silo for as long a of absorbent cotton. After milking period as ten years and then fed to one cow the milk should be hurried cattle, and it was in just as good to the carrier's can, which must im- shape as it was the first year it was mediately be taken to the dairy. put in. It is really and truly pre-Within 12 minutes after leaving the served, and after this slight fermentacow it should have passed through tion at first there is no chemical the cooler and be reduced to a tem- change whatever, and the silage can perature approximating freezing. This be kept year after year. We feed is one of the most important points corn silage, not only to mature dairy in all scientific dairy methods. Even cows, but to young growing dairy the deeper glandular tissue of the ud- heifers, dairy calves, and even to



The women-folks praise the BEATRICE

Cream Separator for its easy cleaning Says Farmer Onswon.

The great bugaboo with most separators is cleaning the bowl. The Centrifugal Washing Device does the trick for the Beatricewashes, rinses, dries and aerates in true minutes.

One of the many good reasons for preferring the Beatrice is that it's a remarkably simple machine -very few parts-all of them easy to get at.

The makers have wisely constructed the Beatrice so it does not give trouble.

When you take home the Beatrice you are not taking home a machine to worry over. It is ready for duty, night and morning, for years to come.

But dependability is just one thing. Don't overlook the other requisites. The Beatrice gets all the cream whether milk is warm or cold. It turns as easy as any separator. And it's no job at all to wash up and clean up when you are through.

Buy your separator with your eyes open. Don't buy any machine till you know the Beatrice. My word for it, it will save you money and worry. Write the nearest office below for catalog and name of local dealer near you.

BEATRICE CREAMERY CO. **CHICAGO**

Des Moines, Ia., Dubuque, Ia., Lincoln, Neb., Topeka, Kan., Denver, Col., Oklahoma City, Okla., St. Louis, Me.

RUN ON KEROSENE 6c for 10 Hours



liscount prices. We Pay Freight.

ELLIS ENGINE CO., 110 Mullett St., Detroit, Mich.

It Pays to Feed **DriedBeetPulp**

Increase production at a lower cost. Better try it, you can't lose. Write T. F. Marston, Bay City, E.S., Mich.



A CHALLENGE! Challenge Churns have made good with 200,000 satisfied users and we can proveit! They are guaranteed to make first-class butter in 5 to 7 minutes. Their practical construction gets all the butter fats. Built along substantial lines, easy to clean, sanitary and 100 percent efficient. Many sizes, Send for Free Descriptive Circular Today, The Mason Míg. Co., Box 11, Canton, O. REGISTER OF MERIT JERSEYS.

Please give conditions in full upon which Jerseys may be registered; also qualifications for entry in the Register of Merit. St. Clair Co.

E. D. D. Cattle can be registered in the American Jersey Cattle Club, that are the product of pure-bred registered Jersey sires and pure-bred registered Jersey dams. When you have such cattle send to the secretary of the American Jersey Cattle Club and get pedigree blanks, and by paying the proper fees your animals can be recorded.

Register of Merit Jerseys is a different proposition. Registered Jersey cattle can only be eligible to the Register of Merit class, when they have produced a certain amount of dairy products in a given length of time. A two-year-old heifer, in order to be registered in the Register of Merit class must produce 250 1/2 pounds of butterfat in 365 days following her freshening as a two-year-old. For every day a cow is over two years old when she begins her test, you must add onetenth of a pound of butter-fat. This increases in this way until the cow is five years old, when she must produce 360 pounds of butter-fat in one year to be eligible to the Register of Merit. This amount holds for all cows five years old or older. She is eligible to registration in Class AA if she has produced the required amount of butter-fat in the year and also carried a calf 155 days during the test period. She is eligible to registration in Class A if she has produced the required amount of butter-fat but not necessarily carrying a calf that length of time.

HOLSTEIN BREEDERS MEET.

Pontiac-East Michigan Holstein-Friesian Association met at the assembly rooms of Pontiac State Hospital the afternoon of March 26. After enrolling of new members a paper from the pen of G. A. Dimoc, of Kalamarkov was more as a paper from the pen of G. A. Dimoc, of Kalamarkov was more as a paper from the pen of G. A. Dimoc, of Kalamarkov was more as a paper from the pen of G. A. Dimoc, of Kalamarkov was more than the state of the s mazoo, was read.

He showed that the foundation up-

on which rests the work of those breeders who have accomplished not

breeders who have accomplished notable results was the painstaking and scientific application of the laws of breeding. These laws were dwelt upon somewhat, particularly the principles of variation and prepotency.

This feature of heredity was traced through high per cent of characteristics received from immediate parents of animal, to the marked influence in determining the strongly line bred character distinctions of ancestors character distinctions of ancestors

many times removed.

Mr. Dimoc was unable to be present, but his paper, "The Successful Breeder," will be sought after as among the best in Holstein-Friesian literature literature.

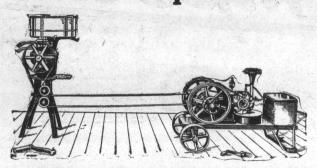
The Hon. D. D. Aitken, of Flint, delivered the address of the afternoon taking up possibilities of organization coupled with the advertising the association is planning to do. The marcoupled with the advertising the association is planning to do. The market question for pure-bred milk (Holstein-Friesian) as well as animals, indicating progress over conditions of 50 years ago, was submitted for earnest thought of the membership. The relation of typhoid and tuberculosis as trick sprintry measures of present to strict sanitary measures of present day was touched upon.

Some instances of error in the tu-berculin test were cited, but in spite of the limitations of test, a hearty co-operation was asked in all matters pertaining to the universal use of it as it is the best means at hand at present to determine the disease.

A review of work accomplished by the breed at the State Fair was followed by a strong plea for additional representation, and a summing up of advertising possibilities in connection with this line was further acted upon by the association at the finish of Mr. Aitken's address, by the appointment of a committee to commence work in this direction at once.

Geo. H. Brownell, of Detroit, gave an enlightening talk on publicity. He discussed the advertising campaign tentatively adopted by the association, and ably seconded Mr. Aitken's putline for creating a pure-bred meat and milk market. He dwelt at some length upon the matter of a staticing length upon the matter of a state iso-lation farm, now growing in popular favor, and reviewed the progress made and the work done for this by Holstein-Friesian interests.

International Harvester Cream Separators



The I H C Line GRAIN AND HAY
MACHINES
Binders, Reapers
Headers, Mowers
Rakes, Stackers
Hay Loaders
Hay Presses
CORN MACHINES
Planters, Pickers
Binders, Cultivators
Ensilage Cutters
Shellers Shredders
TILLAGE
Peg, Spring-Tooth, Peg, Spring-Tooth, and Disk Harrows

and Uisk Harrows
Cultivators
GENERAL LINE
Oil and Gas Engines
Oil Tractors
Manure Spreaders
Cream Separators
Farm Wagons
Motor Trucks
Threshers Threshers
Grain Drills
Feed Grinders
Knife Grinders
Binder Twine

PIGS and calves thrive and grow fat when fed with warm skim milk when fed with warm, skim milk.

You cannot get warm skim milk to feed them unless there is a cream separator on your farm. There is money enough in this one advantage to pay for a cream separator the first year. This is specially true if you buy a close skimming, durable International Harvester cream separator—Lily, Bluebell or Dairymaid.

These separators have all the points which make cream separators good. They have the balanced bowl, the self-adjusting neck bearing, the tool steel spindles, the bronze bushings, the spiral gears, the low supply can, the high skim milk spout, and the open, sanitary base, without which no separator can be satisfactory.

factory.

Some dealer near you handles I H C separators. If you do not know, write us and we will tell you who he is. We will also send you our cream separator book which tells you why it pays so well to buy an I H C separator.

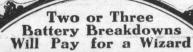
International Harvester Company of America (Incorporated)

CHICAGO

Champion Deering McCormick Milwaukee Osborne

USA Plane





Hasn't this happened to you? At threshing time, engine goes dead from ex-hausted batteries. Two hours lost getting new ones

from town. Sixteen men idle.

Two or three such breakdowns will pay for a Wizard Magneto that will give uninterrupted service throughout your engine's life. Its hot, sharp spark will get all the power out of the fuel. Its simple, rigid,

150,000 Wizard agnetos are used a such engines as: Alamo

Dempster Fairbanks Morse Field Brundage International Harvester

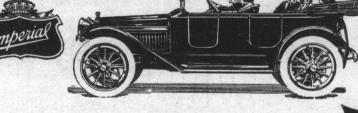
Dervoort Stover Waterloo Boy





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Horticulture.

PROPAGATION OF PLANTS FROM eases such as the anthracnose of the CUTTINGS.

as efficiency in getting plants true to and the cultivation of the ground. the parent stock, the propagation Pruning Gooseberries and Currants from various forms of cuttings is the most important of all methods. The few others are propagated in this way from mature wood cuttings.

buds. Grape cuttings are usually made about a foot in length, and contain from three to five buds. Other cuttings may be shorter. They may be till the sap begins to rise in spring, though it is more desirable to make the cuttings in early winter, put them in bundles of uniform length and bury in the ground below the frost line or pack in sand or moist sawdust in the cellar. The early cuttings callous over, and thus root more readily.

Making Cuttings.

While any cutting may root, the in a half inch. All the wood below the lower bud dries up and perishes, and it is more desirable to have none made, and the cuttings made so that

In spring, as soon as the ground is sufficiently dry to work, the cuttings should be put out. Open a furrow so that only one or two buds will ped back a little. show above the ground. Set the cuttings in the furrow, or trench, six inches apart, being careful to set with bottom or butt end down. Draw the earth up to them and press firmly. The success of growth depends on frequent and shallow cultivation and in keeping down weeds. Grapes, more universally than other plants, are propagated by this method, and with proper care 90 per cent will root. The following spring, these plants will be ready to set in the vineyard or garden where they are to grow.

Propagating Roses.

Roses are propagated from cuttings of either mature or green wood, but need such protection as is afforded by an inverted fruit jar or sash. The 'confined air" causes them to root more readily, after which the glass may be removed.

Where irrigation is practiced, poplar, willow or similar trees may be propagated by setting green posts four to six inches in diameter and eight feet long, at the edge of the ditch where there is a plentiful supply of water. They will soon grow into shade trees. The mariana plum is the only fruit tree that readily roots from cuttings, though under favorable conditions other varieties frequently root in this way.

H. F. GRINSTEAD. Missouri.

FRUITS.

be kept in more vigorous health by room to get among them. is of great help in the control of dis- plants cover the ground

raspberries and the cane borer of the gooseberries and currants, and makes From the point of economy as well more easy the picking of the fruit

for Results.

In the pruning of the gooseberry grape, currant, gooseberry, cranberry, and the currant there are a few imsuch trees as willow, poplar and cot- portant things to consider. One of tonwood, and shrubs of the order of them is to be on the lookout for the hydrangea, tamarisk, privet and a cane borer and cut them out when pruning. This insect usually enters the cane near the top and works The essential method of preparing down. It consumes the pith of the the cuttings consists in cutting the cane and the excrements it leaves wood into convenient lengths, each gives the center of the cane a black length containing from two to five appearance. In pruning, part of the cane older than the last season's growth should be clipped back a little at the top to see whether the center, or the pith, is a healthy green or cut at any time after the leaves fall not. If not, the cane should be clipped back until the healthy pith is reached.

To get the best results from the gooseberry and the currant there should be about five good bearing canes when the bushes are trained in the bush form. The tree form of training is not practical, because, should the borer get into the trunk, it would practically ruin the bush, and also, the top cannot be renewed proper way to cut them is to make as well when the bush is trained in the lower cut just below a bud, with this form. The canes bear their best for about three years, therefore to keep the bush at its maximum in. bearing, the canes should be renewed of this on the cutting. Clean slanting occasionally. The pruning should be cuts with a sharp knife should be planned so that one or two of the shoots which sprout from the ground they will all be about the same length. should be left each year to take the place of the old canes. The tops of the canes should also be thinned out some and if the past season's growth deep enough to contain the cuttings has been very large it should be clip-

> Pruning Raspberries and Blackberries.

raspberry and blackberry patches should also be pruned at this time of the year. It is supposed that the growing canes of the black raspberry and blackberry were summer pruned when about three feet high and the canes thus encouraged to make good laterals. These laterals should now be cut back to about six inches and all but five of the strongest canes should be cut out altogether, as that number will furnish the amount of bearing surface for best results. Of course, if the old canes were not cut out in summer, they should all be cut out in the spring.

The blackberries should be kept in hills as much as possible with about five good bearing canes to the hill. The laterals should be clipped back to six inches in length as in the case of the black raspberries.

Red raspberries need no pruning except to cut out surplus shoots and old canes which were not cut out last summer. In thinning out the shoots only the strongest should be left. They should also be kept in hills with about six shoots in the hill.

TOMATOES.

Tomatoes should be started in flats in the house or in the hotbed early in spring. The plants are much im-SPRING PRUNING OF THE SMALL proved by transplanting into pots, flats or another part of the hotbed, setting them three inches or more Except for the purpose of getting apart each way. They should not be out the old stuff the practice of prun-planted out in the open ground until ing is not thought of as being essen- all danger of frost has passed. Set tial to small fruit culture by a great plants in rows four feet apart and many growers. They fail to realize three feet apart in the rows and that the quality and size of the fruit pinch in the plants so that they may will be better and that the patch can not quite cover this space but allow

cutting out useless parts which act as One ounce of seed will furnish 1,000 a drain on the plants. Pruning also plants. Cultivate thoroughly until the

TROUBLE DEPARTMENT.

Green Crop for Strawberry Ground. Green Crop for Strawberry Ground.

I have a small piece of ground in strawberries which, for certain reasons, I would like to keep in strawberries. This season will be the second picking, and as soon as they are through bearing I wish to plow the ground and sow something on it that will give me something for green manure. I will use both barnyard manure and commercial fertilizer, but want something growing on the ground after the strawberries are taken off. What will be the best crop to sow or plant at that time, about July 15?

July 15? Midland Co.

Turning under the strawberry patch after it is through bearing, will give you some green manure, but as you suggest, it would be best to have the ground covered during the latter part of the summer. If your soil is depleted of humus there is nothing better than sand or winter vetch to sow at the time you mention. With fairly favorable conditions this plant will make a lot of humus and will also gather nitrogen from the air for fertilizing purposes.

If you intend to set strawberries the following spring, with the green manure and barnyard manure you turn under, there is a possibility of this large amount of vegetable material loosening up the soil too much for the best results with strawberries. The vegetable matter may not be decayed enough in that time to give the fertilizing value and will tend to dry the soil on account of its coarseness. It would be advisable to plant some hoed crop the following year and then the strawberries after that.

Care of Young Orchard.

I have an orchard of 150 young trees, consisting of apples, peaches, pears and plums. The orchard has been plowed each spring and a hoed crop raised between the trees. Last season about the first of August I sowed the ground to rye and vetch and have a good stand. The trees are also mulched quite heavily with marsh hay, using tar paper protectors. Now which would be the best for the orchard, to plow it again and for the orchard, to plow it again and keep it cultivated, or to leave the mulch around the trees and cut the rye and vetch for hay? The soil is sandy but in a good state of cultivation and the trees have made a good growth. If you think it would be best to plow it, at what time should it be plowed and how? Two years ago I plowed it east and west, plowing to the trees. Last spring I plowed in the opposite direction. Now it ought to be plowed some other way, but I hardly know how to do it.

Branch Co.

