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Selection and Care of Seed.

DETROIT, MICH., SATURDAY, SEPT. 9, 1911.

seed is next to fertility, the most impor- average farmers usually give credit. tant factor in crop production for the farmer to consider. I would put a fertile farmer in the selection of his seed wheat all together and then select your seed orous plants, and I am inclined to think soil first, and proper seed second. Of and oats. On a farm where the soil is wheat from the mixed product. And it is that if one would persist in selecting the course, they both go together. You uniform throughout not as much can be the same way with oats. It is not so earliest ears year after year that he cannot raise a good crop on poor soil; accomplished in this way as on a farm neither can you raise a good crop on where the soil is not uniform. But in the crop separate if it is of better quality, good soil with poor seed, and yet fertil- our locality where the soil is not uni- seemingly of stronger vitality, and thresh ity is the basis of all successful argicul- form there are certain portions of the this separate and keep it for your own and I wouldn't discard an ear of corn ture. It needs no argument to prove field which produce better crops of a seed. show a

I believe that the selection and care of culture owes more to such men than we by itself and reserve this for your own don't believe, however, in always se-A journey through the country will certain kind than other portions of the



Baling Straw to Get it Under Cover is Sometimes Good Economy.

There you will find prosperity. But get the very best wheat. It is the plumptile. varieties of seed and seeds of the proper quality.

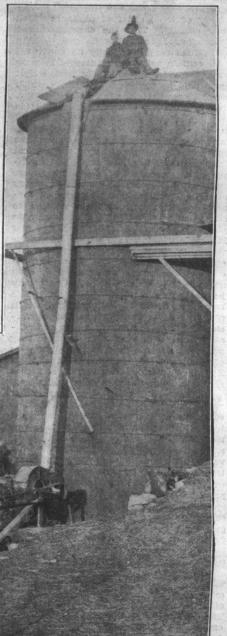
to get the best results one must have, est, the very best developed and contains is in the leaves and in the stalk, conin connection with a fertile soil, proper the most vitality. Now from this portion of the field the farmer ought to select his seed wheat. He will have wheat with We may learn very much from men more vigor, and it is the same way with who have carefully selected seed. Many oats and barley. If one realizes the imvarieties of wheat, oats, and other kinds portance of it; if he truly believes in it, of grain are due to close observation and it is not so very much trouble, because careful selection by men who understand after the wheat is shocked and you be- plished only before the corn is cut, by the importance of good seed and who gin drawing and storing it in the barn were patient enough to follow up their you can haul this portion of the field stalk carefully and selecting the seed results to a practical conclusion. Agri- first and put it by itself and thresh it from the best. I believe this pays.

seed. This is much better than it is to lecting the earliest ears. very much trouble to store a portion of.

Potatoes, without a doubt, ought to be I realize that it is quite a task to dig a best, and again when you dig your potatoes with a machine this is impossible. The potato seed plat is the real and correct solution of this problem where it is not so large but that each hill can be looked over carefully and the best ones selected from the plat for next year's seed potatoes. But where one plants the smallest sized potatoes and the medium sized he is selecting them from the most prolific hills, because these hills are the ones which have the smaller and medium sized potatoes. But it is needless to argue this question again in the Michigan Farmer because it was quite thoroughly aired last winter.

In the selection of seed corn I think that the plant ought to be the unit of selection, rather than the ear. I would rather have a fairly good ear from a splendid plant than to have an extra nice ear from a poor plant. Of course one cannot go down as fine as this in the selection of oats and wheat, that is the average farmer cannot, but in the selection of his corn he can take the plant because the ear of corn is only about 60 per cent of the food value of the plant. 40 per cent of the food value sequently the farmer, especially he who keeps live-stock, is almost as much interested in the corn stalks as he is in the ear of corn itself. So he wants a well developed plant and of course a well developed ear on this well developed plant. This kind of selection can be accomgoing through the field and noting each

The earliest Much can be done by the average store wheat promiscuously and mix it ears don't always grow on the most vigwould find out that his corn would deteriorate in value. You want well developed plants and well developed ears that grew on a plant that grew big leaves simply because it wasn't thoroughly filled man where the soil is most fer- field. On some of our heaviest clay we selected from the largest producing hills, out at the end, because this is more of a matter of fertilization than anything whole field before you pick them up and else. I thoroughly believe in the ear to then select from the hills which yield the a row selection of seed corn. The theory is right. The trouble of it is that the average farmer finds it too much bother. It is a question if it would not pay the average farmer to buy his seed corn from a corn specialist, a man who de-votes time and attention to the growth and selection of seed corn, and a man who understands how. I am inclined to think that it would. It doesn't cost very much for seed corn to plant the average farm acreage and if this were purchased each year from a specialist I



This Quickest and Most Economical Method of Harvesting and Storing the Corn Crop is Increasing in Popularity on Michigan Farms.

believe there would be greater improve- fine soil grains, or light and leachy ment in the corn crop during the next character, with coarse soil grains, it will few years than would be possible in any require a high percentage of vegetable Of course, the corn specialother way. ist should be one selected under simi- sical imperfections, and indeed, most of lations. It is said of him that he "gar-lar conditions and as near home as pos- our older soils in Michigan are deficient ners from the soil the wealth of nations." sible so as not to get a variety that in this respect and their management is not adapted to local conditions.

Care of the Seed.

The care of the seed after it is once selected is almost as important as the These are doubtless the most important selection itself. Seed wheat and seed oats should never be wet after they are harvested. A heavy rain upon wheat in the shock often softens the berry and may show an acid reaction when tested is liable to lessen its vigor and care with litmus paper, or the presence of recurring wants. should be taken to avoid this as much as sorrel or other vegetation which thrives possible. A man in selecting his own seed wheat or seed oats can well afford lime, in which case an experimental apto take good care of those shocks which plication of this soil corrective should be made. The stable manure should, of he intends for his own use as seed, then, course, be carefully conserved and apof course, care should be taken to have it thoroughly dried before it is threshed, plied, and in very many cases supplementary fertilization will prove profitable so that when it is stored it will not sweat or heat in the bin.

as the selection. Of what avail is it to of the needs of the soil in this regard can select good seed corn and then have it be determined by the growth of the crops grown on it. If the growth is small and spoil in the curing. Since I have begun the last few years to fire dry my seed if the plants lack the dark green color which indicates plenty of nitrogen in the corn I know that I have a better stand of The soil, this should be supplied, preferably corn and more vigorous plants. corn should never get wet after being in the form of stable manure and clover or other legumes plowed down, suppleharvested. It should be fire dried and mented by fertilization with a fertilizer protected from freezing after it is dried. containing a liberal amount of nitrogen. Dry corn will absorb moisture during In case the growth is good but the grain damp weather and when it freezes it will be injured if it is not destroyed.

COLON C. LILLIE.

FARM NOTES.

The Chemical Analysis of Soils.

The Chemical Analysis of Soils. Please advise me through your paper what would be the chemical analysis of a perfect soil, if there is any such thing, and how is the best way to obtain these elements. My theory is, it is hard to supply its wants unless we know what it should contain. I have 20 acres of huckleberry marsh in which there is white sand for a depth of from one and one-half to three and one-half feet with a clay bottom. Does the clay at that depth make it any better? Midland Co. So many factors enter into the produckeeping the grain from lodging. By following up these general indications or mentary fertilization to the soil itself, more accurate knowledge can then be gained as to its requirements for maximum crop production.

ciated that the most crying need of the So many factors enter into the producaverage soil that has been long cultivattivity of soils that chemical analyses are ed condition, and that if this is neglected of little value as a guide to their productivity or the best means for their im-First among these factors provement. will probably come the degree of availquiry involves the considerations above ability of the plant food elements which This the chemist cannot mentioned in its correct answer. As they contain. determine. Indeed, it is claimed by high general proposition, however, a clay subauthorities that practically all cultivated soils contain sufficient plant food to grow good crops for an indefinite period if it could only be converted into forms which FIGHT DROUHT BY DEEP TILLAGE. would be available for the growing plants. But it must be remembered that it is only the soluble plant food, which is held vital subject among farmers all over the in certain limited combinations which United States. The government crop recan be utilized by plants. Then the port has stirred up discussion everywhere of means of fighting drought. Something question of the physical or mechanical condition of the soil, its depth and drainmust be done. The report shows the age and its capacity for holding moisture and giving it up to the surface by means during a single month since 1901-a genof capillary attraction, all of which faceral slump throughout the country, due tors are important in their relation to to drought and intense heat. soil productivity. The soil may contain plenty of potential plant food, and yet condition, indications are that the wheat. lack a sufficient amount of humus or crop will be 4.1 per cent less than the vegetable matter to make it productive, average annual production of the last five on which account it may leach or pudyears. Corn will be seven per cent less, dle or bake under unfavorable or even normal weather conditions. Or it may be acid, and thus prove an unsuitable home for beneficial soil bacteria, which tobacco 25.5 per cent less, flax 2.3 per play an important part in the conversion of plant food elements into an available form, or the opposite condition may prevail, as is the case in the alkali soils of the semi-arid sections of the west. For these various reasons, a soil that shows a high percentage of plant food when analyzed by the chemist, may not prove productive in practice, and, as is sometimes the case, a soil that shows a low percentage of actual plant food ele-

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as a means of building up the soil as well

yield light, phosphoric acid is needed and

phosphate fertilizers can be used with

profit, as they can on most Michigan soils.

In case the straw of the grain is weak,

potash fertilizers used in connection with

words, by putting the question of supple-

But at the outset it should be appre-

the results from supplementary fertilization will possibly prove disappointing.

The last question included in the in-

soil is desirable, provided it is not an

Deep tillage has become an even more

Taking into account both acreage and

barley 16.2 per cent less, buckwheat 8.8

per cent less, potatoes 21.9 per cent less,

the last five years. The total loss will

heavy the early season deficiency in mois-

In all the states where the losses were

was a big factor. Following the

into hundreds of millions.

impervious hardpan.

the improvement of its physical

in

a

the phosphate will prove beneficial

THE FARMER AND HIS MARKET.

The farmer stands and labors as one matter or humus to overcome these phyat the foundation of all business calcu-In other words, by his art of tickling the should be so directed as to increase their soil with his plow, sowing the seed and humus content as rapidly as possible in guarding the crops, he is able to garner order to bring about their improvement. the products on which the trader can traffic and distribute to feed the teeming preliminary steps which may be taken in millions who, by their various arts and the work of soil improvement. Then, if devices produce articles that, in an inclover does not grow well on the soil it direct way, return in exchange for the food that is required to meet their ever

The farmer of today is not like his on an acid soil may indicate that it needs ancestor who cut the bow, shaped the arrow as a means of crippling or killing his prey that satisfied the needs of his stomach as food, and furnished the skins with which he could make clothing to make himself comfortable. The wants of those peoples were few and easily satisfled; they lacked what we now call the The care of seed corn is as important as securing better crop yields. Something spirit of enterprise. The farmer of today is both a producer and a trader. If he succeeds in producing well, and is not a good trader he is not a success; he is easily robbed of his profits and is at the mercy of the greedy traders who delight in making him the hapless victim of sharp practices.