The best way from the standpoint

The best way, from the standpoint of the orchard, would be to continue your practice of sowing cover crops and turning them under in spring unless the trees are making too much growth and therefore will be delayed in coming into bearing. This might more likely be the case with the late bearing varieties, such as the Spy and the Baldwin. The fact that you have peaches and plums scattered through this orchard would make it more advisable to cultivate the orchard, as such fruits always do best under cultivation.

You might plow and cultivate the tree rows and leave a strip of grass in the middle to cut for hay for a year or so, without injury to the trees, if you desired. For trees the age of yours the cultivated strip should be the width of four or five furrows on each side of the tree row. The plowing should be done late in April, or as soon thereafter as possible.

It would be advisable to plow one way all the time, as the roots of the trees then become established to that way of plowing. In changing your direction of plowing you are disturbing and tearing up roots which have become established in the upper soil. It is easiest to plow to the trees but occasionally the furrows should be thrown from the trees so as to keep the ground from ridging up too much.

When in doubt consult the Trouble Department.

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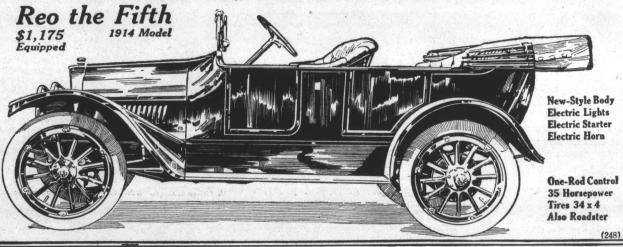
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DETROIT, APRIL 11, 1914.

CURRENT COMMENT.

Account.

done so, should prepare to keep some kind of a cost account in order to get ing every Michigan Farmer reader in cost of producing the different commodities grown upon his farm. Too of cost records throughout the season. Some of these may, and doubting the commodities which they sell upon the open market as a means of securing the necessary cash income, yet this is the most essential kind of knöwledge for the development of farm management which will produce productions. But this is the most essential kind of the commodities which they sell upon the open market as a means of securing the necessary cash income, yet this is the most essential kind of knöwledge for the development of farmer has to meet and solve, and a degree of personal initiative is desirated as in the commodities which they sell upon the season. Some of these may, and doubting the place on Tuesday of this week, are being generally watched because of the women voting there for the first time. In the state there are 258,000 women registered, and it is expected that 80 per cent of these will vote. The main issue is local option. Five tourists' hotels were destroyed by fire at St. Augustine, Fla., the oldest-city in the United States, last week. The loss is estimated at \$500,000. Many records and curios dating cost of producing the different com- publish examples of different forms employe farm management which will produce degree of personal initiative is desirweek. The loss is estimated at \$500, a maximum income from the farm able in this directon as well as in 000. Many records and curios dating with a minimum of labor and with every other phase of efficient farm due consideration to the maintenance management. May we then not hope that every Michigan Farmer reader the consumer has been made by of the fertility of the soil.

Obviously, the best time to begin the fiscal year of the farm is in the spring, at or about the close of the winter feeding season, since at this time the stock of forage and grain, and of live stock, if stock feeding is a factor in farm production, will be at its minimum point for the year, and the taking of an inventory will be greatly simplified, and an inventory of the farm and its equipment and supplies is an absolute essential should be the taking of an inventory accurate accounting of his gain or loss for the year.

But the farm accounting should not stop here, for it is even more necessary that the farmer should know where he made or lost his money during the year, than to simply have an accurate idea of this fact concurate estimates of such costs.

the cost of any farm product, owing and these were included in their allotto the complex factors to be taken ment. Doubtless this kind of books
into consideration. The cost of lamake interesting reading for the
bor, and especially of team work in youngsters, but their imaginations

Honting ago. Gen. Vina has also been
exonerated by a commission appoint
exonerated by Carranza, chief of the constitutionalists, of the murder of W. F.
Benton, the British subject and
rancher in Mexico.

the field, is a difficult cost to fix and may be safely trusted to supply an at the start must be a more or less adequate element of adventure witharbitrary estimate. In the matter of out such inspiration. the cost of team work, for instance, the interest on the cost of the team, library of well selected books, but the and equipment, its depreciation in selection of books adapted to the age value, the cost of feeding and care of the child as well as books of suitfor the year, etc., must be spread ov- able character is vital, and such a list er the number of days when actually will doubtless be useful to school offiemployed at productive labor in or cers in making proper selections. der to get at the actual cost of this factor in crop production. This year's cost records will help to solve such problems for next year, and in the Secretary Daniels, of the United meantime the estimate placed upon States Navy Department, has issued problems for next year, and in the meantime the estimate placed upon states Navy Department, has issued an order which absolutely prohibits alike, will at least have a relative value in arriving at accurate comparisons of profit or loss in the different production, hence the keeping of some simple form of cost accounts should not be delayed on accounts should not be delayed on accounts should not be delayed on accounts about the simple form of cost and the simple form of cost accounts should not be delayed on accounts about the simple form of cost and the simple form of cost are seen as a constant of the simple form of cost and the simple form o

kind commonly called "horse sense" in the vernacular of the day, will en- ate. in the vernacular of the day, will en-able any farmer to make approxident of the W. C. T. U. is reported mately accurate estimates of each item of cost which enters into the land, Me. production of a crop, and it will be a simple matter to make a daily record of same throughout the season. sons being killed and 35 injured. The Once any farmer has persevered in the keeping of such a record for even a single season he will be sure to With the opening of will be so obvious as to dispel any The Farm Cost the spring campaign doubt which might exist in his mind every farmer who as to the wisdom of, and profit in, has not previously such a course.

As a means to the end of interestmanagement. May we then not hope that every Michigan Farmer reader will inaugurate some kind of a cost accounting system this spring, to the end that he may be able to make a fairly accurate estimate of what each and every class of products produced on his farm costs him under his own farm conditions? If so, more will have been accomplished for the will have been accomplished for the center. future betterment of Michigan agriculture than could be done by the printing of volumes of technical arti-

which will form a basis for compari- into effective operation. This law pro- wood, of the National House of Repson next year and enable the owner vides that the State Superintendent resentatives, and Congressman Hobor operator of the farm to make an of Public Instruction with the co-op- son. eration of the State Librarian shall eration of the State Librarian shall King Gustav, of Sweden, is serious-prepare lists of books suitable for ly ill, and there is general anxiety for township and district libraries. These him throughout his own and other officers are now preparing such lists, countries. which will shortly be ready for dis-Atlantic coast caused a great loss of tribution, and will be furnished to life and much property damage to the each officer entrusted with the care fishing interests of Newfoundland, and custody of their respective libra. Seventy-seven persons of the sealer ries. Unquestionably, this law is one leave that 173 more men on the cerning which he could make a close which should prove beneficial in opguess in any event. The cost of a bushel of potatoes or wheat, or a hundred pounds of milk or pork, is of hundred pounds of milk or pork, is of for school libraries, have not always disaster was aggravated by the driftmore interest in relation to the prob-been wisely made. A prominent eduing ice floes.

During the week events in Mexico

then is the sater recently made the assertion that

During the week events in Mexico simple fact as to the net gain or loss he had visited schools where "The in the operation of the farm as a Life of Jesse James," and the most whole, hence some effort should be trashy of novels, were accorded a made to arrive at approximately ac-place on the shelves of the school library, the explanation offered being It is, of course, extremely difficult that the township library had been to arrive at exact conclusions as to divided up among the school districts

No school plant is ideal without a

HAPPENINGS OF THE WEEK.

National.

accounts should not be delayed on account of this difficulty.

The use of a little judgment of the ama canal, by a vote of 247 to 162. The measure is now before the Sen-

dangerously ill at her home in Port-

bridge had been weakened earlier in the day by the wreck of a freight

train.
All the big lines of railways east continue the work, since its value of the Mississippi are financially in-will be so obvious as to dispel any terested in an alleged system of wholesale robbery by railroad employes, said to have been revealed through investigations by federal officials. The loss through the robberies is claimed to amount to hundreds of thousands of dollars. Grand juries in several states will be called upon to at least an approximate idea of the this proposition, we have planned to return indictments against suspected

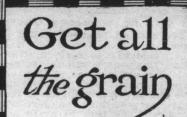
Fully 600 Michigan school teachers

cles relating to the growing of farm senators must be selected for the upand supplies is an absolute essential to the keeping of any adequate system of farm accounts. Hence, the first step in the direction of inaugurating a farm accounting system should be the taking of an inventory able importance which will shortly go able importance which will shortly go bama between Representative Under-

Foreign

ship Southern Cross have succumbed

During the week events in the have favored the rebels. Torreon has been captured, and the federal forces far beyond that city. Many of driven far beyond that city. Man the city's inhabitants, including Spaniards, are being deported to El Paso, Texas, by order of Gen. Villa. This action is similar to the one following the taking of Chihuahua four months ago. Gen. Villa has also been



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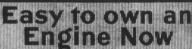
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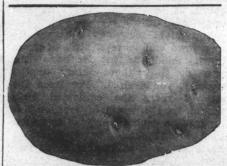
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The FARM BOY and GIRL SCIENTIFIC and MECHANICAL

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

Farmer's Tour Through the Holy

By PROF. ALFRED VIVIAN.

some time in his life, wished he might see with his own eyes the land sacred to all Christendom, the not much is left of the Jerusalem of dream becomes a reality?

and many of the spots most sacred surface of the ground. to the Mohammedan are found within

the plain of Sharon which with the towns of Lydda and Ramleh are replete with Biblical associations. The train passes close to Ekron mentioned in connection with the ark of God (1 Sam. v.-vi) and later runs along the valley of

eached. if Pontius Pilate stood here or six the sects having chapels here.

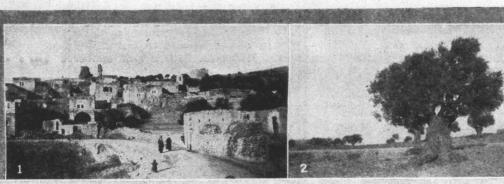
Lower Palestine has one line of feet from here when he said, "Behold A visit should be made t of about 2,600 feet. The first part of men of old looked upon these scenes; glory of Israel, stood. The Mosque age to pick a precarious iving from

its borders. It is off the main trave throws doubt on the exact location of little scriptural foundation are asso- trees which were probably alive at eled routes, and its comparative inac- many of the sacred spots of Jerusa- ciated with this building. At any time that memorable time. cessibility makes it less a tourist re- lem there is enough left to fill the of the day may be witnessed an in-

from the city. It commands a splendid view of the Holy City, which lies like a map in the foreground. To the Whatever one's belief, a visit eastward is seen the valley of the birthplace of the Savior? Who can the Bible, for it has been many times should be made to the Church of the Jordan and the mountains of Moab describe the sensations of the pil- destroyed and rebuilt. As the re- Holy Sepulchre, for this is accepted and Bilead. The Dead Sea seems grim when at last his long cherished buildings were made upon the debris by the Roman, Greek, Armenian, Sy- quite close at hand, owing to the of the old cities one must dig a hun- rian and Coptic churches as marking clearness of the atmosphere. It was Palestine is the "mother of relig- dred or more feet to find them, for the spots where Christ was crucified; on this mountain that Christ stood ions" and is revered not only by the recent excavations show that in some where he was buried in Joseph's when he lamented over Jerusalem Christian but by Jew and Moslem as cases the foundations of the old city tomb "wherein was never man yet and here he taught his disciples to well; for it is the home of the former walls are 130 feet below the present laid" (John xix 41); and where he pray. Below lies the Garden of Gethagain appeared to Mary after his res- semane, the scene of that night of While this condition of affairs urrection. Many other traditions with anguish, where today are found olive

sort than it might be if more easily visitor with reverence. What matter teresting service by one or more of same route which was followed by so many Biblical characters, and which A visit should be made to the marks the boundary between the railroad (from Jaffa to Jerusalem), the Man!" What matter if this altar Mosque of Omar, or "Dome of the tribes of Benjamin and Judah. The the entire length of which is 54 miles. or you hilltop marks the spot where Rock" as it is properly called, which road from Jerusalem to Jericho lies It is a narrow gauge line and the the cross stood upon which the Lord stands upon the summit of Mount through a barren, treeless land. Rocky journey takes a little over four hours, was crucified! Is it not enough to Moriah where tradition says Ornan limestone hills tower on either side, or an average of 12 miles per hour; know that the natural features of the had his threshing-floor; where Abra- appearing at a distance to be entirely but during that journey the train country remain practically unchang ham offered up Isaac; and where afdevoid of all vegetation, athough climbs from sea level to an altitude ed; that kings and prophets and holy terwards the Jewish Temple, the many flocks of sheep and goats man-

> the scant herbage. Jerusalem is 2,000 feet above and Jericho 800 feet below the sea level, and although only 15 miles apart in an air line, some 10 miles extra must be traveled in order to wind the way down the steep mountains. On the road lies the









Scenes in the Holy Land.

1. Village of Bethany, where Christ Raised Lazarus from the Dead. 2. Olive Tree said to be over One Thousand Years Old. 3. Resting Near the Mount of Temptation. 4. Plowing on the Plains of Rephaim—Near Bethlehem. 5. Donkey Train.

it reaches the highlands near Jerusa- quake's power when he expired lem. The sides of the ravine are pre-

Christ. Old as the city now seems, continue.

Sorek famous for its ancient viticul that the son of God trod the ground is a magnificent building with its col- little village of Bethany where the ture, and for its connection with the upon which we here walk; that some- ored tiles and marbles glistening in Savior raised Lazarus from the dead; story of Samson and Delilah. The where in the buried city underneath the sunlight, and its beautiful win- and the house of Mary and Martha as line now enters a rugged gorge called our feet He did bear His cross, and dows (the making of whose glass is well as the tomb of Lazarus, although Wady Ismain, which it climbs until these hills trembled by the earth- a lost art), but the mind refuses to of doubtful authenticity, are pointed

cipitous limestone hills, dotted here oping outside the walls, and most of wrote and the patriots sang of the gorge of the brook Cherith where and there with villages and showing the newer and better buildings are Temple's glory, and then thinks of Elijah was fed by the ravens—the unmistakable signs of found here, but the interest of the the fruit of disobedience, and how supposed spot being marked at the terracing which probably dates to the traveler is centered in the old walled glory vanished, until at last the pag- present time by a monastery. city with its crooked, dirty streets. In an hosts utterly destroyed the holy Jericho is located on the level plain "Jerusalem is builded as a city that many cases the streets run right place. Now no Jew may enter the of the Jordan River, the old town beis compact together." "As the moun-through buildings and in others are temple area, and just outside the wall ing some distance from the present tains are round about Jerusalem, so covered over for several blocks, they may be seen at the "Jew's Wail- filthy and uninteresting village. From the Lord is round about his people" Queer little shops abound, and every-ing Place" wailing out lamentations a distance all that can be seen is a (Psalms exxii. and exxv.). The where prevails the utmost indiffer over the destruction of the Temple, mound of earth, but recent excavamountains are indeed "round about ence to sanitation, which is one of the and praying for the restoration of the tions have uncovered the ruins of a Jerusalem" for the city is built on characteristics of the Oriental mind. kingdom. four hills, and as far as the eye can Beggars are in evidence on all hands, see in every direction rises mountain and the cripples and deformed, as things seen at Jerusalem would ex- to note that nearly all of the old vilafter mountain. The older part of well as the thousands of cases of ceed the limits of this letter, but we lages in Palestine are upon mounds the city, enclosed by irregular walls, blindness and sore eyes, fill one with can not pass on without mentioning such as this one. The old houses is probably much smaller than the pity mingled with disgust that such a the Mount of Olives. This mountain, were built of sun-dried mud bricks, city which existed in the time of state of affairs can be allowed to associated with so many acts in the and as they crumbled to pieces the

A new Jerusalem is rapidly devel- turns to the past when the psalmist foot permits of a view into the deep

dwell upon the present building and out to the visitor. A short detour on

To merely catalog the interesting Jericho of the Bible. It is interesting life of Christ, lies a short distance dirt was left in place. All the ma1846

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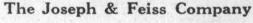
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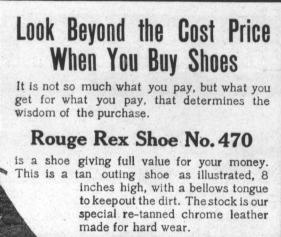
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"He calleth his own sheep by name and the sheep hear his voice. And when he putteth forth his own sheep, he goeth before them, and the sheep follow him, for they know his voice.

nure of animals and other refuse was. allowed to accumulate in the streets, and each time a house was built it was upon the top of the existing debris. The excavations at Jericho show that there are at least three towns. one below the other, on this site. Old Jericho consisted of mud huts just like those found in the village of today. Nothing ever changes with the Arab, and we saw many of them making bricks out of mud mixed with straw and dried in the sun just as was done 4,000 years ago. The debris accumulates in the village and the villager builds over it just as his ancestor did from time immemorial.