The spirit of enterprise that develops the genius that can trade with Mother The plain

and stimulates the appetite. The large, fat grub is what will attract the large fish while the minnows will nibble at the ordinary worm. It is by furnishing the tempting bait as to the quality of the product that good prices can be obtained that will leave a margin for profit over the cost of production.

The saying that "there is room at the top of the ladder" is as true with the farmer's products, as with the professional men. The genius who can develop an article of extraordinary merit as to quality, can command a good price for his greatest decline in the condition of crops product. This fact was emphasized to a great degree when I was visiting a dairy farm, and the poultry, which was a subsidiary business, seemed to be paying a good profit, for the milk-fed broilers were selling for 50 cents per pound early in the season, and at 35 cents per pound in midsummer. It was a case where quality was appreciated and willingly paid for. The rule will hold good with nearly, if

not all, that is produced on the farm. If one develops a kind of grain that is very cent less, than the average production of productive, it is profitable to raise at the going prices, and it will be in demand for seed at an advanced price. The fruit growers plant, train and feed their trees to make them thrifty, and when they bear fruit they weed out on the tree the shortage in rainfall during the fore part inferior specimens, leaving only the perof the growing season, the continued fect fruit to mature, and when picked drought and hot winds caused irreparable and exposed in the market, there is keen competition for it, for there is quality From many points come reports that that appeals to the taste in looks as well farmers are already taking time by the as to gratify the appetite. The luscious SEPT. 9, 1911



CHOICE SEED WHEAT. Goen wheat is a wondername wheat; still straw, bearded, and one of an around wheats I ever grew. Mealy wheat is also a red wheat but it is the variety. It is a most excellent wheat for very variety. It is a most excellent wheat for very wound. OOLON C. LILLIE, Coopersville, M arded, and one of the best all We do WHEAT SEED POOLE, GIPSY, MEDITERRANEAN. O. C. VALE, R. 5, New Carlisle, Chic tee and pric Seed Wheat St. Louis Prize per acre being reported recleaned and graded. Cata. and samples free. **Gold Coin Seed Wheat** Yield 2274 bu. from 53 ac. wheat, very stiff straw. for new Stark A Bags. Seed Wheat SALE-Po FOR D. P. VININ

Earth in toil and other natural requirements to produce good crops, ought to develop the genius of trade with his "fel-low heaps of dust," but such is not always the case. The gift of successful trading is developed only by a few who till the soil. The majority of soil tillers furnish the material on which the geniuses of trade make a living and gain to revel in wealth and luxury. clues with careful experiments; in other farmers are as gentle as a lamb that is annually shorn of his fleece, and robbed of its full value, for our congress per-sists in protecting everything the farmer has to buy, and generously (?) allows him to cultivate broad mindedness by compelling him to put his products in competition with products of the whole world, free. We are to reap the blessings (?) of freedom with a vengeance. Specializing for Better Prices. It is needless to say that very few fish are caught with a bare hook; it must be covered with something that appeals to

ments may be highly productive. Thus forelock to prevent a repetition of their fruit that carries size, beauty and flavor, a chemical analysis is of relatively little losses by drought. They will do it by never goes begging for buyers in these value in determining the important ques- deep tilling this fall, on the heavier, deep- .days when money is plentiful. tions submitted by the inquirer. er soils. The deep-tilling machines now not hear of overproduction in the way of Thus an inventory of the physical available now make it possible to pul- first-class fruits; there seems to be a properties of the soil is of much more verize the ground 12 to 16 inches or more demand for all that can be produced at practical value to the owner, and when in depth. Soil pulverized to this depth a remunerative price. If there is ever coupled with close observation of the absorbs the rainfalls, the melting winter any fruit for which there is not a good growing crops, will form the best basis snow, and the early spring rains. The demand, it is of the ordinary kind and for the securing of the desired knowledge water soaks to the bottom of the deep inferior in quality. The same rule holds good with live by practical experimental work, for in seed bed below the point of evaporation, the last analysis, only the soil itself can and is held there as a reserve against the stock. Notwithstanding the extensive use answer with authority the question as to time of need. There is no "lack of sub- of the steam cars, the great increase in what elements of physical condition or of soil moisture" in ground pulverized to a the trolley lines, all of which are well patronized, the advent of the automobile available plant food are lacking to bring depth of 12 to 16 inches or more. If the ground is only shallow plowed that is utilized to such an extent that it about a maximum production of crops. The intelligent and experienced farmer the water runs off or readily evaporates. is the "car for the million," good horses judge whether his soil needs tile In running off, not only is the moisture that are well proportioned and present can drainage, and if it does that should be lost, but the ground is damaged and often a comely appearance, bring good prices. the first step in its improvement. If it ruined by erosion. In fact, at no other period in the history is a heavy and impervious soil with very of the country have good horses paid Wayne Co. C. T. H. B.

run

ture

damage.

of raising than at the present time. The farmers who have the well-bred, 'sappy'' steers that carry the well marbled beef which is toothsome for the epicure, the banker, the factory man or the skilled laborer in any and all classes of work, has something for which there is a demand at good prices. The same is true of the lambs. A good class of lambs, which are developed while young, sell at a good remunerative price, even in this year of depression in the sheep business. Although hogs are not as high in price as during the last two or three years, yet the pigs of the right sort that are developed while young and sold early meet a demand that pays well for the raising.

ing and fastidious customers, whether soil and not put into the ground deep it he in high-class butter or other products. above the ordinary, the competition for it of the plant. The tendency will be to is so strong that it can be sold at an ad- work into the ground rather than workvanced price, while the ordinary and low ing out of it, and in the case of stable class articles go with the great mass of manure which forms a partial, and in produce of the same class, at ordinary prices, and are subject to the manipula- it is beneficial from this fact. tions of the markets by the "gamblers in trade," who are ever ready and active in manure directly from the stable and devising means by which they can fleece spread it on the field the year around. the producers.

The farmers who are capable of producing articles that are above the ordi- pasture, and we did the same last sumnary are the skilled artisans of the farming profession, and are as deserving of financial success and an honored position in their calling, as are those of the We are now putting it on the clover sod learned professions who live by their where we intend to plant corn and potawits, creating nothing, and giving but little of substantial value in return for what they receive. The avenues for active effort for the farmers are numerous, dressing and mulch until next spring, and the possibility for reward as flattering as in other walks in life. When each has discovered their own capabilities, are ready to adapt their efforts to existing That which we will put on late next conditions and meet the demands for the spring we do not expect to get as good best of the kind which the produce, they will find an active market at satisfactory prices.

Wayne Co. N. A. CLAPP. TURN ON THE LIGHT.

to keep a complete set of books? from some dependent ruralites reply would be to drawl out, "Yes-and-no." But why this indecision? Why do they not either give an affirmative, or a neg- ing year. ative answer? Evidently it is a question that a person may have a double view upon.

Perhaps from the following illustrations some kind of a conclusion can be arrived at. Should the driver of a vehicle carry left there until after harvest, then it at night lights? The time was when our was hauled out and spread on the oat forefathers traveled over well known roads in their slow-moving wagons that a light was of very little use, in fact, it would have been more of a nuisance than summer time it would be made fine a help. Yet today, with our automobiles, enough so that it could be used as a a help. Yet today, with our automobiles, lights have become a necessity, to guide the chauffeur and protect the passengers from reckless drivers. Public safety demands and state law requires, that horseless vehicles carry lights at night.

Formerly when prices were higher, the ground rent lower, and the land more productive, the farmer could plow, sow and harvest in a blind sort of way, but hauled this manure out from day to in this rapid age with its keen competi- day as it was made and put it onto the tion the man who has not all his lights lit will have trouble to steer down the and leach and ferment during a greater highway of success and avoid the ditches of failure.

some merchants were kept on the sugar to the field as soon as possible barrel cover. Where today is the suc-COLON C. cessful merchant who is stumbling along with such slipshod methods? He has left such unbusinesslike practices behind. Managers of manufacturing plants have complete sets of books to guide stable manure, commercial fer their actions, because they realize that their actions a cent wasted or saved Ottawa Co. means an unprofitable year or a handsome dividend for the stockholders.

lesson from the merchant and the manu- able to use a good application of ferfacturer. Need the question as to the tilizer on oat stubble for wheat, no matnecessity of accounts be repeated? How ter if stable manure was used either at many of the readers of the Michigan the present time or with a previous crop. Farmer can tell the profit on that crop I don't think that you would have any of potatoes, or how much they lost on difficulty from lodging. You are more that prized bunch of hogs?

uncertain avenue of prosperity.

Oakland Co.

E. S. C.

THE MICHIGAN FARMER.

better profits over and above the expense TOP-DRESSING VS. PLOWING UNDER STABLE MANURE.

Would you advise to plow under the manure to be used on the wheat fields, or is it better to spread it on after plow-ing and harrow it in well? The wheat is to be followed by clover. Ottawa Co. H. S.

I should always prefer to put the stable manure on top, as a top-dressing, and work it into the soil in preference to plowing it under, if it was always practical to do so, but stable manure, in a great many instances is too coarse and contains too much straw and other material to be used as a top-dressing because it interferes with proper cultivation, consequently the only way to handle it is to spread it on the land and plow The secret of the good market seems it under. I think, as a rule, that all fer-to be in pleasing the tastes of the exact- tilizers should be mixed with the surface because the rain will have a tendency By furnishing a good article, to carry the fertilizer down to the roots some instances, quite a successful mulch

My own practice is to draw the stable This summer, until after the clover was cut, we used it as a top-dressing on the mer and probably we will continue to do so each summer. When the clover is cut then we have a place to put the manure. toes next year. This field will not be plowed until next spring. In the meantime we will be applying it as a topbut, of course, we will be applying it all through the fall and winter and late next spring until it is time to plow the corn. results out of the first year as we do out of that which we are applying now, because that will be spread upon the top and plowed under in a short time while this which we are applying now acts as a mulch and the rains will wash out the soluble portions of it into the soil, and Is it necessary for the average farmer it will get so firmly fixed in the soil and The rendered so available that we will get more direct benefit from it next year, while that which we plow under later will give us a greater benefit the follow-

Now, with regard to applying stable manure on wheat. The old practice was to pile up the stable manure near the barn, in many instances it was simply thrown out of the stable into a pile and stubble and plowed under for wheat. Where manure is handled in this way, if it could be forked over once during the top-dressing, and if it was I should by all means wait until after I had plowed the ground, if possible, and then spread this manure on and harrow it in, work it into the soil, and I think you will get a greater value out of it than you would if you had plowed it under. But, on the other hand, I should have preferred to have day as it was made and put it onto the land rather than to have it lay in a pile portion of the year. It is now generally conceded that the value of stable manure A few years ago all the accounts of can best be conserved by hauling it direct

COLON C. LILLIE.

FERTILIZER FOR OAT STUBBLE.

On an oat stubble, well fertilized with stable manure, is it advisable to use some commercial fertilizer? Will it not make it too righ?

H. T. H. I think it would be perfectly proper to use commercial fertilizer on oat stub-Surely farmers can learn a valuable ble. I have always found it very profitapt to have lodged wheat if you do not Then, as it is never safe to blunder have fertilizer, because stable manure along in the dark, let us stop feeling our contains nitrogen in excess of the phosway along the uncertain highway of phoric acid and potash. Now, if com-success and turn on our lights. Let us mercial fertilizer was used that contains do it now. Let us use, if nothing more ta good per cent of phosphoric acid and than a ten-cent account book, and by potash, you would balance up the plant keeping accounts light our way down the food and will get a stiff straw and your wheat will not be apt to lodge.