Near old Jericho is Elisha's Fountain, a tremendous spring whose waters make possible a small oasis in the otherwise desert land. This is the spring mentioned in Second Kings II whose bitter waters were sweetened at the command of Elisha. Near here is the Mount of Temptation which many authorities believe to be the mountain mentioned in the description of our Lord's Temptation (Matt.

About nine miles away lies the Dead Sea; in some ways the most remarkable body of water in the world. It is 1300 feet below the level of the Mediterranean Sea, being the most depressed sheet of water known. Into it empty the Jordan and one or two smaller streams. There is no outlet, the level of the water being maintained by the excessive-evaporation during the hot summer months. The water is of the brightest blue imaginable, but is so strongly impregnated with salts that nothing can live in it. The human body can not sink in it, and we saw men floating on their backs like corks with arms and feet high in the air. Standing upright in the water the body will float with about one-third above the surface. The water has a nauseous, bitter taste, and if allowed to dry on the skin leaves an irritating deposit of

Standing on an elevation near the Dead Sea and looking north, a ribbon of green is seen stretching away into the distance, made by the trees along the bank of the Jordan River. Every stage of this river is sacred with historical associations, and one can with reasonable certainty, locate approximately the places where many of the events occurred. Time and again the river is mentioned in the Bible, from the crossing of the Isrealites on dry ground (Joshua iii), to the baptism of our Lord himself by John the Baptist. (Matt. iii). Here every year at the Epiphany season about 10,000 members of the Greek church baptize themselves in the Jordan, the river having been previously blessed by the priest. They dress in their shrouds for the occasion, and many who can not come themselves send their shrouds by others to have them dipped in the sacred water. The banks of the river are rich in varied foliage; oleanders stand in thick masses beautiful with their rose colored blossoms. We shall never forget that night at Jericho, with the moon shining over the Moabite hills, illuminating the valley of the Jordan with her silvery rays, as we tried in imagination to picture the many events which had taken place in this historical valley.

Even so short a visit as this one has made plain some things in the Bible not clearly comprehended before. Toward evening we looked up unto the hills and saw the shepherds walking with stately step along the hillside the sheep following behind. No dog was there to worry them, nor did any of the sheep seem to stray away. The picture served as a reminder of the parable of Jesus when he said:



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And a stranger will they not follow, but will flee from him, for they know not the voice of strangers." (John x).

Water is scarce in this country and the places where the shepherd can water his flock are few. It often happens that several flocks meet at one of these fountains and become mixed while the shepherds visit or eat their humble repast together. Upon departure the shepherds stand apart, and each gives his peculiar call, when the sheep separate and cluster around their respective masters. Thus a bit of imagery which would be lost on the occidental mind is made clear by a very little knowledge of oriental custom.

At the inn of the Good Samaritan, while waiting for the horses to rest after the long pull up the mountain, two men walked in and at the same time heard a peculiar cry almost like that of a young baby. The men reached down in the bosom of their blouses and each drew out three young lambs, evidently only a few hours old, which again recalled a passage of Scripture:

"He shall feed his flock like a shepherd; he shall gather the lambs with his arm, and carry them in his bosom." (Isiah xi ii.).

The road from Jerusalem to Bethlehem passes through the fertile plain of Rephaim where David had three battles with the Philistines. Further along are seen the fields of Boaz in which gleaned Ruth the Moabitess, and it is easy to imagine that the fields nearby were those in which the shepherds kept watch over their flocks on that memorable night when the angel appeared to them to announce the birth of Christ the Lord (Luke ii.). Another sweetly pathetic story is associated with the tomb of Rachel near the road, which, while it may not mark the exact spot of Rachel's grave, must be very near the place. (Genesis xxxv.).

Bethlehem is frequently mentioned in the Scriptures, but its crowning glory is the wondrous event recorded in the second chapters of Matthew and Luke, which makes Bethlehem a household word wherever Christianity is professed, and causes the thoughts of millions to be turned to this Judean village as year by year the Christmas tide comes round.

The spot first sought by the visitor is the Church of the Nativity which is located on the reputed site of the village inn of the time of Christ. Beneath the church is the rock-hewn stable so common in those days, and in which the Savior was born. Perhaps the churches are not justified in locating the exact spot where the manger stood, but there is good reason to believe that it was somewhere in this stable. A silver star marks the place where the manger is supposed to have been. Outside the church the old market place remains as it was two thousand years ago.

EASTER.

BY L. M. THORNTON.

Oh, merry bells of Easter tide O'er barren boughs you ring, Where northern skies frown angry wise

And your wintry breezes sing. But dear your tidings to my heart And sorrows pass away, Such news you bring, of Christ the King,

This Resurrection Day. Oh, merry bells of Easter tide
O'er southern field and dell,
Your strains are heard while every
bird

The chorus helps to swell. But southern hearts must know some griefs

For loved ones passed away You quench their tears, you calm

You quench their tears, you caim their fears,
This Resurrection Day.
Oh, merry bells of Easter tide
You sound on every wind,
Your story blest to every breast
To comfort all mankind.
Since He who opened wide the tomb,
Walked forth Divine, to say,
Beyond the Pall, Life waits for all
This Resurrection Day.

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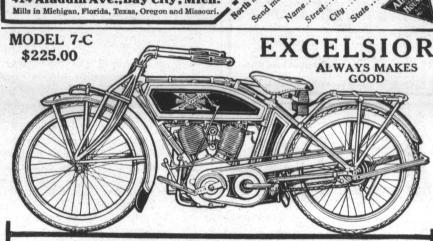
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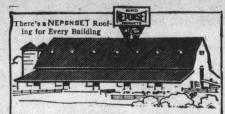
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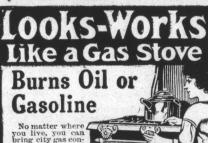
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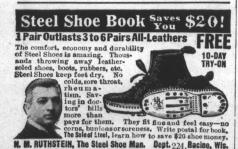
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Woman and Her Needs.

At Home and Elsewhere.

Success.

EXT after the question, "How can I be popular?" folks is, "How can I become a success?" In fact, not only young folks, but old folks as well, are agitated by can be over the fact. the question and the great god sucbined.

of sureness and confidence which en- takes its troubles and pleasures toables us to go to still further success- gether and if the pleasures are simes, while the unsuccessful person has ple they leave no sting behind. a feeling of hopelessness which makes it well-nigh impossible for him to first friend says she is, and my sec-'make good.'

a woman who married successfully. I peaceful home and then compare it say this because she told me she did. With the spirit of tension and irrita-And the reason she says this is be- bility which rules in the other, I money. She lives in a large house given to the woman without money. with a woman twice a week for scrub- success. I agree with Edgar Guest: bing and washing and a man for the "If I have kept my faith in God, yard and furnace. She has so many If I have cheerful been and kind, If I have been content to plod And seldom grieved and never enough in the year for her to wear whined, them all. Her table is well set, when But bravely faced each morning task, she can keep a good cook to prepare No more of me the Lord will ask." she can keep a good cook to prepare the food, she travels whenever she feels like it, has an electric car, entertains lavishly, is entertained as lavishly and is constantly seeking pleasure.

Is she happy? Well-she is nervous. She ought to be happy, having nothing to do and no temporal worries. But unless she is constantly on the go, or being amused at home, well, things aren't just smooth. She must be constantly excited in order not to give way to nerves. If she were a child I'd say temper, but being a successfully married woman it can't be that. She must be constantly stimulated. She has the attitude of a woman who is afraid she is going to miss something if she isn't ready to jump at a moments notice and start out to some club or reception: She has no time for her family. Although she has three children they see less of her than strangers. The nurse looks after them and as a result they are coming up to be useless members of society. The oldest, a girl of ten, can not dress alone, and the six-year-old boy can not button his own shoes, though children younger than he are helping to earn their own living by peddlings papers. In a word, they are not being taught selfreliance, which is the most valuable lesson a child can learn. The motto of the entire family is, "Let someone else do it." While the mother is away serving on child-labor committees her own children are at home growing up into parasites.

be the one to be nervous, poor thing, profit during a season. with a problem like that to solve. But The parcel post certainly offers

an advantage entirely lacking in the other home. The girl of ten not only dresses herself, but the baby as well. And she can wash dishes and tidy a room and bake a plain cake and broil can I be popular?" the question a chop as well as her mother. When which agitates most young mother is in bed with a headache. daughter can get a good plain meal for father, and she is as proud as

The motto of this home is "Everycess numbers more worshippers than body pull together," and each memall the other gods and goddesses com- ber lives up to it. The housemother is not always informed on the very We all want to be successful. And latest news of the day, but there is why not? Success gives us a feeling no friction, no nerves. The family

Which woman is the success? My ond friend takes it for granted that It is perfectly legitimate to wish to she could never hope to be rated with be a success. But first stop to decide the successes. But personally, when what you consider a success. I know I consider her happy, well ordered. cause she married a man with lots of think the term success ought to be and keeps two servants all the time, It all depends on what you mean by

THE PARCEL POST FOR FARM-ERS' WIVES.

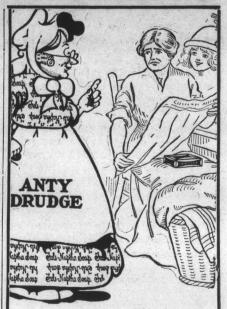
BY CLAUDIA BETTS.

The claim is made that, although the farmers were the most anxious and insistent for the parcel post law. they are using it much less than some other classes of people. Probably one reason is that we haven't yet become accustomed to its many benefits, and another is that the rates have been so high. But as the rates are reduced and people get accustomed to buying by parcel post, it will open an avenue by which the farmer's wife and daughter can add very materially to their income.

I read not long ago of a man who advertised in one of the city dailies to ship fresh fruit and vegetables direct to the consumer. He used an ordinary market basket and shipped twice a week to each customer whatever fruit or vegetable was in season. He could not allow customers to specify their preferences as it would have been impossible to fill orders that way, but he always aimed to give them good value for their

That is important in building up a parcel post trade. We must furnish better goods at a little less than the price charged by city dealers in order to gain and keep customers. A market for butter, honey, hickory nuts, etc., could readily be established and if customers are satisfied they will I have another friend, who did not tell their friends, and so a profitable marry successfully, because her hus- business might be established. If one band only gets \$12 a week. By-the- is conveniently situated near a large way, the first woman's household city, one might find a good market costs her that much a day to keep up. for cut flowers. Probably the best va-This friend has three children, too, rieties to ship would be asters, sweet which means five to feed, clothe and peas, dahlias and gladioli. If shipped shelter on \$12 a week. She ought to regularly they might yield a good

as a matter of fact, she is the calm- great possibilities and we ought to est, happiest person imaginable. Her take advantage of it. Many women children have no advantages, my first do much of their buying of dress friend says, for there is no money. goods, millinery, furs, etc., from the But they never seem to miss them. mail order houses of Chicago, New They can at least go to public school, York and other large cities, and if a and at home there is always harmony, reliable firm is patronized it is usu-



Mrs. Shiftless-"I'm ashamed to have you catch me reading when I ought to be washing my blankets. But I sent Mary to the village for some soap that wouldn't shrink wool, and the storekeeper wrapped it up in this newspaper that has such an interesting story in it. I just couldn't resist a look at it for a minute."

Anty Drudge-"Well the storekeeper knew his business. He sent you Fels-Naptha Soap. Now, if you'll spare me a few minutes I'll show you how to use it in lukewarm water. You can get through in no time, and then you can finish your story with an easy mind. Fels-Naptha is grand for all kinds of woolens, it makes them as soft and downy as when new."

Fels-Naptha will get your clothes on the line in a couple of hours after breakfast, and you can start ironing Monday afternoon, feeling rested and refreshed. That will make your Tuesday's work easier, too.

Fels-Naptha Soap works best in lukewarm water, and little rubbing is necessary. Your blankets will be soft and white.

Buy Fels-Naptha by the box or carton. The easy directions on be the Red and Green Wrapper should followed.

Fels & Co., Philadelphia,



AND 11 7115 W.

American **Steel Fence Posts**

Cheaper Than Wood and More Durable

Quality—High-class steel, heavily zinc coated inside and ourside. Strength-Strong enough to hold up any wire fence and furnish all necessary resistance.

Adaptability—Adapted to all conditions and will prove absolutely satisfactory wherever a good wire fence is desired.

Service—Give much more and much better service than can be expected of wood posts, and will not burn, rot or decay.

Durability—Have been in service since 1898, in every section of the United States, and the oldest posts are today as good as when set.

Adapted to All Wire Fences. Increase the life of a fence. Put a wire fence on permanent American Steel Posts and preserve the fence indefinitely; put it on wooden posts and it is like building a brick house on a wooden foundation.

For Sale By All Dealers.

We also make the celebrated AMERICAN FENCE, ELLWOOD FENCE, ROYAL FENCE, NATIONAL FENCE and the ANTHONY FENCE. These fences are galvanized by the wonderful new process we have developed and employed exclusively by us, effecting a heavier coat of zinc firmly united to the steel, affording absolute and permanent protection against destructive elements. The greatest Galvanizing discovery of the age. Dealers Everywhere.

Frank Baackes, Vice-Pres. & Gen'l Sales Agent American Steel & Wire Co. Chicago New York Cleveland Pittsburgh Denver

ally satisfactory. In many instances the article can be bought for about two-thirds the price paid the local dealer.

Of course, many merchants object strongly to this method, but if the profit is in our pocket instead of the merchant's, why not?

HOME QUERIES.

Household Editor:—What is the difference between the "English" and the "Russian" way of serving a dinner?—Curious.

In the English way, the food is served from the table, the hostess serving soup, dessert and salad, while the host serves the meat course. In Russian style everything is served from the side by servants, the master and mistress being practically guests.

Household Editor:—How do you blanch almonds?—M. B.

Cover with boiling water and let stand over the fire until the skin readily slips off between the fingers, five or ten minutes. Then drain off the hot water, cover with cold water and slip off the skins under the water. Dry in a warm oven or spread on a platter and dry on the table.