COLON C. LILLIE.



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MEETING THE HAY SHORTAGE.

Hay is scarce and high in price this fall. The yield of all grass hay crops has been but a fraction of the usual amount in most sections of the country. clover crop has been short. Alfalfa, which is the standby in regions more dry has been far short of its usual heavy returns this season.

Hay is a crop that is not kept over from year to year as are the grain ing a scant amount of relishable food. It crops. Each growing season is com-plete master over the following winter's supply. This is really a sad condition as the yield is so variable in different years. The crop this year is the lightest in a decade. The city trade and shipping market is greater than ever before owing to the fact that there are more work horses that must be fed hay shipped from the country. The indications are that prices of hay will reach a very high plane before spring by reason of the city demand alone.

The farmer is most concerned with his own immediate problem. Even the man who never makes a practice of selling hay finds himself facing the problem of providing sufficient roughage for his stock. His hay crop may be only one-fourth what it is in ordinary years. We were on a farm today where last year two mows in the barn were filled and some stacked outside. This year one mow is partly filled, the other is empty, and there are no stacks outside.

To dispose of the farm stock is not practicable. Unfinished stock is a glut on the market at any time and always goes at a lower price. It would be a mere matter of buying animals to restock the place next summer at an advanced price. Neither is it profitable to starve or stint the farm animals during the winter season. Unless due heed is taken this fall to provide ample feed to carry the stock through until another crop is produced there is grave danger that the farm stock will suffer and that they may be forced onto the market and there to be sold at a sacrifice.

One way of meeting the shortage in part is by the use of forage crops. There is ample time yet to prepare the ground and to sow a patch or field of rye. This is a quick growing crop and furnishes an abundance of green nutritious feed late in the fall and again early in the spring before any of the regular crops have made a start sufficient to be pastured. Rye is greatly relished by all farm stock and it will pay better than ever before. Sow a field of it this fall. There is no particular time during the fall when rye must be sown. However, the earlier it of good care upon lambs during early is done the earlier will it be ready for growth and for this reason many a crop pasture and the greater the yield this of lambs are a great disappointment season.

Straw has a value for feeding purposes that will warrant its being saved to the utmost degree this year. Oat straw utmost degree this year. when the crop has been cut before being thoroughly ripened is very palatable and quite high in digestible nutrients and produces no ill effects. Wheat straw has but little feeding value, yet it can be used in a pinch as we did one dry year in Nebraska. If the quality is good it may be utilized to some extent.

It is from the cornfield that we must seek for the greatest relief from the hay shortage. The silo on the dairy farm or beef cattle farm is the greatest factor in making the cattle industry stable by rendering the feed question less sub- ration at this season will, of course, deject to the varying yields of different seasons. Those men who have silos will do well to fill them to the utmost. Those intention to grow the lambs and feed who are contemplating the erection of a them off during the coming winter and silo should push the work so that the sell upon an early spring market the structure will be ready before the sea- grain ration should comprise mostly of son is too far advanced.

THE MICHIGAN FARMER.

While it is

H. E. MCCARTNEY.

satisfaction from seeing his animals well cared for. Then if he has a little sur-

plus roughage he will be able to dispose

no more of a sin against the farm to sell hay than it is to sell grain, an abun-

dance of roughage for the winter should be provided on every stock farm.

FALL CARE OF THE LAMBS.

scavengers to the same extent as the

older members of the flock. While the

lambs, if given the opportunity, will roam

the fields searching for food, their flesh

condition soon shows they are not ob-

taining the necessary food required to

The fact should not be overlooked in

the fall management of this year's lamb

crop that it is from this source we must

draw another year in order to maintain

the present high standard of our flocks.

The time to develop the sheep that in the

near future must make up the flock is

right now, while the stage of development

is in its infancy. No other time in the

growth of any animal presents a better opportunity to develop the weaker qual-

ities than when the individual is young.

In a great many instances lambs that possess excellent breeding and would, if

properly managed, develop into good in-

dividuals, are practically ruined because

of the lack of the right kind of food and

produce the most pleasing results.

of it at a profitable price.

Iowa.

LIVE STOCK NOTES.

The recent substantial advance in prices for range feeding lambs was mere-ly carrying out predictions made a short time ago by well-informed sellers at the Chicago stock yards, based on knowledge of the shortage in the supply. Sheepmen who took advantage of the early ex-tremely low prices and stocked up with choice feeding lambs may consider them-selves extremely fortunate. As a genselves extremely fortunate. As a gen-eral rule range sheepmen are making their lambs fat, and there will not be a large marketing of feeding lambs this

FALL CARE OF THE LAMBS. It is questionable if any other season of the year is more trying for the lambs than during the fall when the weather is more or less varied and pastures supply-ing a scant amount of relishable food. It seemingly would appear that nature had neglected her full duty to the shepherd in thrusting upon his shoulders the re-sponsibility of tiding the flock over a period of unproductive pastures. During fall in a dry season, and es-pecially just before winter sets in, it is quite a common practice among farm-ers to allow the flock full access to all the fields on the farm that they may have more range and act in the capacity of scavengers about the premises. By this practice the flock is, of course, given a greater opportunity to search for rel-ishable food which is highly enjoyed by the old sheep. But with the lambs it is quite different. All summer they have for a limited amount of nourishment and have not acquired the habit of acting as scavengers to the same extent as the

ranges. Western range steers sometimes bring prices that are away up, as was the case in the Chicago market recently, when a consignment came from the Lame Deer range in Montana, the steers fetching \$7 per 100 pounds, or 50c higher than any other range cattle had brought since the season opened, several weeks ago. These cattle were raised by the Cheyenne Indi-ans. A car load of heifers out of the same consignment brought \$6.15, also es-tablishing a new record for range heifer cattle to date. The southern demand for cured hog products promises to attain liberal pro-portions, as cotton, sugar and rice crops are expected to reach extremely large amounts. The south has been as large consumer of the cheaper and medium-priced lines of provisions for some months.

William Kent, a large stock feeder of Nebraska, says beef is dear because stockmen are not buying corn any more for 20 cents a bushel, but are paying 45 cents this year. He says: "We pay for a lean steer \$45 and then feed it with \$20 worth of corn, \$5 worth of hay and cot-tonseed meal worth as much as \$3. The freight to market and other expenses foot up about \$5.75, so that the steer stands us nearly \$79 at the packing house."

introperly managed, develop into good in-dividuals, are practically ruined because foot up about \$5.75, so that the steer foot up about \$5.75, so that the packing foot up about \$5.75, so that the steer foot up about \$5.75, so that the steer foot up about \$5.75, so that the packing foot and process the foot the second the second the foot grant and ne pack in the foot the second the foot for good care upon lambs during early when they reach the stage of maturity and come in as breeders in the foot. It is during the fall the lambs suffer foot and are apt to get into a condition find is condition is to supply the necess for later management. The only safe-that is condition is to supply the neces for any nourishment from some other source for any norising to note the splendid result. for the spear. Just the patture of the gran for any nourishment from some other source for any nourishment from some other source for any nourishment from some other source for and even. Just the pat but there was a good yield of small grain. A Chicago packer says the quality of the hogs coming to market in recent weeks there and at other western points where the packing business flourishes inweeks there and at other western points where the packing business flourishes in-dicates plainly that the crop of hogs has been well marketed and that there will be a gap in hog receipts for two or three months. The current supplies of hogs are hardly more than sufficient to supply the large demand for fresh meats. been mostly marketed, and while early shipments netted only losses, later ship-ments enabled owners to come out with moderate profits. After the Illinois and Indiana distillery cattle are marketed a shortage of beef cattle of the best grade seems inevitable.



It is not alone through the silo that hand, if early marketing is contemplated, corn stalks may be utilized. Corn stover and a great many farmers do sell their of good quality is very nearly as valuable entire lamb crop early in the winter, it is timothy hay. How to handle the is advisable to push them along a little fodder is a problem to be settled. If faster, and a more carbonaceous ration shredded the hard, slow work of husk- will cause them to take on flesh more ing is eliminated, the stover is gotten rapidly. In such instances, it would be into shape so that it can be handled in prudent to add more corn and oats to the a barn without inconvenience, and the ration. Perhaps no grain can be fed waste from feeding it makes the best more economically than that raised upon of bedding. When fed as fodder with- the farm, and for this reason it should out removing the ears to fattening cat- comprise the bulk of the ration supplied tle excellent results are secured. How- the lambs. It will certainly pay to feed a moderate ever its actual feeding value is not inration of corn and oats, with a little bran or oil meal added, at this season of

creased.

The farmer or stockman who goes inthe year. It will save in the later grain to the winter with an abundance of feed bills and, what is more important, will will be thrice blessed. He will be in position to carry his stock through in good shorten the feeding period.

Shiawassee Co. LEO C. REYNOLDS. shape. He will obtain great personal

seems inevitable. The Pacific coast states have been drawing heavily on the Montana and oth-er western ranges for beef cattle, and this is materially lessening the numbers that will be available for marketing at Chicago and other middle western re-ceiving points this year.

-4HEINEY The Standard Veterina: se Strong and Willing ry Reme Makes the Har CURES HEAVES BY CORRECTING THE CAUSE which is Indigestion. Send for booklet "Horse Trou les." Explains fully about the Wind, Threat, Stoma and Blood. Newton Sissaforovit, Stoma ad Blood. Newton'aissafefor colt, adultor marein fo A GRAND CONDITIONER AND WORM EXPELLER \$1.00 s can at dealers, or express prepaid THE NEWTON REMEDY 00., Toleds, Ohio ABSORBINE wollen (Tissues, from any Bruis Spavin Lamene Does not Blister Dees not Bilster, remove to or hay up the horse. S Betwee Atter bottle, delivered. Book 1 ABSOEBINE, JR., liniment for mark Synovitis, Strains, Gouty or Rheumatic Bwollen, Painfal Varicose Veins. Alla Will tell you more if you write. Si and Sp at dealers or delivered. Manufactured W.F.YOUNG, P.D.F. 268 Temple St., Springfig

The 1912 R for \$1,000

(Designed by R. E. Olds)

A Temporary Price—Made to Learn if This Price Can Be Profitable

This price is as yet an experiment. It is subject to change. Never before has a motor car maker attempted so much for the money. We may find that it can't be done.

But the car itself is not an experiment. It is the latest creation of Mr. R. E. Olds. It compiles an experience of 25 years in building gas engines—12 years in designing cars.

Back of this model are the tens of thousands of cars built by Mr. Olds. It embodies all that has been learned by the oldest man in the business, by the dean of automobile designers. On it is staked Mr. Olds' reputation. Our rashest competitor will hardly attempt to criticise the car.

As for the price, our first announcement quickly swamped us with orders. We are at this writing three weeks behind. On our present output-at present cost of materials -we can keep this price at \$1,000. In any event, that's the price today at any Reo salesroom.

An Innovation

This is another attempt to keep ahead of the times. Motor car prices are bound to come down. We want to be first to strike bottom.

This is not a reflection on past pricesnot on ours or others'. The past was a period of constant development, of ceaseless change. Mistakes were being made and corrected. One's whole equipment of machinery and tools might be made worthless by one season's improvements.

The older cars, like the Reo, are standardized now. There are no radical changes from year to year. The errors have all been corrected. Costly experiments are over.

Where we once bought parts we now make them. Where we once made a few thousand cars per year we now make many thousands. There is no reason at all why motor car prices, in the largest shops, should not now sink to the minimum.

No shop in America is equipped to build cars better or cheaper than we. It is us, we consider, to set the pace. Those are the reasons for this sensational price on this new, big, stunning car.

Not Cheapened

No man will suspect that, after all these years, we are reducing the grade of the Reo car. We need hardly discuss that. No man will conceive that Mr. R. E. Olds, America's foremost designer, will forfeit his fame on a retrograde car.

The fact is, this new Reo-at \$1,000-is by far the best car that ever went from our shops. Every whit of the car-every feature in it-accords with the best engineering practice.

The engine-rated at 30 h. p.-shows 36 h. p. on brake test. Because of the top valves, it supplies more power for the cylinder size than any other engine we have ever tried out.

The axle bearings are Timken and Hyatt High-Duty. The carburetor is adapted to the present grades of gasoline.

The steel which we use is all analyzed, to know that it meets all our rigid requirements. The gears are tested in a crushing machine, under 27 tons' pressure. Our magneto is subjected to a harder test than any other magneto will stand.

Note the big wheels, the big tires. Note

the car's roominess. Note its magnificent lines. With all of our knowledge, all our experience, there is no part of this car which we know how to better.

This car was not built to sell for \$1,000. It was built to show the best we can do.

The Standard Car

From now on we shall build but one Reo chassis. That policy alone will save \$200 per car. Without it, this price would be out of the question.

The 30-h. p., 5-passenger car has become the general standard. Any greater power is excessive. It makes upkeep expensive. Few people care to pay the price of excessive size, power or room. A very large percentage of cars sold in the future will approximate this type. So we confine our factories to it.

Cars of about this size and power are sold all the way up to \$2,500. We ask you to compare any one that you wish with the Reo at \$1,000. We are willing to abide by your judgment.

Ask for Details

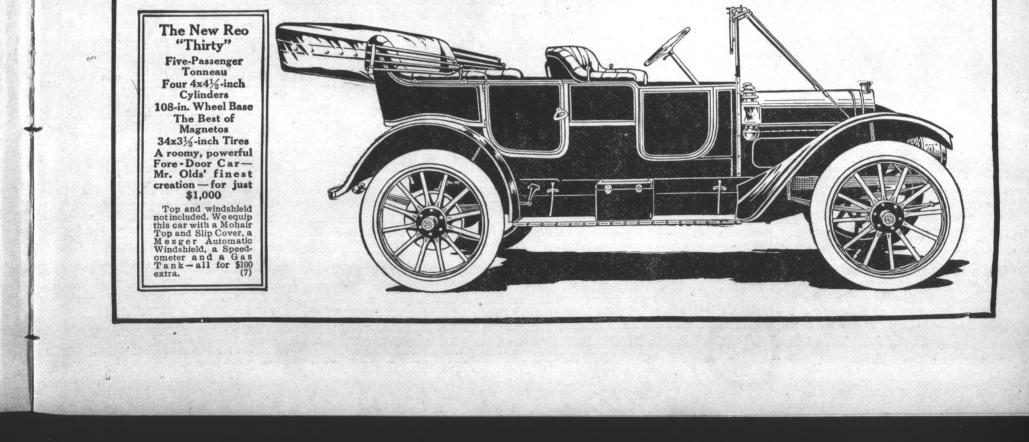
The first step is to ask us for details. We publish on this car complete specifications. We state every material, every detail of mechanism. This will help you to make your comparisons.

The car itself can be seen at any Reo salesroom, and those salesrooms are everywhere. Find out what a remarkable, up-todate car is being sold for \$1,000. It will change your ideas about automobiles.

Write us now for the facts.

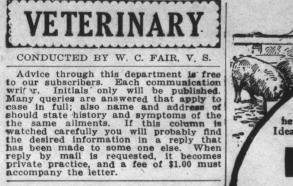
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"Thirty" Five-Passenger Tonneau Four 4x4½-inch Cylinders 108-in. Wheel Base The Best of Magnetos



198 (6) THE MICHIGAN FARMER.

SEPT. 9, 1911.



Dropsy.—I have a 12-year-old mare that has a swelling under belly, commencing at udder and extending forward some 20 inches. This swelling reduces when she is driven and is worse at one time than others. Some time ago this stocking went away for a few days, but came back again. H. E. H., Vassar, Mich.—Give her 2 drs. powdered sulphate of iron and ½ oz. of fluid extract or powdered buchu at a dose in feed twice a day. Hand-rub swelling twice a day. She should have daily exercise. Warts on Lips.—I would like to know how to treat a colt that has warts on lips. He is two years old and I am going to break him this fall, but am afraid the bit will irritate them. A. L. D., Mer-ritt, Mich.—Cut off those that have necks and apply acetic acid to the flat ones once a day. Chronic Lymphangitis.—For the past

ritt, Mich.-Cut off those that have necks and apply acctle acid to the flat ones once a day. Chronic Lymphangitis.-For the past three years my horse has had a stocked hind leg, but it has never seemed to af-fect him during hot weather until now. If there is a remedy for such an ailment I would like to know what it is. E. S. Hart, Mich.-It is well to keep in mind that high feeding on grain and no exer-cise is the most common cause of lymph-angitis. Give 1 dr. of iodide of potash at a dose in feed twice daily for ten days, then give the medicine once a day, or as often as necessary. Hot fomentations have a good effect when applied to a ten-der and inflamed leg. Good care, regular exercise, feed lightly on grain when idle, bandage leg for two hours after work and hand-rubbing leg will have a good effect. Goitre-Cough.-I have a two-year-old heifer with first calf that has two bunches on neck one on each side, but they are movable. She also coughs some but seems to be in good health and gives a nice mess of milk. F. J. C., Hudson, Mich.-Give her a dessertspoonful fluid extract oplum and 1 dr. iodide of potassium at a dose in feed twice a day. Apply equal parts tincture of iodine and spirits cam-phor to bunches twice a day for three days then apply once a day for the days.

photo to bunches twice a day for three days then apply once a day for the days. Tetanus (Lock Jaw).—I had a colt com-ing two years of age that was all right in the evening, next morning he acted strange, held head up high, tail some ele-vated, walked stiff and acted as if chok-ed. I called the Vet, who treated him for acute indigestion, but later discovered with hypodermic syringe and continued treating him every few hours, but he was unable to eat or drink and was suffering so much pain that we shot him. I have other valuable colts and live stock which I am afraid might become diseased, if it is a contagious ailment. E. S., Grass Lake, Mich.—The tetanus bacillus makes its way into the body through a skin or fiesh abrasion wound. The most common abode for this germ is in garden earth, barnyard filth and fertile soil. If there are no wounds on the lower parts of your live stock they are in little danger of tak-ing lock jaw. This is a fatal disease; however, some mild cases do recover, but the animal usually suffers more or less for 21 days and sometimes longer. In my practice I usually give tetanus anti-toxine, which seems to prevent horses taking lock jaw from wound infection. This preventative is not expensive and I regard it as good practice to administer it, Your Vet, did perhaps all anyone could do for the case, for when an animal cannot eat or drink they must die from starvation, if from no other cause.

The best demand in the Chicago mar-ket for stocker and feeder cattle of the better class has been coming from farm-ers in Illinois, Indiana and Ohio, and considerable numbers of heifers have been taken to place in feed lots.

been taken to place in feed lots. The Big Black Society of America has been incorporated at Lexington, Ken-tucky, by seven breeders of this breed of bacon hogs. The purpose of the society is to bring over from England the breed known under the name of the Big Black pig. The breed has been introduced into this country only recently, but it has been raised in England for more than 100 years, and it is very popular, accord-



POLAND CHINA SPRING PIGS from large styled stock. Also dairy bred Shorthorns, both seres, all ages, prices low. ROBERT NEVE, Pierson, Mich.



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

POULTRY

THE FUTURE OF EGG VALUES.

As we lay our plans for the coming year, with regard to the size of the flock we intend keeping, this question naturally suggests itself: What are the prospects for the coming year? It is a question which has to do with determining the size of the flock and the number of fowls we sell off.

There was a natural disappointment at the slump in egg values this season. This had inevitably to come. With prices constantly increasing from year to year, a tight so that cold air cannot come through check had to come sooner or later. It came this season and eggs have brought about 30 per cent less money this season than last.

-the agitation against storage methods, and a fear of the effects of "reciprocity," so called, the first with some cause, the second mostly "bugaboo," in my opinion. In the end the consumer will, as usual, "pay the fiddler," as the losses sustained during the past season, and the threat of drastic legislation, had the effect of making the storage men prudent. The result is that the "pack" of storage stock will be sufficient to see the season through, and, unless the hen responds nobly, prices will soar to rarefied heights before spring arrives.

The ever-growing carelessness in handling the crop in its course from the farmover." Be that as it may, the market of double walled houses. slumped. Then this "pact" came up, our If you plan to use ca ered that the overfed and plutocratic agriculturist is too prosperous and should be checked. free trade in farm products and, of would increase the light very materially. course, eggs slumped some more. However, this be sufficient. It is impossible to get too far as eggs are concerned.

The competition we fear from Canada will not come from eastern Canada but from the great agricultural region of the west, a region of great ranches in which there are not enough hens kept to supply a tithe of the demand for eggs nor they be kept. It is Ontario and Quebec and the minor provinces of the east that is in the orchard. They very seldom fly produce nearly all of Canada's eggs, and up into the trees to destroy the apples even they produce only a small quantity and they do worlds of good to themfor export.