Household Editor:—Will you please tell me the correct furniture for a large living-room? Would a large mirror be good taste?—A. M.

A large library, or reading table, to be placed in the center of the room under a ceiling light, book cases, large easy chairs, one or two plain, straight chairs and a good leather couch are all appropriate for the living room. The furniture should all be plain, simple and durable, the best you can afford, either fumed oak, mission, golden oak, or any good substantial wood which you like and can afford. Reserve mahogany and white woods for the parlor, it you have one. The mirror would be all right if it has a plain, quiet frame of wood. I would not use one with a gilt frame in a living-room. The idea is to have everything for use, and reserve frills for show rooms.

In reply to M. E. S., I am sending my method for making and using everlasting yeast. To start it take the water that potatoes have been boiled in, put in a quart fruit jar, within two inches of the top, add one-half cup of white sugar and one cake of dry yeast, let stand 24 hours, stirring occasionally, when it is ready to use. When wanted, take half for a baking, then put two tablespoons of sugar in the jar and more potato water but no salt. This is all there is to it. Heat and cold do not seem to hurt it.-M. E. B.

SHORT CUTS TO HOUSEKEEPING.

If new earthenware is boiled before using, it will last longer. Put it in a kettle, well covered with cold water, and heat until boiling, then let the ware cool with the water. This always makes lantern globes almost proof against breaking.-Mrs. O. W.

A serviceable spread for a table much in use where there are children, can be made by braiding or crocheting pretty carpet rags. It may be made in any shape desired .- Mrs. W. B. S.

Instead of using a wooden darner get a shoetree and put the stocking on it. Then you can see exactly where the darn ought to go. Another good idea is to paint half of your darning ball white, and use it under black-footed stockings .- F. T. M.

EASTER DAY.

Because my Lord arose on Easter I breathe upon the breeze a rounde-

lay.
Because He broke the fetters of the tomb My soul casts off its gyves of fear

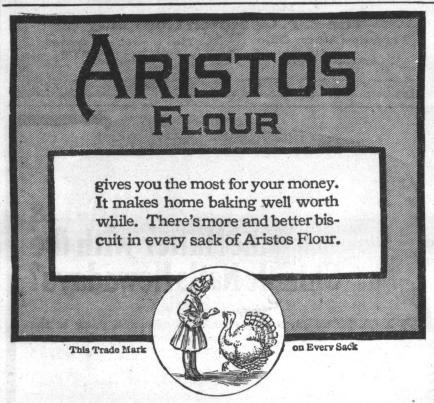
and gloom.

Because He reigns, in Heaven enthroned, I know,
His is the way my faltering feet should go.

SINKS SNOWY WHITE Keeps

"OLD DUTCH" cleans the sink "as quick as a wink." Quickly banishes grease, dirt and stains from porcelain, enamel and metal parts. Equally effective for scrubbing wooden sink boards.





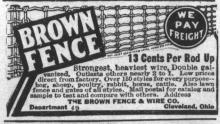


When writing to advertisers please mention the Michigan Farmer.











Michigan White Cedar FENCE POSTS

GEORGE M. CHANDLER, Onaway, Mich.

FETY FI

Quality and Lower Cost Mileage for Goodrich Tire Users

Goodrich Unit Molding is the original "Safety First" idea in tire-making. . . .

The body of the tire, the side walls, the fabrics, the rubber, the bead and the Safety Tread are so well bal-anced and of such uniform high quality that this, coupled with Goodrich efficient workmanship, makes it possible to mold Goodrich Tires as a unit,

The fine, strong fabric and high-grade rubber are literally interlocked by Goodrich Unit Molding. This is one reason why the treads do not sep-arate and why "tire troubles" are prac-tically unknown to Goodrich users. . . .

* * *

The thick, tough rubber bars and crosstie of the safety tread as shown here, make a "Safety First" roadway for the car. They clean and dry the path and grip it. Because the Safety Tread design is built as a unit, it rides easier than any other non-skid tire, and in fact just as smoothly as a smooth tread.

Just the unit-group of bars and crosstie which brace and balance the strain on the tire so that the Safety ice and mileage.

The Accepted Standard

Goodrich Safety Tires

Best in the Long Run



Tread runs as a smooth tread does and gives more actual serv-

Pay no more than the following prices for the accepted standard automobile tire:

Size	Smooth Tread Prices	Safety Tread Prices	Grey Inner Tube Prices	Size	Smooth Tread Prices	Safety Tread Prices	Grey Inner Tube Prices
30x3	\$11.70	\$12.65	\$2.80	34×41/6	\$33.00	\$35.00	\$6.15
30x31/2	15.75	17.00	3.50	35x41/6	34.00	36.05	6.30
32 x 3 1/2	16.75	18.10	3.70	36 x 4 1/2	35.00	37.10	6.45
33×4	23.55	25.25	4.75	37×5	41.95	44.45	7.70
34×4	24.35	26.05	4.90	38x5½	54.00	57.30	8.35

Free—Send for booklet, "Rules of the Road" and other valuable information.

Address Service Department 25

The B. F. Goodrich Company

Factories: Akron, Ohio Branches in All Principal Cities



There is nothing in Goodrich Advertising that isn't in Goodrich Goods



N OLD TIMES, nobody ever heard of such a thing as the shingles falling off a building because the nails had rusted through. Now half of them are rusted off before they're ten years old.

Fifty years ago nails were made from pure, old-fashioned iron, which rusted very slowly and evenly. Nearly all modern nails are made from steel with a high content of impurities.



are made from an iron even purer than that of our grandfathers' they will have IMMENSELY LONG SERVICE LIFE.

Guard against the substitution of ordinary steel by insisting on the Triangle Brand or on complete chemical analysis.

For full information about AMERICAN INGOT IRON Culverts Flumes, Roofing, Siding, Corn Cribs, Silos, Tanks, Portable Houses and Fencing, write to

Armco Culvert Publicity Bureau

571 Walnut St.

Cincinnati, Ohio



Farm Commerce.

Advertising and the Farmers' Markets.

worth \$225 is discouraging, parfind many buyers. ticularly so when a few days This, then, leads later it is learned that two men from of how shall we go about to enlarge different communities were looking the circle of those interested in marfor just such an animal as was sold keting certain products of the farm? and would have gladly paid the high- How can a farmer interest a large er price for it.

Multiply Your Chances.

It has been said many times that competition is the life of trade. While students do not always agree that competition is best for business under all circumstances, it is certain that a horse will sell for a better it than where only one is bidding and he not being anxious to buy. Here competition is the life of trade from the standpoint of the seller; and class who advertise in the press. without exception the person who would dispose of a product is better satisfied with the price he receives on a competitive market than on one where there is no competition.

Then, too, a buyer may desire a product of a certain character; he may wish a sire that will strengthen the weak qualities in his dairy cows, or a strain of oats peculiarly adapted to his soil and climate. Now if he is a good judge and has a clear idea of what he is after, there is far more likelihood of his securing the coveted sire, or oats, if he has fifty sires to select from or twenty kinds of oats to choose out of, than where he had but one or two of each offered.

From both the standpoint of the seller and the buyer it seems important, therefore, that many be inform- "Please do not run my bean advered of the desire to sell and to buy. The seller wishes to attract many buyers and the buyer smiles when he sees numerous offerings of the kind he is after. All parties are more apt to be better satisfied when dealing few of hundreds from satisfied farmis done under such circumstances.

There is no Paradox.

who would find the animal or article tising is done. offered to meet his or their particular

The supply of goods is not enlarged advertising campaign. nor the general demand increased al-

O get \$165 for a horse that is find many sellers and the seller to

This, then, leads us to the question community in the things he would sell or buy?

Experience is undoubtedly the best guide in a matter of this kind, and while we find that some business is gotten by those who sell to their neighbors, and perhaps a little more by those who show products at the price when there are five men after fairs, the great majority of the farmers who succeed in selling their surplus stock, or other products, or who get the things they are after, is the

There Are Illustrations.

Speaking generally, it must be noted that farmers have neglected to use the local papers and the farm journal for doing the very thing that is so important in marketing, i. e., interesting a large community in the things he would buy or sell. A few however, have availed themselves of these channels of spreading information. A Michigan breeder of Shorthorn cattle wrote us in February as follows: "I am all sold out of bulls. Have sold 17 this winter. Change my advertisement to Shorthorn cattle." Mr. Barnum tells in a letter that this journal sells more poultry than all other advertising put together. A northern Michigan bean grower who had seed free from anthracnose, etc., advised his publisher in these words: tisement in March as ordered. Am flooded with orders. More business than I could possibly handle."

What they Show.

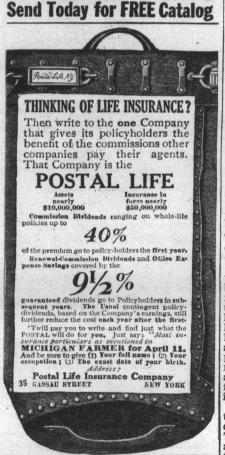
Now these testimonials are but a ers who have tried the advertising method of reaching a large commu-Lest the reader think that here is a nity of persons, and they unmistakparadox, that is, that in fulfilling one ably show that such a method has a condition it would be an impossibility place in the farmer's program, as well to fulfill the other, it is well to further as in that of the merchant. Of course, explain: Where a farmer has, for there are many articles of a staple instance, a horse for sale he would nature where advertising would seem reasonably expect to receive more to be of no account, the same with nearly what the horse is worth if the farmer as with the merchant, but there were a hundred men bidding on the other hand, there is a wide for the animal than if there were five, field where much better returns could since there is more likely to be some be had in selling, and more satisfacperson or persons among the hundred tion in buying, if appropriate adver-

Take potatoes: Off hand, it would needs. On the other hand, if a buyer be said that it is not worth while to has a hundred horses to pick from advertise potatoes, and it no doubt he is more certain to find what he would be useless in most instances; wants. Now if there are a hundred but experiments have been tried in men who want horses and there are the sale of high quality potatoes a hundred horses for sale, a far great- grown in upper Michigan, and it has er number of the men will find the been proven that by advertising sales animals they want and the horses will can be readily made at prices considsell at better figures, if all the men erably advanced over those offered in have a chance at the whole number the usual channels of trade. Even of horses than if each man knows of now a campaign is on to induce peobut one or two of the horses offered. ple to eat more apples, which should Now this illustrates the advantage help the sale of this fruit. Such adof advertising. By giving the public vertising has aided greatly in the disnotice of what you want to buy or position of citrus fruits and western what you have to sell, you enlarge apples, and no one would care to the number of persons who offer guess what products could not be sold goods, or the number who would pur- at better advantage if the selling chase of you, as the case may be. were to be preceded by a judicious

Advantage in Community Work.

ways, but there is a better chance of Inasmuch as it frequently happens getting in touch with the man who that certain districts, or belts, grow wants the very thing you have, worse certain staples to greater perfection than any other man, or of finding the than do other less happily situated loperson who has the identical thing calities, community advertising beyou would buy. And here is the rea- comes possible and profitable. The son that there is no inconsistency, or illustration given above of the citrus





money. All Fencing fully guaranteed.

Write for Our 1914 Catalog
containing thousands of bargains in farm implements,
farm Machinery, Sowing Machines, Wind Mills Harness,
Buggles, Wagons, Furnaces, Stoves, Hardware and
Central Double Discing Harrows—tt's FREE.

CENTRAL ROOFING & SUPPLY CO.

1501-7 S. Sangmon St. Dept. 304, Chicago, Illinois



gests how this is done. In advertising staple products of this kind it is probable that community advertising, such as co-operative associations, and similar organizations may do, will attain a considerable magnitude. Michigan potato growers have a chance to do profitable publicity work, also her apple men and general fruit growers because of the excellence of her potato and fruit crops. We shall expect in future years to see much advertising of this character, for in the past year or two the amount of it done has attracted no little attention.

So it seems that the farmer as he enters more generally into the field of business and fits some of the rules and methods of the business world to agriculture, will appropriate the advertising idea, and when this is common, the man endowed with efficient intellectual powers, either naturally or by reason of special training, will be much better equipped to conduct the commercial end of farming than will the untrained agriculturist.

Crop and Market Notes.

New York.

Genesee Co.—Winter grains and seeding are still nicely covered. Potatoes are offered more freely, and as a result the price has dropped to 57c. A few beans are also marketed. Hens are beginning to lay; eggs 24c. The farmers in this vicinity have contracted a large servege of page 1 jun bears. farmers in this vicinity have contracted a large acreage of peas, lima beans and tomatoes for the cannery. Butter, dairy 27c; creamery 30c; pork, dressed 12c; live 9c; chickens 15@ 17c; lambs, dressed 13½c; wheat \$1; oats 45c; beans \$1.80@1.90; cabbage \$20 per ton; loose hay \$11@13 per

Pennsylvania.

Crawford Co.—Winter crops are looking fine, wheat never looked better, also new seeding looks well. The farmers are busy in their sugar camps; the sap is running well. Roads are not in bad condition for this time of the year. Prices: Eggs 20c; butter 30c; potatoes 7c per bu; apples \$1 per bu; parsnips 60c per bu; milk \$1.90 per cwt; chickens 10c.

Ohio.

Highland Co.—We have had a cold, rough March, which has affected the grass and wheat to some extent, on account of the hard freezing on the bare ground, and making spring work late. Farmers have begun plowing. There are prospects of a large acreage of corn. Hens are beginning to lay; eggs 15c; butter 25c; corn 70@75c; oats 45@50c; hogs \$8.75; cattle \$7@8; potatoes \$1.20; hay \$12 @15; hens 12@14c.

Holmes Co.—The cold spell of six weeks duration has been succeeded by spring weather. Wheat has suf-

Holmes Co.—The cold spell of six weeks duration has been succeeded by spring weather. Wheat has suffered some by freezing, but cannot tell how much yet. A greater part of last year's wheat crop has been marketed at 93c. About 60 per cent of hay crop is still in farmers' hands, and the price is \$11. Cloverseed is plentiful, selling at \$8. Horses are not in much demand. Cows scarce and high. There is plenty of rough feed for stock. Cattle and hogs are in good demand.

Sandusky Co.—Wheat is showing the effects of the severe winter. Meadows seem to be in good shape. There will be a large acreage of oats and corn. There is still some frost in the ground, which is delaying spring work. Farmers are busy trimming and spraying and cleaning up. Roads are good, being dry on top. There is not much being sold except eggs and dairy products. Eggs are plentiful at 16c; butter 24c. Hay is slow at \$10@ 12; wheat 93c; oats 38c.

Ashtabula Co.—Weather is mild and warm now, but the roads are muddy and in bad condition. Winter wheat is looking good. Live stock has wintered in good condition. Sugar making is about over; it was a light season, and syrup sells for 90c per gal-

Is looking good. Live stock has wintered in good condition. Sugar making is about over; it was a light season, and syrup sells for 90c per gallon. There are numerous sales, and stock sells high. Hens are laying well; eggs 18c; cloverseed, red \$9; alsike \$12; timothy \$3.50; butter 23@25c; dressed pork 11c; chickens, live 14c; wheat 90c; oats 40@45c; buckwheat \$1.50 per cwt; potatoes 60@80c; loose hay \$10; calves \$10@11; sheep \$6@6.25; cattle \$8.75@9.

Columbiana Co.—The weather is somewhat milder the past few days and has the appearance of spring. Roads are in good shape, being nearly dry in some places. Farmers have been doing considerable hauling of manure, lumber, tile, etc. Wheat and meadows seem to be in good condi(Continued on page 434).

You Smoke a "Better" Tobacco —Why Not Smoke The Best?

THE tobacco you now smoke you consider "better tobacco than you ever smoked before." Naturally, you kept trying until you found a "better" one.

But it stands to reason that since there is a difference in tobaccos, you may be missing still greater pleasure in a still better smoke—in the BEST smoke, in fact.

Tuxedo is the best smoke because no better tobacco leaf grows.

The Perfect Tobacco for Pipe and Cigarette

Tuxedo is treated by the famous original "Tuxedo Process" for removing the sting and bite of the natural vegetable oils.

Tuxedo was born in 1904. Its grown. first imitator appeared two years later. Since then a host of imitations have sprung up.

No other tobacco can give the unique pleasure of Tuxedo because no other maker has yet been able to equal the Tuxedo quality.

YOU CAN BUY TUXEDO EVERYWHERE

Convenient pouch inner-lined with moisture-proof paper

Famous green tin, with gold lettering, curved to fit pocket 10c

FREE Send us 2 cents in stamps for postage and we will mail you a souvenir tin of TUXEDO tobacco to any THE AMERICAN TOBACCO COMPANY

GEORGE E. PHILLIPS Mayor of Covington, Ky.

"A good pipe, and Tuxedo to fill it, and I'm satisfied. The tobacco in the little green tin has no rival as far as I am concerned." point in the United States. Address

THE AMERICAN TOBACCO COMPANY New York



WALLACE IRWIN writer and lyricist "Tuxedo is always welcome. A pleasant smoke, a mental bracer — the ideal tobacco."

Millinge of



HENRY HUTT famous artist "A pipeful of Tuxedo puts new life into me. The mildest and purest tobacco

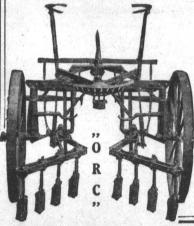


Grotersheeper

Bigger Crops of Better Quality-

that's the final object of ALL cultivation. As you cultivate, so shall you reap. Many times, persistent cultivation has made two ears grow where one grew before, in spite of poor soil and contrary weather. You can quickly and thoroughly cultivate any crop in any kind of soil by using

DAYTON PIVOT CULTIVATORS



Made for the man who values perfection in farm implements. Furnished with 32 inch and 38 inch wheels which are just right for quick movement and dodging. Made in 6 sizes, with a big variety of shovels from which to take your choice. A special hoeing attachment can be used with the spring tooth style. Of perfect balance and easiest draft, though made as strong and durable as we know how with thirty years experience back of us.

FREE Catalog Shows

every important detail of Dayton Pivot Axle Cultivators. It also fully describes and illustrates the famous new "Little Giant" Balance Frame and Dayton Two-Row Cultivators. You owe it to yourself to investigate the complete line of "O.R. C." farm machinery. Write for this instructive catalog To-Day Sure!

The Ohio Rake Co., Box 20, Dayton, Ohio

POTASH by Parcel Post

We will sell you 20 pounds Muriate of Potash or 20 pounds Sulfate of Potash for \$1.00.

DELIVERED FREE by Parcel Post-anywhere east of the Mississippi and north of Tennessee and North Carolina.

Send cash, stamps or money order to our nearest office

GERMAN KALI WORKS, Inc., 42 Broadway, NEW YORK McCormick Block, CHICAGO, ILL. Continental Bldg., BALTIMORE, MD.



am well pleased with my Buckeye Machine—it is all that you claim. I have done an average of \$400 worth of work I have dug 1162 rods in 6½ days, 247 rods in one day and 66 rods in two hours. It cost me 2% cents a rod and I received eighteen cents.

ALFRED FRAVER Fostoria, O.

Buckeye TRACTION DITCHER

A perfect trench at one cut

has put hundreds of men into independent and profitable businesses. In every farming neighborhood there is a splendid opportunity for contract ditching. Even at 100 to 150 rods aday, the profit is from \$15 to \$18 daily and most men are busy nine or ten months a year.

Send for the Buckeye Book of Facts F. and see what Facts F. and see what other men are doing and what you can do. Write today.

The Buckeye Traction Ditcher Company

Findlay, Ohio

Builders also of Buckeye Open Ditchers and Buckeye Gasoline Engines for farm use.

FARMS AND FARM LANDS FOR SALE OR EXCHANGE

MR. Farmer—Are you going to buy a farm? Let me tell you all about farms near Detroit. R. E. Hall. "The Farm Man" 504 Free Press Bldg., Detroit, Mich.

HOMESTEADERS—I know of a fertile valley in the west. No irrigation. You can homestead 320, Address Jas. Edmonson, Hillsdale, Mich.

Listen—Improved farms, close Detroit & Pontiac, half million people. Best markets, 240 bu. potatoes per acre last year, and 100 bu. corn, \$30 to \$75 per acre. Easy terms. Write E. F. Winemiller, Rt. 8, Pontiac, Mich.

MICHIGAN FARMS—The second best State in the sizes. We can suit you on prices. Send for free list. D. & F. MACKERCHER, 206 Clark Bldg., Grand Rapids, Mich

FOR SALE—80 acres of good farm land, good from city. Share in good cheese factory. Will sell a \$75 per acre. John Bachler, Marine City, Michigan.

166 Acre Tile Drained Farm—On paved road leading plow. Clay loam. Flowing well, house, barns, etc. Near plow. Clay loam. Flowing well, house, barns, etc. Near Dtroit-Toledo Electric Line. Will divide to suit. James A. Hurst, 1020 Hammond Bldg., Detroit, Mich.

CASH FOR YOUR FARM I bring buyers and sellers together, Write me if you want to buy, sell or trade, Established 1881. Frank P. Oleveland, 388 Adams Express Building., Chicago.

FARMS, GOOD, CHEAP, PROFITABLE.
UNUSUAL OPPORTUNITIES NOW.
State Board of Agriculture. Dover. Delaware.

MICHIGAN FARMING LANDS

Near Saginaw and Bay City, in Gladwin and Midland Counties. Low prices: Easy terms: Cleartitle. Write for maps and particulars. STAFFELD BROTHERS, 15 Merrill Building, Saginaw, (W. S.), Michigan.

McClure-Stevens Land Co.

Successors to A. J. Stevens & Co. Established 1883 Farm, Fruit and Stock Lands. We own 18,000 acre-of choice unimproved land in Gladwin and Clare counties. Sold on easy payments. Interest 6 percent. Write for information. Gladwin, Michigan.

Investigate This: Excellent land in Minnesota Washington and Oregon-adjacent to the Northern Pacific Railway-the best developed sections of the Northwest: obtainable at low prices. State land on long payments deeded land on crop payment plan; good climate, good schools-no isolated pioneering. Send for literature saying what state most interests you, L. J. BRICKER, Gen. Immig. Agt., 380 Northern Pacific Ry., St. Paul, Minn.

VIRGINIA FARMS

You can become happy and independent farming in Virginia. You can grow profitably alfalfa and all gresses, corn, fruits, grains, beef and daily gresses, corn, fruits, grains, beef and dairy section in the world. Farms 315 per acre and up. We welcome you. Write now for booklets, maps and other Ittarature.

G. W. KOINER, State Commissioner of Agr., Richmond, Va

Disabled Owner Must Sell

Disabled Owner Must Sell 384 Acres Equipped, \$3500

Disabled owner wants to close out before planting; remarkable opportunity for a hustler; broad fertile fields; immense crops; pasture for 30 to 45 head; valuable wood and timber; choice fruit; close to lake on state road to market town; 7-room house, 3 big barns, other buildings; 5 cows, 2 pigs, hens, hay in barn, tools and furniture included if taken now and only \$1500 cash needed; full details and location, page 1. "Strout's Spring List of Tarm Bargains." just out, copy free. E. A. STROUT FARM AGENOY, Station 101, Union Bank Bldg., Pittsburg, Pa.

Markets.

GRAINS AND SEEDS.

April 7, 1914.

Wheat.—The excellent condition of the new crop is overshadowing other news items and the price of wheat shows a tendency of the conditions o shows a tendency to drop. A year ago the price was \$1.12 per bu. Quotations for the past week are:

No. 2 No. 1

White. 97 1/4 97 1/4 97 1/2 983/4 983/4 881/4 2 red 93

Corn .- In spite of shipments from Argentine and a weakening of the wheat trade, the corn deal showed strength and advanced a cent Monday. One year ago the price for No. 3 corn was 54½c per bushel. Quotations for the past week are:

No. 2

No. 2

No. 2

Mixed. Yellow. 68 1/2 68 1/2
 Wednesday
 66½

 Thursday
 66½

 Friday
 66½

 Saturday
 66½
 68 1/2 69 1/2 Chicago, (April 6).—No. 3 co 67½@69c; May 685%c; July 685%c. corn

Oats .- The delay of spring work by the continued cool weather has been a bullish factor in the oat deal and on Monday the price held steady in spite of the easier wheat trade. One year ago the price for standard oats was 37½c per bushel. Quotations for the past weak are: the past week are:

	Standard.	White
Wednesday	42	41 1/
Thursday	. 42	411/
Friday	. 42	411/
Saturday		411/
Monday	. 42	411/
Tuesday	10	411/
Chicago, (April	6)No. 2	white
oats 411/2@42c; N	Iay 39%c	; July
DOFY -	CONTRACTOR OF STREET	The second second

Beans.—Demand good at advanced prices. The local board of trade quotes immediate and prompt shipments at \$1.98; May \$2 per bu. Chicago reports a steady trade. Pea beans hand-picked, choice, are steady at \$2; common \$1.75@1.85; red kidneys, choice \$2.80.

Rye.—This cereal is active. No. 2 is quoted at 68% per bu

Barley.—At Chicago barley rules easy and is quoted at 54@64c per bu., while Milwaukee quotes the malting grades at from 52@65c.

Cloverseed.—Values took another drop. Prime spot \$7.65 per bu; alsike at \$7.95. Toledo prime cash is quoted at \$7.50 and prime alsike at

Timothy .- Prime spot is selling at

2.30 per bu. Alfalfa.—Higher at \$7.50 per bu. \$2.30

FLOUR AND FEEDS.

Flour.—Jobbing lots in one-eighth paper sacks are selling on the Detroit market per 196 lbs. as follows: Best patent \$5.30; second \$5; straight \$4.75; spring patent \$5.10; rye flour \$4.40 per bbl.

Feed,—In 100-lb. sacks, jobbing lots are: Bran \$29; coarse middlings \$28; fine middlings \$30; cracked corn \$30; coarse corn meal \$29; corn and oat

coarse corn meal \$29; corn and oat chop \$26.50 per ton.

Hay.—Demand steady; prices unchanged. Carlots on track at Detroit are: No. 1 timothy \$15@15.50; standard \$14@14.50; No. 2, \$12.50@13.50; light mixed \$14@14.50; No. 1 mixed \$12.50@13; No. 1 clover \$12@12.50.

New York.—The market continues steady. No. 1 timothy, \$20@21; No. 3 standard \$15@20; light clover, mixed \$18@19; clover \$17@18 per ton for the large bales.

ton for the large bales.
Chicago.—Prices here rule higher.
Choice timothy is quoted at \$18@19

14 per ton: No. 1, \$16@17; No. 2, 13@ 14 per ton.

Straw.—Steady. Rye \$7@7.50; oat straw \$7@7.50; wheat straw \$7@7.50

per ton.

New York.—Rye straw \$17@19; oat straw \$11 per ton.

Chicago.—Rye straw is quotable here at \$7.50@8; oat straw \$6.50@7; wheat straw \$6.50@7 per ton.

DAIRY AND POULTRY PRODUCTS.

Butter.—Market firm with prices 1½c higher. Extra creamery 26c per lb; firsts 25c; dairy 17c; packing stock 14c.

Chicago.—Market is steady, with prices slightly higher. Extra creamery 25c; extra firsts 24c; firsts 21½ @22½c; seconds 19@20c; ladles 17@18c; packing stock 16c per lb. Elgin.—Market is firm at 24½c per lb., which is the same as last week. New York.—The market is weak, although prices are slightly higher.

although prices are slightly higher than last week. Creamery extras 25\% @26\%c; firsts 24\%@25\%c; seconds 22\@24c; packing stock 13\@

onds 22@24c; packing stock 13@15½c per lb.

Eggs.—Market stimulated by the approach of Easter. Prices slightly higher. Current receipts of fresh stock are quoted at 19c.

Chicago.—Market steady at prices about the same as last week. Miscellaneous lots, cases included, 17@18½c; ordinary firsts 17@17½c per doz; firsts 18@18½c; seconds 15½@16c.

Chicago.—Tthe market is with no change in prices. Quotations on live are: Turkeys, good weight 16c; others 12c; fowls, choice 18c; spring chickens 18c; geese 12c; ducks 16@17c per lb.

FRUITS AND VEGETABLES.

Apples.—Demand is fairly good and prices are unchanged. No. 1 \$5.50@ 6.50; No. 2, \$4@4.50 per bbl. In Chicago the market is quiet, although fancy stock is held steadily. Trade in box apples is dull. Prices have not changed: Barrel stock is quoted: No. 1 Jonathans \$6@7; Spies \$5.50@ 6; Baldwins \$5@5.75.

Potatoes.—Market is firm, with prices slightly higher. Quotations: In bulk 60@62c per bu; in sacks 65@67c per bu for carlots. At Chicago the market is firm, and some are holding for higher prices. Good Michigan stock is quoted at 60@65c per bushel.

bushel.

per bushel.

Cabbage.—Steady with prices unchanged. Good quality is quoted at \$3@3.25 per bbl. At Chicago the supply is excessive and demand is only fair. Prices about the same. Holand or Red \$1.50@1.75 per bb., \$20@22.50

per ton.
Onions.—The local market is steady Onlors.—The local market is steady with prices unchanged. Quoted at \$3.25@3.50 per sack for yellow and \$1.75 per crate for Spanish. At Chicago the market is weak. Holders are getting anxious to get rid of old stock. New stock is also slow. Good yellow sells for \$2.50 per sack and Spanish at \$1.50 per crate.

Boston.—Supplies have been moving out very rapidly since the first of the year. While last week's sales were far below former weeks, the amount aggregated 2,000,000 lbs. Prices are being well maintained on all desirable lots. The supply of fleece wools is practically exhausted. Michigan is practically exhausted. Michigan ½-blood is quoted at 23@24c; Michigan fine, 20@21c for unwashed. Washed fleeces are selling on about a 28c basis. In the wool growing states contracting is going on at a rapid pace at prices several cents above those obetained for similar grades a year ago grades a year ago.

GRAND RAPIDS.

The potato market advanced five cents during the past week, with buy-ers paying 50c for stock. Local deal-ers say that the situation is peculiar and that outside markets do not warrant the advance. A recent canvas made by the Grand Rapids & Indiana Railroad shows that between 2,600 and 3,000 cars of potatoes have moved the control of made by the Grand Rapids & Indiana Railroad shows that between 2,600 and 3,000 cars of potatoes have moved from loading stations on this road this season and the railroad people estimate that 1,500 cars remain to be moved, largely in farmers' hands, for shippers as a rule have unloaded and their warehouses are empty. A similar condition is said to exist on other than a year ago. There are few products for sale except poultry, butter, eggs, etc. Cattle \$7.50@9; hogs \$7.50@8.50; horses \$125@200; milch cows \$60@100; hay \$17.50@20; corn 55@70c per bu; wheat 90c; potatoes \$1 per bu; chickens 13c; butter 20c; eggs 18c.