that I am trying to defend this little "packet" which our President has the chickens are turned in. prize

and the contraction of the meat supply paign. The only objection to this plan is in conjunction with meal, using equal THOROUGHBRED S. C. BROWN LEGHORNS. A fine lot of COCKERELS at right prices, LEWIS T. OPPENLANDER, R. No. 4, Lansing, Mich. seems to grow more acute year by year. that the chickens do not like to give parts of each and driving off by the aid As meat goes higher eggs follow until the up roosting in the trees, but feeding meat level of prices is reached. Of in or near the houses a few times ac- for use in summer. of shorts. A mash thus made is suited R. C. B. Leghern Cockerels -Kulp strain, the best in season. O. W. WAITE, Gobleville, Michigan. course, local causes will bring occasional customs them to their old quarters. setbacks, but in my opinion, the average In addition to the fallen fruit it is Canada. W. R. GILBERT. SINGLE COMB BLACK MINORCAS A few more pull-st to spare. Eggs \$1.50 per setting. R. W. MILLS, Saline, Michigan. price of eggs will continue to rise. best to feed a little corn or wheat once The use of powdered eggs by bakers is With all the advantages now to be a day with plenty of the feed common being discouraged by the United States had on the farm, the onward trend to be a day with plenty of the feed common being discouraged by the United States city continues. The farm is, and will to waste in the country every year that continue to be, the great producer of might profitably be used for the chickens. been very irregular. Dealers complain SILVER, GOLDEN and WHITE WYANDOTTES, Eggs \$1.50 per 15; \$2.50 per 30. A few White Roosters left, circular free. C. W. Browning, Portland, Mich. LILLIE FARMSTEAD POULTRY eggs. Desertion of the farms means but The refuse cabbage and tomatoes, sour one thing-lessened egg production, the milk, curd, small potatoes that could B. P. Rocks, R. I. Reds, W. Wyandottes and S. C. Leghorn eggs for sale, 15 for \$1.26 for \$1.50; 50 \$2.50. OOLON C. LILLIE, Coopersville, Mich that it has been necessary for them to scrutinize consignments much closer than natural and inevitable consequence of easily be boiled, turnips and many other has been the custom in former years. which is higher values. Think you that vegetables are relished by the fowls. The The receipts of eggs in New York for WHITE WYANDOTTES-Useful and beautiful. The kind that weighs, lays and pays. A. FRANKLIN SMITH, Ann Arbor, Mich. this "pact" called reciprocity, will great-fact that chickens are bound to ravage the first of January till the 15th of Au-ly accelerate the "back to the farm" the garden, should teach us to plant gust amounted to over 3,900,000, while for movement? On the contrary, it will have some green food for their especial benefit. the corresponding period of 1910 slightly The receipts of eggs in New York from DOGS. a tendency to drive more than one half- Keep plenty of fresh water under the over 3,300,000 were received, making the HOUNDS FOR HUNTING Fox, Coon and Rabbits. All 2-cent stamp. W. E. LECKY, Holmesville, Ohio. hearted farmer to the city. trees so that it will be reasonably cool, receipts for the current year exceed those Feeling sure that Canada will never be and hollow out several shallow places to of last year by 600,000 cases in round NOW WRITE W. J. ROSS. Rochester, Mich., for those beautiful sable and white and tricolor Collie Puppies. Finest breeding, natural workers. a great egg producing country, I believe hold dust and gravel. It is well to have numbers.

THE MICHIGAN FARMER.

Ohio.

the economic effect of reciprocity upon two sets of pans or shallow vessels-one have nothing to complain of as regards from pans than on the ground. egg values in the near future, and I, for one, strength of this belief.

Isabella Co. WM. J. COOPER.

Will ordinary siding be warm enough or a winter poultry house, or would you ne it with one-ply roofing? Will three indows, each 3x6 ft., produce light windows, each 3x6 ft., produce light enough for a 12x30-ft. house? Will can-vas windows be warm enough for winter? Kalamazoo Co. G. H.

A single course of siding will probably be satisfactory if the siding is perfectly and create drafts. Putting on a good covering of tarred building paper before nailing on the siding will make it safer. Of course, the house will be warmer if a Two things contributed to this result lining is nailed to the inner edges of studding, thus leaving a dead air space between the outer siding and the lining. However, from tests made at the Michigan station it would apear that such double walls are not absolutely essential, even in this rather severe climate. The tests referred to were made to determine the effect of warm and cold houses upon egg production. Three flocks of 70 hens the front opening in a henhouse it would each, of the White Leghorn breed, were be properly ventilated. That is, if muslin kept in houses 14 by 24 feet. The number is used in the place of window glass it of eggs laid in the different houses was, during the first year from November to them light, and at the same time allow April, in a house double walled throughout and with a 4-inch aid space, 2,850 to give fairly good ventilation. eggs; in a house double walled only on er to the consumer made it necessary that the north and east sides, 3,128 eggs; and

A well-fitting window, containing glass, included the egg, consequently The three windows you mention will not last slump, or cause of slump, is, I think, much sunlight into a poultry house. We unwarranted, for the present at least, so suggest that you put in the three windows as planned, fitting the sash with glass, and alternate them with three similar windows to contain sash covered with canvas.

GIVING FOWLS A CHANGE.

The best place for chickens in the fall canada, in my opinion, will never be a fruit and insects. If they have a tengreat egg country. The winters are too dency to fly, cropping one wing will keep long for her to compete successfully with them on the ground. Even if all the her southern neighbor in this field. Not fallen apples can not be spared it is easy to pick up what are needed before poultry, and as phosphates account for

prize "packet" which our rresident has the chickens are turned in. so skillfully tied with silk ribbon to con-ceal the "lemon" contained therein. I fowls will roost in the trees. This gives tain proportion of it. It is also useful consider it no less than a crime against an opportunity to clean up and fumi- for laying hens and if used occasionally the farmer, but I for one am not frightgate their quarters before cold weather as a change and to add bulk to the ened as to its results on egg values. and is a blessing to the fowls tired of morning mash, the fowls will be greatly I look for high prices during the late hot, dusty coops. Burn all stray in nest benefited by it. winter and early spring months; perhaps boxes and, perhaps burn the boxes them-AIN. In using bran, however, it should never they will come even earlier than this. selves as they are apt to harbor lice. It be mixed with other meals in a dry state One thing is certain. Our population is is cheaper to provide new nests than as such a mixture is liable to set up a (14) fast increasing and constantly moving medicine and care, for sick fowls. EMPIRE MFG. CO., Box 89L Quincy, Ill. derangement of the digestive organs owcityward. These people all consume eggs Burn sulphur several times in the ing to its irritating nature. Bran before "EGGMAKERS"-S. C. Brown Leghorn Cockerels. » State wide reputation. I can suit you. Write me. Wm. J. Cooper, Mt. Pleasant, Mich. but they do not all produce them, and as houses, whitewash the interior and being used should be scalded with boilthe percentage of consumers increases in roosts, and thoroughly clean the floors. ing water, and left for an hour at least its relation to producers, eggs are going Then allow the doors and windows to to cook and swell. A little may then be EGGS: EGGS: EGGS-White & Buff Orpington. White & Barred, Rocks, Black & White Minorcas. White & Buff Leghorns, Rose & Single Comb Reds, Houdans & White Crested Blk Polish. H. H. King, Willis, Mich. consistently higher. stand wide open and you will have an added to the soft food of growing chick-The meat and egg crop go hand in hand ideal place to begin the winter cam- ens, or it may be used for laying hens

eggs will be to ultimately increase val- for water and the other for soft feed. ues. I am firmly convinced that we will It is more economical and cleanly to feed

This plan also gives an opportunity will build for the future on the to clean up the yards which the fowls have occupied all summer. Plow them as soon as the chickens are out and sow to wheat and rye. Even if little of the SIDING A WINTER POULTRY HOUSE. grain comes up it will not be wasted, for the chickens will dig it up when returned to the enclosure. In this way the soil is purified and rejuvenated, while countless insects are destroyed. Corn thickly planted, is also good but is soon destroyed by frost of course, while wheat and rye last until freezing weather begins

VENTILATING A HENHOUSE.

H. R.

Would like information in regard to ventilating a henhouse, according to King system. House has all openings in front; they are covered with cotton cloth but the house got very damp last winter. I have come to the conclusion that I must have better ventilation and any informa-tion along that line will be gratefully re-ceived. ceived.

Ottawa Co. H. T. H. I had supposed from all the information that I have been able to gather on the subject, that if we used muslin over will protect the hens from draft, give a sufficient amount of air to pass through

It is a difficult matter to ventilate a henhouse by the King system. In order something be done. It got to be so that in a single-boarded house, 3,022 eggs. In to ventilate a cow stable by that system a good egg purchased at the corner store, the second year, from December to the stable must be very tight. You have was the exception, and the continued March, in a house double walled on all to control the air current. Now, if you "holler" of the consumer reached the sides, the yield was 2,540 eggs; in the have the front openings in the henhouse high places and a halt was called. The house double walled on two sides, 2,379 covered with muslin you cannot control storage people were called to account, eggs; and in the single-boarded house, the air current, and the air is just as apt and it would seem that they were mostly 2,334 eggs. The conclusion reached was to come down the ventilating shaft as it to blame, since investigation brought out that there was not enough difference in is to go up. It is barely possible that the fact that eggs were sometimes "kept the three houses to justify the building your front openings are too low down to give the desired ventilation and if this is If you plan to use canvas instead of so a small opening, or several small opvery discerning President having discov- glass in the windows, it is essential that enings, can be made up close to the roof, the rear and end walls be perfectly tight. which will allow the air to pass out and furnish ventilation. As long as we no This pact plainly meant in the forward part of each end wall longer desire to keep henhouses extremely warm in winter it doesn't matter so much if we have the temperature quite low. In the case of cow stables we don't want the temperature to go below 40 degs., but in henhouses we no longer like warm temperatures as some people very have found that hens do better if not kept in too warm a place. We can have an opening up next to the ceiling, or next to the roof, which will give ample ventilation, and it matters little if it does make the house a little bit colder. I believe it would be an unnecessary expense to install the King system of ventilation in a henhouse as I don't believe it would work.

WHEN TO FEED BRAN TO FOWLS.

Bran is rich in phosphates when compared with many other foods fed to the formation of bone, growing poultry



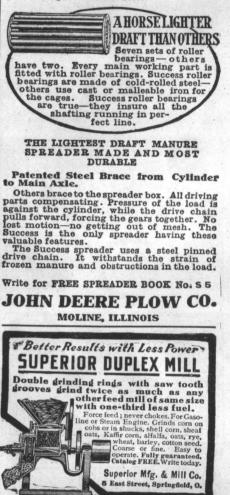
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OHN FRAZEUR tells how he made \$840.00 in one season with a Success. Spreaders do hard work. Cheap machines made of pine and iron lose money, give trouble and die

soon. Success frames are second-growth white ash and oak, mortised, bolted and trussed-double sills through the middle.

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

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





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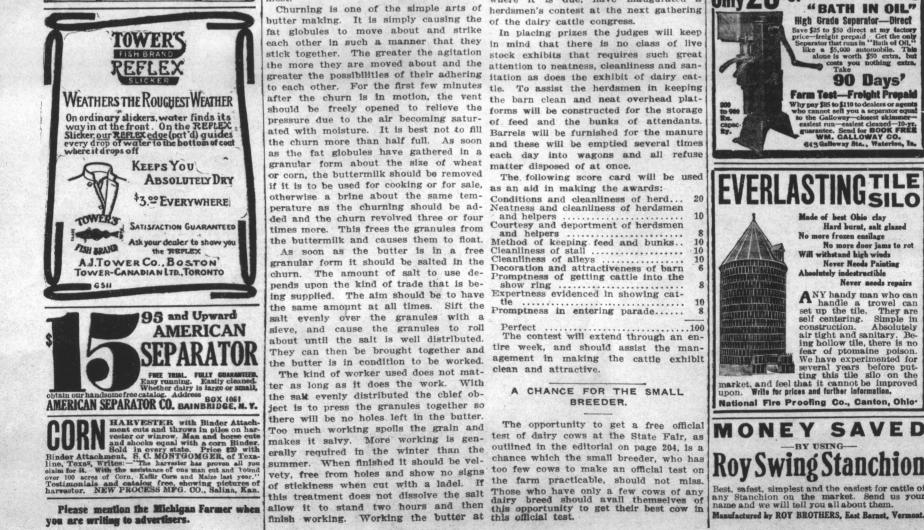
Tour catile will repay many times the expense nurred in making 'em comfortable and keeping a clean. Our Stanchlon Catalogue will tell you who do it, will prove to you conclusively that disc Stanchions are the best; will tell you all thout removing mittens. When open they can tering but are hold rigid for animal to enter-ad they wing freely. Only amooth, polished rdwood touches the animal - ne divers-no intera- no rust - no racket. Blind bolted at ais-always tight there. They will hold any-mg from the strongest; unruly bull to the meek-"runt" in the herd-will hold them clean and noriable. Save your time, temper and d by installing Wilder Stanchions. Made from seted hardwood and in either "Fin" or "Chaia". feed by ins

WILDER-STRONG IMPLT. CO. MONROE, MICH. Box 13



Made to stand the hardest wear-to give ample protection to the horse-to keep out the severest cold-roomy enough to ensure perfect comfort. 5A Horse Blankets last twice as long as blankets sold at the same price-therefore cost only half. Made in the largest horse-blanket factory in the world, where every piece of yara and warp is select-ed, spun and woven. Ask your dealer for 5A Horse Blankets-he buys of us direct and charges we less herause there's no middle. charges you less because there's no middle-man's profits to pay. If your dealer cannot supply you write us.