Jay Co.—Roads are good. Much stock is moving to market owing to their warehouses are empty. A similar condition is said to exist on other Michigan railroads. The bean market is also higher, with white pea quoted at \$1.55@1.70. Eggs are firm for the Easter market, dealers paying 17½c. Poultry is scarce and higher, with 15½c live weight offered for fowls and chickens.

DETROIT EASTERN MARKET.

offerings Tuesday morning The offerings Tuesday morning were readily taken by the buyers. Potatoes are up to 90c. No apples were offered; onions sold as high as \$2 per bushel, and cabbage up to \$1.15. Horseradish 10c per bunch; eggs 22 @23c per dozen. Loose hay is coming in more slowly, with the price still ranging from \$13@17 per ton.

THE LIVE STOCK MARKETS.

Buffalo.

April 6, 1914.

(Special Report of Dunning & Steens, New York Central Stock Yards, East Buffalo, N. Y.)

Receipts, of stock

rards, East Buffalo, N. Y.)
Receipts of stock here today as follows: Cattle 175 cars; hogs 90 d. d.; sheep and lambs 85 d. d.; calves 1600 head.

d.; sheep and lambs 85 d. d.; calves 1600 head.
With 175 cars of cattle on our market here today and with only 16,000 reported in Chicago, our market on all cattle of good quality and finish, weighing above 1200, was strong to 10c per cwt. higher than last week. Cattle of common quality and butchers' weights sold from barely steady to about 10c per cwt. lower than last

about the same as last week. Miscellaneous lots, cases included, 17@ to about 10c per cwt, lower than last 18½c; ordinary firsts 17@17½c per doz; firsts 18@18½c; seconds 15½@ to about 10c per cwt, lower than last Model, 20c; firsts 18@18½c; seconds 15½@ Monday. At the close of the market everything was well cleaned up at steady prices, with steady prospects for the future at present prices.

We had a fair supply of hogs here today, about 90 d. d. all told. Trading was slow and all grades about a nickel lower, outside of pigs. This class ruled strong. Pigs sold at \$9.25 generally. Best grades \$9.35. Closing trade was dull and a few going over unsold. over unsold.

over unsold.

The market was active today on both lambs and sheep. Prices 25c lower than the close of last week on lambs; sheep steady. Choice handy lambs selling mostly at \$8.40. We look for steady to shade higher prices on lambs last of week; it will depend upon receipts.

We quote: Choice lambs \$8.35@

we quote: Choice lambs \$8.35@
8.40; heavy do, \$8@8.10; cull to fair
do, \$7@8.25; yearlings \$7@7.50;
bucks \$4.50@5.25; handy ewes \$6.25
@6.50; heavy do, \$6@6.25; wethers
\$6.75@7; cull sheep \$4.50@5.75; veals
choice to extra \$11.50@12; fair to
good \$9.50@11; heavy calves \$5.50
@8.

Chicago.

April 6, 1914. Cattle. Hogs.
Receipts today. 16,000 36,000
Same day 1913. 27,069 39,498
Last week ... 38,881 95,369
Same w'k 1913. 39,651 167,801 Sheep. 29,000

Same w'k 1913..39,651 167,801 82,316

The condition of the cattle market at the present time may be inferred from the slowness of the general demand today, with so small a Monday supply. At a late hour very few steers were sold, and values for cattle not strictly choice were no more than steady. Prime beeves and fat butcher stock were called about a dime higher. Hogs were active at an average decline of 5c, with an \$8.90 top. The hogs received last week averaged 234 lbs. The run of lambs and sheep was excessive, and trade dragged at declines of 10@25c, but some prime yearlings brought \$7.50, few being offered.

CROP AND MARKET NOTES.

(Continued from page 433) tion. There is very little produce being marketed. Hens have been laying well for the past two weeks; eggs 24c; butter 24c; apples \$1.25 per bu; potatoes 75c per bu.

potatoes 75c per bu.
Indiana.

Wayne Co.—The ground is thawed out, but is not dry enough for plowing or sowing oats. Wheat and young clover looks fairly well. Roads are in excellent condition for the time of year. Some wheat and corn is being marketed. The farmers who have sugar bushes are now making maple syrup, but the production will not be large this year. The syrup sells for \$1.25@1.50 per gallon. Hens are laying well; eggs sell for 16c; wheat 93c; corn 60c; hay \$10@12; hogs \$8.25.

Daviess Co.-There have been no oats or potatoes planted, as is usually done in March. Wheat and new meadows are slightly damaged but are much better than a year ago.

Jay Co.—Roads are good. Much stock is moving to market owing to the scarcity of feed. Many silos are empty, and feeders are forced to ship. Good prices prevail. Wheat is coming out in fair condition. Cloverseed is all sown. No oats sown yet. Mice did much damage to young trees and shrubs during the snow. Eggs 16c; chickens 11c; hay \$7@11; corn 85c per cwt; oats 36c. Many farmers are buying autos. buying autos.

Osceola Co.—We are having fair weather. Snow is all gone, though we did not have much this winter. The ice harvest was a month later than usual, but the quality was very good. The top wages for hired men is \$40 per month. Land values are high, prices paid recently being around \$167 per acre.



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thern grown. Also Sweet and other clovers, Peas, in fact a full line of Farm and Garden s, Highest quality. Priced to save you money, esale price list for asking. A. H. FOSTER, ALLEGAN. MICHIGAN

Strawberry FREE Send address and get 25 fine, PLANTS Everbearing Strawberry Plants free. Dept. 39, MUTUAL NURSERY CO., St. Louis, Mo.

SOY BEANS—Northern grown, Ito San earliest known standard variety, \$3 per bushel. Soil for inoculation and full directions, 50 cents per bushel extra. KENWAHL FARM, Swanton, Ohio.

FOR SALE—Seed Oats, Alexander. A New Veright 37 lb. Tree variety. last year yield 64%, Weight 37 lb. Tree variety. Stiff straw, \$1 per bu-Sacks free. J. T. WEEKS, Napoleon Michigan.

PLANTS—Plum Farmer Black Raspberry Plants, 10c each, 75c per dozen, the greatest Black Raspberries on the Market; Strawberry Plants, (Dnice varieties at 50c per 100, Long Fellow, King Edward, Helen Davis, Senator Dunlap and Bride of Michigan; Crimson Rambler Rose Plants, strong three-year Field grown at 50c each. King Humbert Canna's large dark Red, 10c each. HENRY WINKELHAUS, Box673, Howell, Mich.

PEACH TREES, Orchard Size, 485c each

APPLE TREES—Not by the million, but the finest stock grown. Free from disease and true to bame, Also other truit trees at Granger prices.

G. BANKER, Dansville, N. Y.

BARLEY-Wisconsin pedigree barley No. 13. Have a small quantity of extra choice for seed. Price \$1.50 bu. bag free, GEO. A. TRUE, Armada, Mich.

SEED POTATOES.-The Horticultural Division of the Mich. Experiment Station has a surplus of Sir Walter Raleigh seed potatoes for sale, Price 31 abu., F. O. B Lansing, Mich. Money Laust accompany order. Address Horticultural Division, East Lansing, Michigan.

FOR SALE-250 BUSHELS BARLEY recleaned for seed. H L. COLE, Palmyra, Mich.

THIS IS THE FIRST EDITION.

The first edition is sent to those who have not expressed a desire for the latest markets. The late market edi-tion will be sent on request at any time.

DETROIT LIVE STOCK MARKETS.

Thursday's Market.

Cattle.

Receipts 1464. Market steady with Wednesday, but 15@25c lower than last week on everything but canners, stockers and feeders which are steady.

last week on everything but canners, stockers and feeders which are steady.

We quote: Best steers and heifers, 1000 to 1200, \$7.50@7.75; do 800 to 1000, \$7@7.25; do that are fat, 500 to 700, \$5.50@6.50; choice fat cows, \$6@6.25; good do, \$5@5.50; common cows, \$4.50@4.75; canners, \$3@4.25; choice heavy bulls, \$7@7.25; fair to good bolognas, bulls, \$6.25@6.50; stock bulls, \$5.50@6; choice feeding steers, 800 to 1000, \$6.75@7; fair do, \$6.50@6.75; choice stockers, 500 to 700, \$6.50@6.75; choice stockers, 100 to 700, \$6.50@6.75; choice stockers av 766 at \$7.25; do av 797 at \$7; to Mich. B. Co. 1 bull wgh 900 at \$6.75, 1 cow wgh 990 at \$6; to Bresnahan 1 cow wgh 776 at \$4; to Mason B. Co. 2 heifers av 590 at \$6.75, 1 cow wgh 990 at \$4.75, 10 steers av 743 at \$7.25; 2 cows av 975 at \$5.75; to Thompson Bros. 2 do av 1075 at \$5.75; to Thompson Bros. 2 do av 1075 at \$5.75; to Bresnahan 1 do wgh 810 at \$6.65, 16 butchers av 766 at \$7.15; to Kull 26 steers av 871 at \$7.50; to Gerisch 20 do av 1043 at \$7.40; Spicer & R. sold Mich. B. Co. 4 steers av 790 at \$7.25; to LaBoe 1 do wgh 620 at \$6, 1 cow wgh 960 at \$5.75; to Bresnahan 1 do wgh 810 at \$4.75, 1 do wgh 1040 at \$5.25; to Mich. B. Co. 11 steers av 904 at \$7.30, 1 bull wgh 1360 at \$6.65, 8 steers av 946 at \$7.40; 1 do wgh 140 at \$8, 1 bull wgh 1290 at \$6.65, 13 steers av 891 at \$7.40, 1 do wgh 1140 at \$8, 1 bull wgh 1140 at \$6.65, 2 cows av 1340 at \$6.50; to Mitche

at \$8, 1 bull wgh 1140 at \$6.65, 2 cows av 1340 at \$6.50; to Mitchell 5 stockers av 708 at \$7; to Merritt 3 cows av 970 at \$5.35; to Sullivan P. Co. 4 steers av 1000 at \$6.25, 4 do av 895 at \$7.25; to Hammond, S. & Co. 1 bull wgh 1600 at \$6.60; to Mich. B. Co. 12 steers av 800 at \$7.50; to Rattkowsky 1 cow wgh 1700 at \$6.65, 2 do av 890 at \$5.35, 1 do wgh 1150 at \$6.50, 1 bull wgh 1490 at \$7; to Mason B. Co. 7 cows av 1093 at \$6.25, 9 steers av 905 at \$7.40; to Thompson Bros. 2 cows av 1005 at \$5.25, 16 steers av 860 at \$7.35, 7 do av 943 at \$7.60, 1 do wgh 1020 at \$7.60; to Laboe 1 heifer wgh 750 at \$6.75, 1 steer wgh 1040 at \$7.50; to Fruitchey 34 stockers av 356 at \$6.65, 4 cows av 790 at \$7.50; to Heinrich 12 steers av 1076 at \$7.60. Veal Calves.

Veal Calves.
Receipts 582; market active and 75 @\$1 higher. Best \$11.50@12; others

Receipts 582; market active and 75 @\$1 higher. Best \$11.50@12; others \$7@10.75.

Bishop, B. & H. sold Nagle P. Co. 4 av 150 at \$10, 6 av 135 at \$10.50; to Sullivan P. Co. 5 av 120 at \$10.75, 3 av 150 at \$11, 1 wgh 130 at \$9, 2 av 120 at \$10.50, 5 av 150 at \$8, 16 av 155 at \$10.75, 3 av 150 at \$11, 1 wgh 130 at \$9, 2 av 120 at \$10.50, 5 av 150 at \$8, 16 av 155 at \$10.75, 3 av 170 at \$11.50; to Thompson Bros. 5 av 145 at \$11, 6 av 135 at \$11; to Hammond, S. & Co. 5 av 125 at \$10.50, 10 av 147 at \$11; to McGuire 4 av 130 at \$9.50, 21 av 150 at \$11.75; to Mich. B. Co. 14 av 135 at \$11.50, 5 av 150 at \$11.75; to Sullivan P. Co. 8 av 130 at \$11.50, 5 av 150 at \$11.75, 6 av 155 at \$12; to Parker, W. & Co. 3 av 170 at \$12, 5 av 140 at \$11.75, 6 av 155 at \$12; to Parker, W. & Co. 3 av 170 at \$12, 5 av 140 at \$10, 4 av 145 at \$11.50, 8 av 140 at \$11.25, 11 av 125 at \$11.50, 8 av 140 at \$8.50.

Sheep and Lambs.

Receipts 3462. Market strong. Best lambs \$8.25; fair to good do, \$7.50@8; light to common lambs, \$7.07.25; yearlings, \$7.25@7.50; fair to good sheep \$5.75@6; culls and common \$4@5; clip lambs \$7.

Spicer & R. sold Young 26 lambs av 80 at \$7.50; to Mich. B. Co. 10 do av 55 at \$7, 36 do av 78 at \$8, 38 sheep av 120 at \$6, 4 do av 110 at \$4.50.

sheep av 120 at \$6, 4 do av 110 at \$4.50.

Haley & M. sold Parker, W. & Co. 18 lambs av 70 at \$8, 10 do av 59 at

Bennett & S. sold Newton B. Co. 30 lambs av 95 at \$8. Receipts 5883. Non

Receipts 5883. None sold at noon; prospects 10c higher or \$8.80@8.85.
Bishop, B. & H. sold Parker, W. & Co. 2000 av 200 at \$8.85, 410 av 180 at \$8.80.

TOR SALE -250 BUSHELS BARLEY recleaned for seed. H L. COLE, Palr. yra, Mich.

HOME-MADE CONCRETE MIXER—Buns by hand or 11: H P. engine. New castings furnished if desired. Write for descriptive felder. G. O. SHELDON, Nehawka, Neb.

at \$8.80.

Roe Com. Co. sold Sullivan P. Co. 107 av 200 at \$8.85, 91 av 160 at \$8.80.

Haley & M. sold Hammond, S. & Co. 885 av 200 at \$8.85.

Spicer & R. sold same 350 av 200 at \$8.85, 100 av 170 at \$8.80.

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you must handle it quickly.
You must know positively that your machines will be in shape to work from early till late with-

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FLYING DUTCHMAN HAY TOOLS are the best made—most reliable hay tools on the market. They can be depended upon every min-

ute of the haying season.

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Adjustable Carrying Spring takes unnecessary weight off the Cutter Bar and puts it on the wheels, reduc-

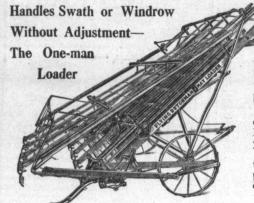
ing draft and increasing traction power.

Automatic Spring Draft prevents damage when striking obstructions.

Knife starts instantly when thrown into gear. Adjustable Hard Steel Wearing Plates keep the knife head in correct position. Cuts like new after many years of use. Cutter bar moves up and down freely without binding, and always follows the ground, no matter how uneven it may be. It folds over the tongue, insuring against

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A one-man loader-simple in construction, practical in operation.

Driven direct from axle, without chains, cogs, sprockets, gearing or webs of any sort. Nothing to lose, break or get out of order.

Anyone who can drive a team can handle this loader ALONE. It puts on a big half load before you have to touch it with a fork. Extra long stroke does not thresh out the seed, break hay or Yielding pound the machine. deck prevents clogging.

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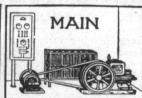
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I have another lot of 125 chicks just hatched. I am giving your remedy and have not lost any so far. I am nearly out of Abbott's Remedy now. I want you to send me two large boxes.

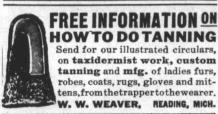
-Mrs. Tillie Adler, La Salle, Mich. This remedy for white diarrhea, chicken cholera and other bowel ailments in poultry may be secured from The Abbott Alkaloidal Company, Ravenswood, Chicago, Illinois. Fifty venswood, Chicago, Illinois. Fifty cents and \$1.00 boxes with booklet on poultry diseases by parcel post. Money back if not satisfied.—Advertisement.

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Poultry.

A PRACTICAL BROODER HOUSE.

Experience has told me that the practical brooder house will be the one in which the greatest number of chicks can be reared with safety and retain their vitality. In the construction of the houses which I have on my poultry farm I held close to the that these houses can be more cheaphouse, and are far cooler on hot days, and, as well, give the caretaker more "head room." Two of these houses erable in the saving of time.

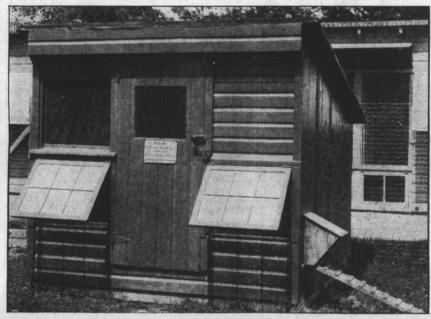
4x4's for the corners. The windows in and by straying into a corner, will front were hinged from the top so that plenty of air might circulate into they cannot be saved, the house on rainy days, without danger of having it rain in. Cotton cloth of one-inch mesh wire in the corners, was tacked over the other openings so that when the stock crowded in until late in the season, when the the corners they could not smother stock had reached the stage when too each other as there was an air space much air could not be given them. behind them. The dimensions of these houses is 6x8 By covering the roof with two-ply feet, with the front six and one-half roofing, I figured that I could, by givfeet high, and the back four and one- ing my own time, build this house half feet. This gives an incline which for about \$20. All openings were covwill insure winter snows not remain- ered with one-inch mesh wire, which ing on the roof.

fresh water again. The mash feeders should be filled each day to insure plentiful supply.

Two little tricks which I learned last season repaid me a thousand times, and saved the lives of hundreds of chicks. I use the portable hovers, as I do not like the ones which cannot be removed easily when cleaning, or be put away at end of season. I took a strip of two-foot chick wire, one-inch mesh, and cut it to proper length to circle hoverer and leave a six-inch space out from heat-Cornell plan with flat roof, for I found er all around. By making use of two strips of wood I nailed the ends of ly constructed than the "A" shape this together, which left a complete circle of wire. This was placed about the heater for the first three days, both day and night. The chicks did may be built while one of the others not stray away from the heater, and is being constructed, which is consid. learned their proper place for "mothering." This saved a large number of I used six-inch matched lumber for chicks, for they are sure to walk out the outside, 2x4's for the rafters, and from underneath the hoverer at night, become so chilled that by morning

The other plan was to nail strips

was an insurance against rats or oth-The opening for the chicks to trav- er enemies of the stock, and allowed



A Convenient and Practical Brooder House.

board two feet wide and three feet not injure the little ones.-E. W. G. long for a door to this. It was nailed through one corner, and worked on the slide plan. This was closed each night as soon as it had grown dusk. Hoppers were arranged on the sides of the houses, with separate comof matched lumber, and this I the same composition. The Plymouth covered with one foot of alfalfa meal, Rocks and Rhode Island Reds made and buried a peck of chick feed in greater gains than Leghorns under same previous to placing the chicks the same conditions. in the house. With the use of a In a crate fattening experiment a mash feeder this fed them for two weeks without my continuous care, each, gained 10.75 lbs. on 105 lbs. of a and eliminated the need of feeding mixture consisting of wheat, bran, every two hours. Brooding the num- corn, chop, and wheat middlings, 3 ber of chicks that I do, it would be lbs. each with 1 lb. of beef scrap. Anutterly impossible for me to feed the other lot of 16 chickens averaging stock in each house every two hours, 2.37 lbs gained 8 lbs. on 60 lbs. of the and farmers who manage large farms same feed, and another lot of 25 will find that the care that stock will chickens, averaging 1.24 lbs. each, demand in a practical house of this made a gain of 13 lbs. on 74 lbs. of type will surprise them. By placing feed. It is stated that the gain in fresh water in the fount early in the weight is but a small part of the benmorning, and keeping the lamp trim- efit of crate fattening, the most immed each day, no further care will portant being the improvement in the be needed until noon and night for quality of the flesh.

el in and out was arranged at the them plenty of fresh air night and side, near the corner, with a little day. The windows were closed each hood arrangement which kept the day at four o'clock for the first two storm out of the opening. I used a weeks, that the chill night air might

SOME POULTRY EXPERIMENTS.

In an experiment at the Pennsylvania Experiment Station with 200 growing chicks from one to two partments for the mixed dry mash, weeks old, those fed a wet mash of charcoal, grit and meat scraps. The cracked corn, pin-head oats, shredded water fount was hung from a nail wheat, waste, and beef scrap, grew near at hand. The floor was made faster than those fed a dry mash of

lot of 16 chickens ave

APRIL II. SERIE

A GULLER DE MARKET DE LES

No Lopsided Stones

every CLEVELAND GRINDSTONE is absolutely even in hardness all through, and sharpens knives, axes, hoes and cutter-bar blades exactly right.

Made of the only genuine Berea stone, finest in the world. Guaranteed to do satisfactory grinding, or you money back. We are the biggest grindstone makers in America. We have experts of 50 years' experience who select stones with the right grit for farm use. Let them select for you.





STANDARD BRED R.I. REDS Rose & Single Comb, S. L. Wyandottes, Pearl Guineas, F. & W. I. R. Ducks. Eggs (show quality) & per [5], (good grade) & Z5 per 30. All eggs sent free by P. P. & I yrs. sub., to Michigan Poultry Breeder given to each customer. FRENCH FRUIT & POULTRY FARMS. Laudington. Michigan,

FGGS from prize winning Barred Rocks, R. C. White Eleghorns, Silver Spangled Hamburgs, Fawn & White Runners, Circular free. Holstein bull calves Henger-veld DeKol blood. Riverview Farm, R. No. S. Vassar, Mich. EGGS—Pure bred Light Brahmas, White Wyandottes \$1,50 per setting, \$2.50 per two settings. Cock erels, MRS. E. D. BISHOP, Lake Odessa, Michigan

DOSE and SINGLE COMB RHODE ISLAND RED Land INDIAN RUNNER DUCK EGGS, from heavy winter layers. Our winners. Eggs and stock for sale winter layers. Oup winners. Eggs and stock for sale MRS FRED NAPIER, Novi, Michigan.

ORPINGTONS—Single Comb White Cockerels, eggs day-old-chicks, Safe delivery guaranteed. Order shead. Mary Thompson, Redford, Mich

EGGS—White Holland Turkey, 9 for \$3.00, white egg strain; Indian Runner Ducks 13 for \$1; Barred Rock 15 for \$1. T. B. & E. H. McDonagh, Burt, Mich FANCY (S. C.) WHITE LEGHORN COCKERELS Price \$2 and \$3 each. Choice eggs, \$1 per setting John McNicell, Station A., R. 4, Bay City, Michigan

S. C. White Leghorn Eggs SI per I5, \$5 per 100 ing strain. J. W. WELLS, Montague, Michigan Rose Comb Rhode Island Red Eggs 15 for \$1.50.
BUELL BROS., Ann Arbor, Michigan

PLYMOUTH Rock cockerels 5 to 11 lbs., according to age, hens 5 to 8 lbs., 15 eggs \$2. Mammoth Bronze Tom Turkeys 8 to 35 lbs. according to age. Price \$8 to \$25, 10 eggs \$4. A. E. CRAMTON, Vassar, Mich.

FOR SALE—We have the finest pens of White Orpingtons in Indiana, backed by trap-nested stock, Eggs in lots of 50 or more 5c apiece. R. H. MACKINDER, Napanee, Indiana.

EGGS FOR HATCHING—Buff Orpington, \$1 per 15, \$2.50 per 45; \$5 per 100, MRS. OALVIN FULLER, R. No. 2, Bancroft, Mich. Barred P. Rock Eggs From the Bradley strain for A. A. PATTULLO, Deckerville, Michigan.

Pinglet Barred Rock Cockerels for Sale.
The N. Y. winning and laying strain. Two for
S. begs from the noted strain \$1.50 per 13.
PLAINVIEW STOCK FARM, Romeo, Michigan. P. OSE COMB WHITE LEGHORN EGGS for setting. 15 for \$1.50, 50 for \$3, 100 for \$5. A. R. LEVEY. R. No. 23, Elsie, Mich. Union Phone 106-3 R.

Rose Comb Rhode Island Reds. Consistent winners at Lansing Rand Bay City. Some good breeding males, also eggs for hatching. Send for free mating list. J. Ezra Welsh, Mason, Mich.

FOR SALE-Eggs for hatching from M. Pekin Ducks and R. C. Br. Leghorns, two best lines in America, also a few ckrls. at 1.50 each, and two Jersey but calves elig. to reg. Claudia Betts, Hillsdale, Mich.

EGG-A-DAY Barred Plymouth Rocks, Bred-to-Lay. Eggs, \$1.50 per 15; \$2.75 per 30. EGG-A-DAY Poultry Ranch, Marshall, Mich.

Barred Rock Eggs, 15 For \$1.50, 100 For \$7. W. C. COFFMAN, R. No. 6, Benton Harbor, Mich. WHITE LEGHORNS DAY-OLD-CHICKS-Wyckoff Strain.
Maple City Poultry Plant. Box C. Charlotte. Mich. White Wyandottes Eggs from best pens \$3 per 15; \$9 per 15. David Ray, 202 Forest Ave., Ypsilanti, Mich.

BARRED ROCK EGGS FOR HATCHING \$10 per 130. J. A. BARNUM, Union City, Michigan. CHICKS—We ship thousands each season. Booking orders now for spring delivery. Prices always right Free booklet. Freeport Hatchery. Box 12. Freeport. Mich BUFF PLYMOUTH ROCKS—Heavy winter layers. Eggs \$2.00 per setting. Write wants. GEO, W. WAGNER, Ann Arbor, Mich.

LILLIE FARMSTEAD POULTRY B. P. Rocks, R. I. Reds, and S. C. W. Leghorn eggs for sale, 15 for \$1:26 for \$1.50: 50 for \$2.50. COLON C. LILLLIE. Coopersville. Mich.

Eggs For Hatching—From white Indian runner and guineas. H. V. Hostetler. Route No. 1. St. Johns, Mich. PRIZE WINNING BARRED ROCKS, S. C. Reds, Pekin and Indian Runner Ducks, Stock for sale, eggs \$1 up. chicks. Circular free. EMWOOD FARM, R. R. 13. Grand Rapids, Mich.

Pine Crest White Orpingtons —As good as the best, eggs, Write for catalogue. MRS. WILLIS HOUGH, Pine Crest Farm, Royal Oak, Michigan.

BARRED P. Rocks—Cocks, Hens, Cockerels & pullets for sale. Also trios and pens mated right. Guar, antee to satisfy you. Ostrander Bros., Morley, Mich-

S. L. WYANDOTTE EGGS—From great laying strain of Blue Ribbon Birds. Satisfaction guaranteed. F. E. Cowdrey, Ithaca, Mich. SILVER, GOLDEN and WHITE WYANDOTTES.
White Stock Especially good, send for circular.
Browning's Wyandotte Farm. R. 30. Portland. Mich.

Tells why chicks die

J. C. Reefer, the poultry expert of 1604 Main St.,
Kansas City, Mo., is giving away free a valuable book
entitled "White Diarrhoea and How to Cure It."
This book contains scientific facts on white diarrhoea
and tells how to prepare a simple home solution
that cures this terrible disease over night and
actually raises 98 per cent of every hatch. All
poultry raisers should write MR. REEFER for
one of these valuable FREE books.

Grange.

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

APRIL PROGRAMS.

State Lecturer's Suggestions for Second Meeting.

Song.
Roll call, responded to by each member giving a sentiment or fact relating in some way to a cow. Recitation or reading, "The Farm

Which is more profitable, making butter at home or selling cream at a creamery

L. Making butter. 2. Selling cream. Character song. Care of cream to be sent to a

ing helps for this program.

Music.

BENNINGTON GRANGE.

The worthy lecturer of Bennington Grange has given me the task of naming the good points I received from last meeting's program. Well, I think that program worthy of mention in the Grange department of the Michigan Farmer, and think if our State Master, Mr. Ketcham, had been present he would have been impressed with the notion that an ordinary Grange under ordinary circumstances Grange under ordinary circumstances Grange under ordinary circumstances can produce a program worthy of mention at some Pomona meeting. Perhaps he might have remembered it some time at a Grange gathering in northern Michigan. I once heard him tell of the good meetings they have un there

to by the patrons mentioning some labor-saver they thought of, and perhaps we all thought of more when we reached home. The Michigan Farmer had a good article for the ladies on this subject some time ago.

Mrs. Drury and Mrs. McKowen impressed us with the idea that if we wished the Grange to prosper we must not be afraid to put forth the best within ourselves for its advancement. It applies to every members

ment. It applies to every member.

Mrs. Ruess suggested that we contemplate a corn club for our boys the coming summer. This impressed mevery favorably. The worthy lecturer read a very entertaining letter from Mr. and Mrs. Shadbolt. We all wished that we might call upon them in their beautiful southern home.

The question "Which pays best for

Farmers' Clubs

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

THE FARM LABOR PROBLEM.

(Continued from last week).

I believe that another equally important reason for the few competent workers that are seeking employment on the farm may be found in the lack of society and recreation there. To one reared in the excitement and society of a city, with the numerous show-houses and other forms of recreation—cheap and garish though they may be-to such a one, especially if young, life in the country seems creamery, a ten-minute paper by a intolerably monotonous. They would Reading, "The Discontented Farm agree with a Toledo man who brought his family to live in a neat, comfortable tenant house four miles Exhibit of dairy utensils, models and pictures, in charge of steward.

Treasurer assists lecturer in securbone, plenty of fruit and vegetables from Ann Arbor. They had a good for the gathering, reasonable work at good wages, but they preferred physical want in the city to social starvation in the country, and soon moved back. Perhaps if they had stayed longer, or if the country people had been a little less conservative and taken them in, these city people would have found less need for Toledo, but our rural dwellers make less attempt to become acquainted with these transients. "What is the use?" they argue. "They will soon move away. Besides, they often belong to a more or less degenerate type." Unfortunately, too many of our presentday laborers are practically degenerates, and the fact that they do not The first was roll call, responded care to be associated with them in name or in person, is one reason why the better class of young men shun farm work.

(Continued next week).

CLUB DISCUSSIONS.

Favor Township High School.—The Greenbush Farmers' Club held its March meeting at "Cherry Lawn," with Mr. and Mrs. John Zigler on March 19. About 80 members and visitors were present to listen and take part in the excellent program. The Club opened by singing, "The Farmer Feeds them All," followed by the Lords Prayer in unison. Following the secretary's report, Mrs. Robert Cahoon opened the program by a recitation, followed by a vocal duet the that we might call upon them in their beautiful southern home.