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THE MICHIGAN FARMER.

THE DAIRY

CONDUCTED BY COLON C. LILLIE.

CREAM RIPENING AND BUTTER-

MAKING.

Ripening of the cream, or more plainly

speaking, souring of the cream, is one of

the fine arts of butter making. Cream-

ery operators usually buy a commercial

starter, which is nothing more or less

than a pure culture of lactic acid germs.

For the dairy butter maker, as satisfac-

tory results may be attained by using

pure skim-milk that has been kept at a

temperature of about 80 degrees until it has a quick, sour taste and is about ready

to coagulate. Some butter makers use sour cream or buttermilk that is kept over from a previous churning but such starters are more apt to get off flavor

than the skim-milk starter. From eight to 10 per cent skim-milk starter should be used when the cream tests above 28

If the cream is kept at about 65 degrees during the ripening period and

stirred frequently it should be gradually

cooled at the end of 12 or 13 hours and

No fixed rule can be followed in churn-

ing different creams. If properly ripened

cream containing 28 to 30 per cent fat

enters the churn at the right tempera-

ture. This will give an exhaustive chun-

ing and the butter will be in ideal condi-

tion to handle without injuring its tex-

ture. Scald the churn and chill it with

the wood so the cream will not stick to

churning room about the same as the

churning temperature. When putting the

cream into the churn strain it to break

should be added at this time. The quantity to use will depend upon breed of cows, time of the year and the strength

of the coloring. By testing the cream

pounds of butter-fat for the churn over-

run it is possible to add just enough col-

at all seasons. High coloring is not ad-

water before putting in the cream.

Try and have the temperature of the

or 30 per cent fat.

cold

it.

most.

the right time and straining the cream as it goes into the churn should prevent mottles in the butter.

The question of marketing good butter depends upon the trade that is being supplied. High-grade dairy butter will find a ready sale, provided a man puts his product before the best class of buyers and keeps it uniform in quality at all seasons. People are slow to change brands of butter when they find a dairyman who makes butter to suit their tastes.

New York. W. MILTON KELLY.

SHEET OR STEEL LATH FOR LATH AND PLASTERED SILO.

I wish to ask through the Michigan Farmer for experience with sheet lath and plaster silo. Are they a success? How long will the plaster last with good care? How many coats of plaster for a first-class job? How thick ought it to be? How fine should sand be made? Is there any difficulty in cement mortar, 1 to 2, sticking to sheet lath? Does it need hair or other material, such as ground lime or wood pulp? Would this weaken lasting quality of walls? I have silo nearly built, ready for plastering. The silo is built of 2x4 oak studding, 12 inch center to center. Lath on inside. Sheet lath %-in. thick, matched. Inside diameter 10 ft., 35 ft. high; sheeted on outside with 29 gage galvanized sheet steel. I wish to ask through the Michigan steel. Calhoun Co. W. H. T.

While I have never had any experience Some of the best butter makers ripen with sheet or steel lath for lath and plas-cream until it contains about five per tered silos, I know of their being used tered silos, I know of their being used and they are giving entire satisfaction. In fact, there is not the slightest reason in the world why they shouldn't be satisfactory. The steel lath are certainly stronger than wooden lath and this will add strength to the silo and as long as they are covered with mortar and not exposed to the weather at all, there is no danger of their rusting and they will should churn in 30 to 45 minutes if it last indefinitely. Now, with regard to using hair or wood pulp or anything of that sort in the mortar, it is not necessary; use fine, clean, sharp sand, two parts sand to one of cement, and put it on one-half to three-quarter inches thick. It will stick. This mortar ought to last This will freshen it and fill the pores in 15 years. It did on one of my silos. Of course, we washed it about every other year with cement wash. Should the plaster get porous all you have to do is to plaster it again right over the old plaster and you have a silo as good as up the lumps. If coloring is used it new.

A HERDSMEN'S CONTEST.

The success or failure of a herd in the and adding one-sixth to the number of show ring is due largely to the care and handling they have received in the process of fitting. The Iowa State Dairy Asoring to keep the butter a uniform color sociation, realizing that the herdsman is directly responsible for the condition, of visable, but uniform coloring is desired his herd, and desirous of placing credit where it is due, have inaugurated a

SEPT. 9, 1911.



WHEN TO CUT CORN FOR SILAGE. necessary. It is no part of the stall. If

I am a reader of the Michigan Farmer and enjoy reading it very much. I would like to ask your advice on how I can tell when my corn is fit to go into the silo. My corn is turning yellow and the silk is dry and the corn is down and will be slow cutting. Will I have to cut the corn the same day when I fill my silo? I am a beginner and never put up any silage and the only one in the neighborhood that has put up a silo. Monroe Co. Some of the lower leaves

turn yellow, especially in a dry time, before the corn is anywhere near ripe enough to go into the silo, especially is they must lie upon this clean bed. this true if the corn is planted pretty thick. It shows more a lack of sunnight enough at first to step forward and lie and a lack of moisture than it does ma-turity of the corn. Corn should not be cut off for silage until it is fairly well is always behind the 2x4 and they have matured. Of course, if late corn should to be educated and sometimes it takes a be cut by a frost, the sooner you get it little bit of patience. But I do not think into a silo, the better. Where the corn you will find a cow but what can be edhas a normal growth under normal conditions the earliest ears ought to be about ripe enough to cut up and shock if you were going to husk the corn and crib-cure it, and some of the later ears when they get nicely past the milk stage and the greater portion of it would be glazed and commencing to dent. Now that is just about the right time, the ideal condition of the corn, to cut and put into the silo, because at that stage of its growth it contains the largest per cent of digestible nutrinets. If you leave it very much longer some of the digestible food nutrients in the plant are changed, the cellulos turns to woody fiber and becomes indigestible and if you cut it very much earlier than this it isn't properly matured so that you get the full food value of the corn.

In extremely dry times or during an extreme drought when the corn is fired by dry weather and hot winds, it might be advisable to cut it even before the ears are formed but such conditions are unusual, at least for Michigan. In the west sometimes the hot winds wither up the corn before it is developed and the only way to get anything out of it at all is to cut it, even though it is not more than half mature. But in Michigan such instances as that are extremely rare, if they ever happen.

It is not necessary to remove the corn to the ensilage cutter as soon as cut, but to their valu-it can be left on the ground till the fol- igan. Allegan Co.

THE MODERN COW STALL.

Will you kindly give me what infor-mation you can in regard to the model cow stall? Washtenaw Co. J. S. B.

getting very much food nutriment out of To get a correct and satisfactory idea of the model cow stall one must see one. them but they are appetizing and make I tried to explain this cow stall in the the balance of the food taste better. They assist in keeping the digestive tract in Michigan Farmer a number of different times and I don't believe I ever succeedbetter condition, to stimulate the flow of ed in making myself understood thorthe digestive fluid, and they are a good thing in this way. But who would think oughly. The model cow stall differs in principle from every other kind of a stall of making a meal out of apples. Why, a man could eat two or three apples before that I ever saw or heard of. One feature about it is the double manger. It dinner but he wants his dinner just the same and I have known men, and I have has a manger in which to feed silage or roots and grain and then another mandone it myself, eat several apples just before going to bed, with no bad results, which simply goes to show that there ger above the first in which to feed hay. Now, I like this because if you want to put the hay in at the same time you isn't very much food value in apples. feed the ensilage and grain, you can do. Consequently, when you feed apples to so and the cow can eat it at her pleascows you must not expect the same re-All the other kinds of cow stalls turns that you would from the same ure. you have to give the cow her grain and amount of ground oats or cottonseed meal or clover hay, because the food valsilage and then wait until she eats that ue isn't in it. But to feed them a small up to feed her the hay. For this reason feed of apples night and morning would I like the other plan the best. The model be a good thing for the cows and cercow stall, when it is properly adjusted for the length of the cow and the cow tainly so if you didn't have any other succulent food, but they would want their has been educated to lay in the stall where she ought to, will keep cows clean. grain ration and their roughage ration There is no question about this. There just the same. I would not substitute won't be a stable stain on them from one apples for any portion of the ration but year's end to the other. The principle give the apples in addition to the ration securing this result is entirely different and I think possibly that you would get from that of any other stall. A 2x4 is a better flow of milk. Your cows cer-placed edgewise in front of the cow's hind tainly would keep in finer condition and feet and when she lays down she must feel better, and in this way it will pay, lie in front of this 2x4 or else lie right but it would take a good many apples to amount to as much as 100 lbs. of corn across it. Now, between this 2x4 and the manger the space is supposed to be filled meal or ground oats. Apple pumice is with bedding, which makes a sort of sometimes put into silos the same as you raised platform for the cow to lie upon would corn silage, and preserved in this way and fed, and people report that they and when she lies upon this she is above get splendid results from feeding it. Apall of the filth of the stable and keeps herself clean. When she gets up the hay ple pumice would be richer in food nutrimanger which is constructed of slats that ents than the apple itself because, in slant back towards the cow, causes her making the cider much of the water is to back up and consequently she does taken out and the apple flavor with a not get her hind feet on her clean bed. little of the sugar but the principal parts When she lies down she has got to step of the food nutrients, the protein, the up and lie on this raised platform (her carbohydrates, and the fat remain and bed) and she consequently moves forby feeding this pumice judiciously the ward out of the filth. same as we feed corn silage one can get Now, with the model cow stall you very good results from it and it acts as don't have to have a gutter. It is not a succulent food the same as corn silage.

you have a gutter it is merely for the convenience of having some place to store the manure until you haul it out. If you do not have it you will have to haul out the manure oftener.

THE MICHIGAN FARMER.

The cow is tied with a chain around the neck, or around the horns, or with a halter, or with almost anything that you wish to. They can be tied to the bottom of the hay manger or to either side of the stall. They do not have to be con-Some of the lower leaves on corn will fined very closely with the hitch. They can be given all the liberty that a cow can have, and yet, when they lie down

Some cows don't seem to have sense upon this clean bed. They lie right down over the 2x4 and get into the filth which ucated to lie in the proper place. If you will get a big stone with a flat side and put it just behind the 2x4 the cow is compelled then to lie where she ought to. She will get right down on this stone but she will find it so uncomfortable that she will make up her mind that the only way to rest comfortably is to step ahead before she lays down. You can keep the stone there until she gets the habit of stepping forward before she lays down and then you can remove the stone. Probably 90 per cent of the cows know enough to step forward and lie upon this clean bed without any inducement but the other 10 per cent will have to be educated. Considerable care must be taken in adjusting this 2x4 to fit the length of the cow. For a small cow you must move the 2x4 ahead. She requires a short bed, and for a long-bodied cow, of course, it must be adjusted to fit her. If this is done you can keep the cows clean and comfortable and yet they have all the liberty that cows can possibly have and still be confined in a stall.

APPLES FOR COWS.

Though a constant reader of your pa-per for over four years I have never no-ticed any remarks on feeding apples to cows. As I have a lot of wind-fallen ap-ples I would like to make use of I would like to hear from someone who knows as to their value for dairy cows in Mich-igan.

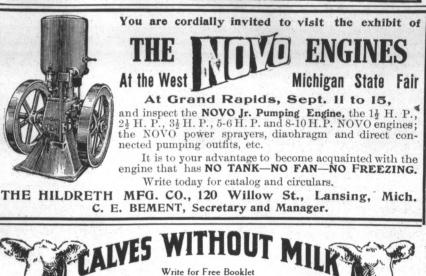
"SCOTT." Apples haven't a very great food value. They are mostly water and flavor and some of them haven't any too good a They are considered more as a flavor. relish than as a food. Human beings don't eat apples with the expectation of

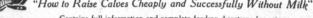




Give it to them with Louden's Sanilary Stalls and Stanchions. You will be repaid over and over by the increase of both quantity and quality of milk and the satiafaction of having a barn equipped with the most economical, and up-to-date sanitary han equipment made. Louden's Sieel Stalls are made of tabular steel. Supplement made practically indestructible. Once installed they are there for a life-time. They afford ample ventilation, light and perfect sanitation. They have no flat surfaces to catch and hold dirt. Made for either cement or wooden floors. Louden's Stanchions—are the perfect stanchions, affording the cow almost the same freedom when feeding or elexping as if free, yet which gived hand, yet is completely 'cow prof.'' Made entirely of steel. No wood to harbor dirt, —no sharp corners with which we finish Louden Electro Galvanizing Process with which we finish Louden Electro Galvanizing Process with which we finish Louden Electro to the ordinary hol process galvanity. The Louden Electro to the ordinary hol process galvanity. The station before equipping your barm may as galvanity and is appoint-which is far superior to the ordinary hol process galvanity. Investigation before equipping your barm any as the disapoint-first, than to experiment with inferior equipment. Wite for catalog of modern labor and moneysaving barm equipment. LOUDEN MACHINERY CO. 603 Broadwary Fairfield, lat.

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PEACH YELLOWS.

This is a subject which most writers shun, probably because no one can give a cure or even a sure preventive, or tell what it is or when and how it spreads, so there is not so much left to tell. I will not attempt to solve any of these mysteries but rather to give some symptoms that will enable anyone not familiar with the disease to detect it and something of our experience in attempting to control the disease

Just what the yellows is scientific men do not tell us. It is supposed to be a bacterial disease, the bacteria diffusing themselves through the sap, and the trees becoming inoculated through the blossoms. stomata of the leaves, injuries, or other means. However, the bacteria have not been isolated, and those who have given the subject the most study will not commit themselves as to the exact nature of the disease or just how or when it is Some growers believe that it spread. is spread only at blossoming time, but this belief is not held by most growers, the majority believing that it may spread at any time. Just how we do not know, but no doubt bees and birds are instrumental in carrying the disease and probably it is transmitted by means of prun-

ing tools and other orchard tools. have not seen any proof as to whether it is or is not carried by winds without some transmitting agent. One thing is certain, it spreads and spreads rapidly, and it is freakish in its manner of spreading, not always taking trees in rotation but affecting one here and there in different parts of the orchard.

About the only definite symptom of the yellows on trees not bearing fruit is what is called "fungus growth" which consists of twigs or shoots usually of a slightly paler color and with much narrower leaves which may shoot out from almost any part of the tree during the summer, but usually its first appearance is from the main branches near the trunk. These shoots divide and subdivide more rapidly cial form. than healthy ones, making a rather bushy shoot as they lengthen.

If the tree is bearing fruit there are several additional symptoms that may be noted. One is the premature ripening of fruit on the affected branch or tree. The fruit may ripen from a week to a month earlier than it should, but it usually ripens unevenly, one side becoming soft while the other remains green and hard though the skin may have considerable color. On a tree just affected one branch may have ripe peaches while another will have small green ones. The following season if the tree it allowed to remain the entire tree will probably be affected and the fruit worthless, so it may as well be removed anyway even if it did not act as a means of spreading the disease

Aside from premature ripening, the yellows fruit usually has a higher color, and the color may extend to the pit in streaks making red marks or lines radiating from In size it is variable being usthe pit. ually smaller than normal, but often on branches but recently affected the fruit is above normal size and color. The larger fruit from recent infections may not be lacking in flavor perceptibly, but as soon as the disease has obtained a good hold on the tree the fruit will be tasteless or bitter, at least the smaller ones will. The second year it will be small, shrivelled and worthless.

If the above condition of the fruit is and vigor of the trees would determine wait for it. Good fruit is at present sellcoupled with the fungous growth men-, to a large extent the kind and amount ing on the city markets for \$1.25 and tioned above, one is certain that the tree of fertilizer to add. Ordinarily you would more per bushel. The writer sold ordionly need to supply the trees with potash nary apples at \$1 per bushel the past is affected, but either symptom is a good indication. A yellow appearance of the and phosphoric acid since cover crops can week and the parties came for more. Two foliage may or may not be present at be depended upon to furnish the nitro- weeks ago apples of the same quality first, so the name is rather deceiving, but gen, unless the spaces between the trees could be purchased for less than one-half later the yellow appearance of the leaves are to be used for other purposes. Clo- this figure. We note that the New York vers, vetches, peas and other leguminous market was glutted in the same way and will be noted. The only preventive that has proven to crops will provide nitrogen cheaper than prices sunk to an extremely low point, be of worth is the one of eradication, it can be secured in any other manner but that now the early apples are out of and we would recommend this way of sethe way a better trade is going on. that is the taking out of affected trees The question naturally arises as to as soon as one is sure they are affected. curing it. But since you have not sown such a crop this fall it would be well to what figure the seller should adopt as The top may be cut off and burned, and the stumps dug later, when the ground add a complete fertilizer (one containing a fair ground for contracting his fruit. We believe that, speaking generally, the is soft, but they should not be allowed to potash, phosphoric acid and nitrogen), fall fruit should not get out of the growfor the coming season. Your dealer can remain and sprout up again. Where only er's hands upon a lower basis than three a small branch was affected we have tried provide a brand testing about two per dollars per barrel. This was the general cent nitrogen, eight per cent phosphoric cutting this off together with a large contract price in the principal sections at amount of apparently healthy wood, but acid and five per cent potash. Apply this in every case the balance of the tree early in the spring at the rate of 300 to the beginning of the season a year ago. 600 barrels per acre, depending upon the The conditions certainly warrant as high would be affected the next season. It is possible by cutting off the affected fertility of the land, fertilizing the land price this year for the late apples and we portion of a tree in fruit to leave the out from six to eight feet away from the do not think growers will suffer if they tree and obtain some fruit from the non- trunk of the trees. If other crops are to are slow in contracting.

affected portion, but this may be at the be grown in the space give the whole ease is spread we would know better what of muriate of potash or wood ashes, and stance if the disease is spread only at blossoming time it would not be necessary to remove affected trees until the fruit humus, which is an all-important matter was removed from the unaffected part. in the proper feeding of fruit trees But this we do not know and the safest method where there are many healthy trees at stake is to remove all trees as soon as they show definite signs of the spring.

disease. Our experience in controlling the yellows has not been very satisfactory. In over in a cellar. spite of the promp removal of affected trees the disease has continued to spread, and in three years' time has taken an entire orchard, and has started on a younger one. Of course it is difficult to Mr. Hutchins in which he warned apple combat the disease single handed. We have no inspectors, and there are many trees in the neighborhood. Possibly if we were isolated or had inspectors who would look after the removal of trees in the neighborhood, the results would have been better. It is also possible that the yellows is more virulent in some localities than in others, or that it will be less virulent after it has been here for some time, and like the old fashioned potato bug lose its hold.

Calhoun Co. S. B. HARTMAN.

SAN JOSE SCALE-TWIG BLIGHT.

Does the San Jose scale affect the tree or the leaves or the fruit, or all? We have a few trees that I think are affected, there being grayish scales on the bark, leaves and fruit. Some of the branches seem to be dying and fruit withering and decaying. What shall I do for these trees and when? I also notice in parts of the orchard not af-fected with this scale, that a good many limbs seem to be dying, especially ow north sides of trees. I am cutting out these branches. Is there anything else that should be done? Hillsdale Co. H. J. M. San Jose scale attacks all parts of the

above the ground-trunk, limbs, tree twigs, leaves and fruit. Spray these trees before growth starts next spring, with a lime-sulphur mixture, which can be made at home or secured in commer-

The dying twigs are probably the re-sult of twig blight. This disease is common only in favorable years. It was Cutting out the affected this season. limbs is about all that can be done. Cut well below the parts diseased.

SECOND GROWTH OF OATS AS COVER CROP.

I set a young orchard this spring in a plece of ground that was sown to oats, and the oats are taking second growth. Will this answer for a cover crop for the orchard? Or would it be better to clip it and leave clippings on the ground? I would like to know what kind, and how much commercial fertilizer to use on this orchard, and when to apply it. I have not sufficient barnyard manure. Would it be advisable to set apple trees in this it be advisable to set apple trees in this latitude in the fall? Can peach trees be kept successfully in a cellar over winter? Clare Co. W. D. S.

It is now too late to think of sowing another cover crop, hence this second growth of oats should be left to protect the trees during the winter. There would be no advantage in clipping the oats; they should be allowed to make all the growth they will. Freezing and snows will bring the straw of the plants down to the ground so that the snow will be held, thus aiding by their own presence and by the snow that accumulates about the interceses of the mulch to prevent sudden changes of temperature about the grower a profit. Now the situation is roots of the trees.

expence of other trees. If the scientists area an application. Later the potash could only tell us when and how the dis- and phosphoric acid can be added in form we should do or should not do. For in- phosphate rock, while cover crops will supply nitrogen as mentioned above. The cover crops when plowed under add

THE MICHIGAN FARMER.

There is not sufficient data at hand to warrant our advising fall planting in your section. Better do the work early in the

With proper regulation of temperatures peach trees can be successfully carried

THE APPLE MARKET.