The question, "Which pays best, for a man to work a small farm alone, on a large one and hire help," was discussed very ably but all in favor of the large farm. I think I might have derived more benefit from that subject if something had been said for the small farm. If the time had nor been limited I think some good things might have been said in favor of the small farm. It might be a good subject for discussion at some future time. One thing is certain. A microbe of independence can run through the veins of the small farm who has to depend upon hired help to get his work done.

We were then most highly entertained by members of the Grange who presented a dialog dealing with the house servant problem. Though somewhat of an exaggeration it gave each one the impression that so long as we are given health and strength it is most desirable to do our own housework and thereby be independent of the servant question.

We adjourned, all feeling amply repaid for having gotten together to enjoy each other's society for a day.

Mrs. John Burgess. others. He thought, as did most of the members, that the corn crop was by far the best crop when everything was taken into consideration. Rev. Plews of Maple Rapids, was then introduced by the president, and gave a very excellent address on "Physical Culture." He pointed out that it was physically necessary and by God or common once more in "Old Gratiot." We have not as yet attempted to revive the dormant Granges but are making a strong effort to infuse new blood and re-enthuse those of our Granges which are not up to normal. We have subdivided the county in three parts, with a local deputy for each section.

Our Pomona boasts over \$125\$ in the treasury and with that fund to draw upon we bid fair to keep things moving. Bro. Kiefer will have complete ed a canvas of our county by the end of the third week in March.



HEWO BELGIANS They Are Here!

H. & H. Wolf importers of Belgian Horses exclusively, advise old and prospective patrons that their new 1913 importation is now in their barns. It is in all respects by far the most se-lect lot of horses of this breed that have ever been stabled in their barns. Big weighty typey drafters of quality Big, weighty, typey drafters of quality all through, that challenge comparison with the Best Anywhere. A select lot of mares, too, Get our terms and Guarantee. This will interest you as much as the horses.

Hewo Stock Farm Wabash, Indiana More than a quarter century with the breed,

***** Special Announcement.



The fine lot of horses received in our last two importations are now in fine shape and you are invited to come and see America's foremost selection of

Belgians & Percherons BELL BROS., Wooster, Ohio

JNO. CRAWFORD. Horse Importer, Byron, Mich.

70 Head for Sale

Percheron, Hackney and Clydesdale Stallions.

Also Some Fine Percheron & Hackney Mares with foal. Now gentlemen I am going to sell. Be sure to get my

price before you buy.

Black Percheron Stallions MUST BE SOLD. \$250.00 AND UP. A. A. PALMER & SONS, Belding, Mich.

AUCTION! AUCTION!! AUCTION!!!

Of horses and mules every Monday. Private sale daily. From two to five hundred head always on hand, farm mares and chunks, delivery and wagon horses, pavement sore city horses, and drafters and work horses of every kind. South ST. PAUL HORSE AND MULE CO., Union Stock Yards, South St. Paul, Minn.

FOR SALE-1 big, heavy boned, Reg. Percheron Stallion, 1 yr. old past. Also 2 Reg. Percheron mares in foal. M. A. Bray, Okemos, Ingham Co., Mich.

FORSALE-3 Reg. Percheron Stallions, 3 to 7 yrs, old, of breeding and individual merit combined. Come or write, H. B. Peters, Burton, Mich. R. R. Sta., Elsie.

Percheron Stallions Pure bred Percheron stallion colts, 22 mos. old, wt. 1800 to 1850 lbs. \$400 to \$600 each. JOHN B. AMES, Byran. Ohio.

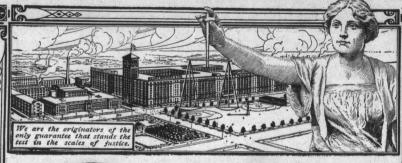
PERCHERONS—The only farm in the state where International first prize winners have actually been bred and raised. Come over and buy a good one; no reasonable offer refused. John Schipper, Filmore Center, Mich.

OME fine young registered Clydesdale Stallions for Sale from 1 to 4 years old. In the spring some will make ton horses with lots of quality and good action. Must be sold before the first of April.

F. A. PETZ, Capac, Michigan.

FOR SALE—Pure Bred registered imported German Coach Stallion, Areo No. 3538. Guaranteed sound, a good getter and sold for no fault; weight 1500. Must be sold at once. W. AUSTIN EWALT.V.S. Mt. Clemens, Mich. FOR SALE—Pair of 5-yr.-old black mares. Both in foal, weight 3%0 lbs. A good pair. Price \$650. HARRY STRUBLE, Muir, Michigan.

A BALKY HORSE can be made to start with an effective remedy. For further particulars write to O. F. HOPPE, Ann Arbor, Michigan.



David

Our price for the Bradley No. 1 Flat Drop Force Drop Corn Planter, complete with check rower is \$28.50, direct from our own factory. Its equal, if obtainable elsewhere, would cost you \$40.00 to \$50.00.

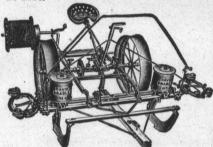
For complete description and prices turn to the imple-ment pages of our big Gen-eral Catalog, or if you prefer, send for our new Planter and Implement Book which contains descriptions and illustrations of the complete line of Bradley planters, plows, cultivators, harrows, spreaders, etc., besides buggies, wagons, harness, gasoline engines, supplies for dairymen, poultrymen, fruit growers and bee keepers. We make edge drop planters too. These are also described in the book we will send you. Just say "Send me your Planter Book No.75M76 on a postal card and mail to

>

HIS is the old reliable David Bradley No. 1 Flat Drop Force Drop Corn Planter. For over thirty years it has held first place with thousands of farmers in all parts of the country under all conditions. Recent improvements have made it even more popular than before.

It takes all kinds and sizes of seed, deposits without scattering. Is strong and durable, yet light enough in weight and in draft for any ordinary team to handle easily.

Simple, easy to adjust and drops uniformly. Hinged seed boxes tilt forward, making it easy to change plates. These and many other advantages are fully explained in catalog described at left.



Sears, Roebuck and Co., Chicago



Practical Science.

A CRITICAL STUDY OF THE MILK which items, of course, the consumer PROBLEM.

BY FLOYD W. ROBISON.

(Continued from last week). Cents Per Quart.

ceive this amount then they either over the costs entailed in the producare not receiving six per cent interest tion of milk, and would likewise inon their investment or else they are dicate to the consumer what a fair fringing on the legitimate domain of be. This, at the same time, would insome other business in which they sure the production, state-wide, of may be interested.

We believe that the greatest progress in successfully securing a SURFACE CULTIVATION DEFINED. wholesome supply of milk will be made by having the public generally realize the cost and difficulties in the production of milk, and we want dairymen to appreciate the value of the business. And after proper consideration is given by the consumer and the city milk distributer for the work and money involved in the production of milk, then it becomes possible, and then only, to demand of the dairyman that more attention be given to the sanitary condition of the milk under consideration.

The Cost of Distribution of Milk. We think we have covered in a general way, the real costs entailed by the producer. We are at present not in position to give the costs of the distribution of this milk. It is certain that the distribution of milk in the city costs more under our present system than it should. It is difficult to say how, short of municipal control of the distribution of the milk or of co-operation on the part of milk distributers, this can be remedied. Ross Bros. Co., Worcester, Mass., The trouble of trying to remedy conditions of distribution has heretofore been that the minute distributers get into a co-operative frame of mind, the interesting of the cost of milk to the creasing of the cost of milk to the minute distributers get into a co-operative frame of mind, the interesting of the cost of milk to the Michigan Farmer when when when the creasing of the cost of milk to t into a co-operative frame of mind, the immediate result always is the increasing of the cost of milk to the consumer, instead of lowering it, and without any additional considerations being given to the producer. The rivalry among distributers is so keen that it is necessary for their wagons to cover the same routes, the same streets. If distributer A. has a milk customer within a certain block in the north end of the city, then there are usually from two to a half-dozen milk distributers who furnish milk to some one family in this same block every day. The cost of the distribution of this milk is several times what it should be at this point were all of these patrons supplied by one wagon.

We do not know how this can be offset unless it may be done municipally or unless permission is given for different companies in the city to co-operate in the distribution of the milk. But unquestionably this is one

milk. But unquestionably this is one very large item of expense, for the distribution of milk by wagons is an expensive item. For figuring the money represented in the distribution as \$2,000,000, which would amount to \$80 per cow, we would find that \$120,000 must be realized on the year's work to account for the interest value of the money alone. This would be equivalent to 0.2c per quart which, of course, must be added to the cost of the distribution of the milk, all of year.

who buys the article must pay for.

The most remarkable thing about this, we think, will be apparent to the reader, and we are especially anxious The Cost of Milk Approximates Five that it become apparent to consumers, is that the dairyman must re-With other items of depreciation, ceive greater returns for his product. such as money necessary to keep the We believe that legislation on this land and buildings up to their origi- matter through the medium of an innal condition, it may be readily seen vestigating committee, composed of that the dairyman must receive five competent, practical men, which comcents per quart for his milk before he mittee would have the power at the has fully covered the cost of the pro- same time to establish proper methduction of that milk and the money ods of procedure in the retailing of invested therein. That farmers do milk and proper transportation of the not get five cents per quart for their milk, would safeguard to the producer milk is not sufficiently well known in a satisfactory price for his product, the cities, and when they do not re- which gives a fair margin of profit making up for the deficiency by in- price for this commodity, milk, should clean, high quality milk.

Please advise me in regard to surface cultivation of crops, especially in sandy and sandy clay soils. What I want to know is the difference bemen to appreciate the value of the tween a surfacee cultivator and a investment which they have in this shovel cultivator. Gratiot Co.

Surface cultivation means the stirring of the surface soil thoroughly for depth of say two inches and leaving it in a fine level condition so as to form an effective soil mulch. The most suitable implements for surface cultivation are those which will best leave the soil in the condition above described. Special implements are now made for this purpose, which are undoubtedly superior to those in common use. Of the cultivators in general use, the spring-tooth comes nearer to giving the desired results than the shovel cultivators, and of the latter those having narrow shovels give a better soil mulch effect than those with wider teeth.

CATALOG NOTICES.

amount of practical shooting helps, information regarding rifles, pistols, shotguns, and the proper ammunition for each, etc. Tells how to cast bullets, how to measure powders accurately and re-load ammunition, how to save money and do better shooting with less wear on your gun, etc. This book, together with catalog of repeating rifles and shotguns, will be sent on receipt of stamps for postage, by the above firm.

The hundredth anniversary of the writing of the national anthem, "The Star Spangled Banner," will be held in Baltimore in September of this

Veterinary.

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 someone else. When reply by mail is requested, it becomes private practice, and a fee of \$1.00 must accompany letter. Advice through this department is

Weakness.—I have a two-year old colt that perspires when in stable, but does not appear to be sick. H. B., Berlin, Mich.—If you work colt, clip him and give a tablespoonful of the following compound powder at a dose in feed three times a day: Powdered nitrate of potash, ground gentian, fenugreek, bicarbonate soda and salt. His bowels should be kept open and his food changed.

Difficult Churning.—I have a new

Difficult Churaing.—I have a new milch cow and every churning is full of false butter. What is the cause, and is there a remedy? O. E. F., Ridgeway, Mich.—You may keep your cream in too cool a place, for you should have no trouble in churning cream into butter made from a fresh cow.

rritation of Sheath.—The urine has irritated sheath of my 12-year-old horse so much that the parts are very sore and I would like to know what to apply. F. M., Ashley, Mich.—Apply one part oxide of zinc and five parts vaseline to sore parts of sheath once a day. Give him 1 oz. of bicarbonate of soda at a dose in feed three times a day. Keep him well bedded. bedded.

bedded.

Effects of Milk Fever.—Four weeks ago one of my cows freshened, followed by an attack of milk fever, and later she relapsed, now she is only giving about a quart of watery, slimy fluid, which is mixed with some blood. J. E. S., Allegan, Mich.—Her udder has become so congested and infected that you might as well dry her, for it will not pay you to milk her.

Scours.—A calf four weeks old died after having scours 20 days, now another calf four days old shows the same symptoms. This calf is fed milk by hand.—A. W., Standish, Mich.—Give your calf 10 grs. of salol at a dose four times a day. Disinfect and thoroughly clean stable, and do not forget to treat the navel of all young animals at birth, for by doing so you will prevent such ailments as this.

Ringworm.—I bought a cow that

Ringworm.-I bought a cow that Ringworm.—I bought a cow that had a few blotches on one side and now several of my cows have similar sore places. A. C. D., Mt. Clemens, Mich.—Apply one part iodine and 15 parts fresh lard to sore parts three times a week. Before applying the ointment, the sore parts should be washed thoroughly with soap and water before the first amplication is made. er before the first application is made.

washed thoroughly with soap and water before the first application is made. Cow Ejects Food.—In front of my five-year-old cow and in bottom of manger every morning I find a quantity of partially masticated food and I am inclined to believe she drops part of her cud. This cow seems to be healthy and is due to freshen in a few weeks. W. D. R., Ionia, Mich.—Feed her one-third less bulky fodder and increase her grain supply.

Loss of Power.—I have three pigs that have kidney worms, causing them to lose the use of their hind quarters. I have been giving a teaspoonful of powdered copperas divided between the three pigs once a day. M. J., Clio, Mich.—It is very difficult for an expert to tell whether pigs suffer from kidney worm or not. I am inclined to believe that your hogs have been fed too much fat-producing food and not enough bone, muscle and tendon producing food. Instead of corn, give them oats, oil meal, bran, tankage and roots. Keep muscle and tendon producing look. Instead of corn, give them oats, oil meal, bran, tankage and roots. Keep them dry, warm, and see that they exercise some every day. Apply one part turpentine and three parts olive oil to back every day or two. Mix a oil to back every day or two. Mix a teaspoonful of air-slaked lime in their feed night and morning.

M. H., St. Clair, Mich.-Your pig is

M. H., St. Clair, Mich.—Your pig is incurable.

Mange.—I have a pig nine months old, with a dry, deep scurf over its entire body, causing intense itching. W. H. C., Jackson, Mich.—Apply one part sulphur, one-half a part carbonate potash and two parts fresh lard to itchy parts of body three times a week. After the itchiness leaves, apply one part oxide of zinc and nine parts vaseline every day or two.

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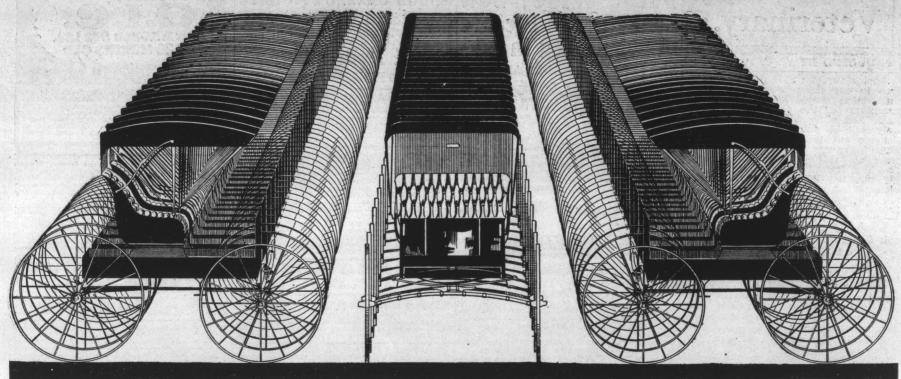
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