Our last issue contained an article from growers not to become scared at the published report of the Apple Dealers and Shippers' Association, inasmuch as the figures were only a comparison of this year's crop with that of a year ago, and not with an average crop, and further, that the great bulk of the present yield is composed of early apples leaving the later market open to a good demand, and very little stock to supply it. Of course, it was a natural thing for the apple buyers to make such a report public to get the people in general to think that this fall and winter at least, they could satisfy their appetite for the King of Fruits, and also to send afloat among the growers the idea that the crop is large and if they desired the best opportunity to sell they had better accept the immediate present for a few days or weeks might mean the sacrifice of the whole crop, for just such publication seems to be in harmony with business ethics of the day. Buying apples being their business, it is expected that they will use means to secure the apples they want to satisfy their customers at the lowest prices. One way of securing them at low prices is to get the grower to San Jose scale attacks all parts of the think that they are plentiful, for the grower knows that when the supply is heavy he must take a smaller price for what he has than when the trees over the country are loaded. And on the other hand, the buyers can create in the public mind, an apple habit, by declaring the plentifulness thereof. Thus both ends of the deal is aided by this bit of printing

This being the business of the buyer it is equally the business of the seller to see that the whole truth is made clear, and if it is not then the seller of the fruit should supplement, for if there is one person more than another who should reap the benefit of conditions favorable to high values we believe that that person is the grower of the fruit and not the middlemen, for while the middlemen do take some chance upon losing, their chances do not compare with those taken by the The reports submitted by the grower. buyers are true insofar as data can be gathered regarding the amount of fruit to be harvested for the season, but this report is not the proper basis for fixing prices for the late apples. The early apples cannot be held over successfully to meet the demand that is sure to develop from now on. Late apples must be drawn upon, and as the report did not show that these apples were in small supply, it is not a good basis for making contracts between grower and buyer.

The situation has been very evident upon the city market in Detroit. A few weeks ago there were plenty of apples coming in and it was difficult to get rid of them at a price that would leave the different-the offerings are small and the The condition of the land, the size, age seller sets his price and can afford to

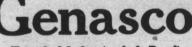
SEPT. 9, 1911.



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good imitations. The life and backbone of Genasco is Trinidad Lake Asphalt—the *natural* everlasting waterproofer-and that makes Genasco last.

Genasco is made with mineral and smooth surfaces. Guaranteed, of course. The Kant-leak Kleet waterproofs the

seams of roofing thoroughly without the use of smeary unsightly cement, avoids nail-leaks, and gives the roof an attrac-

tive appearance. Ask your dealer for Genasco Roofing, with Kant-leak Kleets packed in the roll. Write us for the Good Roof Guide Book and samples.



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The Lawrence Pub. Co., Detroit, Mich.

DETROIT, SEPT. 9, 1911.

CURRENT COMMENT.

Preparations for the The State Fair. State Fair are now

opening of the big show on the morning the fair by President Taft on September of Monday, September 18. The fair will this year continue for nine days, closing on September 27, thus affording greater arrange to attend should neglect the opopportunities for those who would attend portunity. it. to choose their time for going. It is not well to postpone a visit to the fair until the last days however, since everything will be in place from the start, and early visitors will have the same oppor- has won for their annual show the mer-tunity to study the exhibits and benefit ited dignity of a state fair since, while from the educational features of the fair as those who go later.

In addition to the representative exhibits and displays in all departments, the agriculture and manufactures of the there will be new features at this year's whole state. This season the West Mich-State Fair which should be of great interest to all farmers and particularly to big Michigan fairs, the dates being Septhe dairy farmer. A new model dairy tember 11 to 15 inclusive. Located as it barn is under process of construction and will be completed before the opening of this fair is always strong from a hortithe fair. worked out by the experts of the United States Department of Agriculture for such a building and will be complete in every particular.

One educational feature which should ambiguous provision of the law. be greatly appreciated by dairymen and hibition which does credit to its name, even dream of going to Alberta and the stockmen will be the free lectures given and which no farmer who can arrange to far west and northwest. When farm CANADIAN RECIPROCITY AND MICHlands here can be had for a song, comtwice each day by prominent educators, attend can afford to miss. IGAN AGRICULTURE. pared with prices paid in parts of Candairymen and stock breeders, on subjects An Eaton county that will be both interesting and profit- Cutting of Brush in subscriber asks for ada and the western states. I have seen, This whole matter of reciprocity with time and again, men with families, settle Among those that will give lecanother exposition able. the Highay. Canada is certainly a most remarkable on farms in this county, having not over Hon. Colon C. Lillie, former of that portion of tures are: affair. Like most questions of national ten dollars to start with. I never saw State Dairy and Food Commissioner; the new highway law relating to the cutimportance, few men are qualified to dis- one of these settlers fail to make good. Prof. A. C. Anderson, of the Michigan ting of brush along the highway. He Agricultural College; Hon. N. P. Hull, states that on the highway adjacent to cuss it understandingly. Personally, I I know instances where men have farms hesitated to take sides in the matter at worth thousands of dollars who started Master of the State Grange, and former a recently purchased farm there was a all, but I finally came to the conclusion with little or nothing six or seven years Deputy State Dairy and Food Commisconsiderable growth of brush, a portion that it is all wrong to have this reciproc- ago, and on stump lands at that. of which he has cut, the balance being sioner; Dairy Expert Helmer Rabild, of ity treaty with Canada. I hesitated to native grasses are what help settlers out. the United States Department of Agrileft as a protection for an old fence, with side against it largely because it was They can let their cows pasture on the the intention of cutting the same during culture: Hon. Jas. W. Helme, Deputy fathered by President Taft and because old logging roads all summer and gather the coming winter. Recently he has re-State Dairy and Food Commissioner; Dr. Hon. James Wilson, Secretary of Agriceived notice to cut the brush before a together enough hay and other feeds even Floyd W. Robinson, former State Anaculture, is first, last and all the time for the first year to take care of their live lyst; W. F. Raven, of the Michigan Ag- specified date or the highway comit. In matters affecting the farmers, as stock. At the same time they can raise ricultural College; Ex-Governor Fred M. missioner will cut them and the cost of this undoubtedly does, I would take Secenough other things to feed their fam-Warner, of Farmington; Prof. R. S. Shaw, cutting, together with a penalty of ten retary Wilson's judgment before I would Dean of the Agricultural Department at per cent, will be charged against him and ilies. Then, work is very plentiful. New that of almost anyone else. I had the collected with his other taxes. copper mines are being developed on evthe Michigan Agricultural College. In this connection the inquiring subscriber asks pleasure of spending a good part of two Another feature which should be atery hand and further south our iron number of irrelevant questions relating days with him at Hancock, Houghton and mines show a steady development. Some tractive to dairymen has been arranged a by Superintendent Marston, of the dairy to the ownership of the highway, its oc-Marquette, and upon the beautiful boat, of them are literally under our farms. A by Superintendent Marston, of the dairy to the ownership of the highway, its oc department of the fair, who has arranged cupancy by a telephone company for the City of Cleveland, recently, when the very large area of our mining districts with Prof. Anderson of M. A. C. to con- planting of its poles and their right to Detroit Board of Commerce visited the are wonderfully fertile and the mining duct official tests of dairy cows for a trim trees to accommodate wires and the Upper Peninsula. I did not hear any ar- districts afford a fine market, for all we seven-day period during the fair. Under right of the township officers to cut the guments then, nor have I read or heard can raise for many years to come. Sec-

THE MICHIGAN FARMER.

ers who wish to give their cows official added penalty. seven-day records can do so by placing their animals in the new modern demonstration barn. This test will not be limited to exhibitors and will be open to any and all dairymen who wish to have their cows officially tested under the rules and regulations of their particular breed association. Those desiring to take advantage of this opportunity must notify Superintendent T. F. Marston, at Bay City, before the fair opens, and have the cows to be entered at the fair grounds during the ten days of the fair. There will be no expense, except for transpor-tation to and from the fair. If the owner desires, all feed will be furnished by the dairy department; all milk produced by the cows in this test will become the property of the dairy department for use in the demonstration creamery. This demonstration creamery will be in the new dairy building, which for this year's fair will be covered by a large tent, the foundation and floors being in but the building not being completed.

So far as the general exhibits are con-cerned, the fair officials state that every available inch of exhibition space will be occupied. In the agricultural and horti-cultural sections exhibits will be larger than ever before, the several develop-ment bureaus of the state having ar-ranged to make special exhibits. There will be an educational exhibit from the So far as the general exhibits are conwill be an educational exhibit from the Philippines and big exhibits from the obligatory upon the owners of property Canadian northwest. The live stock barns will be well filled with choice animals. land or on the highways passing through Already there is guaranteed a fine horse or by said land at specified times, but exhibit, while a large number of cattle breeders with herds of noted quality The next section prescribes the form of will be on hand and there is every promise that the hog exhibit will be especially strong, while that in the sheep department will be up to the high standard set highway commissioner authority to enter in previous years.

For the first time in its history the State Fair will this year receive official recognition from the United States Department of Agriculture, President Newton having been notified that Prof. Chas. E. Snyder has been detailed to represent the department, with instructions to pay special attention to the horse and sheep exhibits.

The entertainment features of the fair will be up to those of previous years and need not be here enumerated. It is certain that there will be plenty of attracnearing completion and tive features to make attendance profiteverything will be in readiness for the able for all who go, from the opening of 18 to its close on September 27, and no Michigan Farmer reader who can possibly

> The West Michigan the officials of the West Michigan Fair State Fair. during recent years

has won for their annual show the merit is peculiarly representative of the progressive agriculture of Western Michigan, the exhibits are fairly representative of igan State Fair will be the first of the is in the heart of the Michigan fruit belt, This is made after the plan cultural standpoint, and its show of live stock is always good, as are the exhibits in every department, including agricultural machinery. Its entertainment features are also of a high class. Altogether the West Michigan State Fair is an ex-

At the outset, for the benefit of this thing to have. subscriber and others who may be in- Possibly I should say for the benefit of terested, it might be well to say that my readers that I am interested in the while the township does not own the lumber business, but I do not believe that highway, it is by law dedicated to the the cancellation of the lumber tariff is of use of the traveling public, and there is much moment to my own particular inno question about the authority of the terests. I do think it is of considerable legislature to enact almost any legislation importance on the Pacific coast and also, which it may deem expedient regarding its obstruction. The telephone companies have no other rights in the highway than those given them by law for the convenience of the public who desire the advantages of telephone service, which rights carry with them no obligations regarding the maintenance or care of the highway, other than as relates to their lines.

As before noted in these columns, the provisions of the new highway law quiring the cutting of brush along the highway appear to be somewhat ambiguous, which, however, is not true regarding the provision relating to the cutting of noxious weeds. Section 2 of the law reads as follows:

The next section of the law makes, it to cut all noxious weeds growing on their does not mention the cutting of brush. notice to be given for the cutting of noxious weeds but does not mention brush, nor does the section following giving the upon the land and cause all noxious of dollars are being spent annually in an weeds to be cut. Section 6 of the law, effort to settle them. While it is true however, provides for a report to the township board by the commissioner of highways regarding the expense incurred in cutting brush as well as weeds from the highways and provides for the audit-ing of such bills by the township board, while the succeeding section provides that the cost of cutting, together with the 10 per cent penalty shall become a lien on the land, to be assessed and collected as other taxes are collected. From the reading of Section 2 of the law as above quoted it would appear that to make the action of the highway commissioner legal, and the cost chargeable against the property owner, the cutting must be done prior to the first day of July, and there is some reason to believe that, in a case of this kind, the proviso in the section would become operative, The enterprise of since the brush has been temporarily preserved for a purpose.

However, this rather indefinite provision of the law could be tested only at some disadvantage, since the property owner could only serve written notice on the highway commissioner not to cut the brush, then pay the tax under protest and bring suit to recover the amount, which would be hardly worth while. The best course of procedure in such cases would be to talk the matter over frank-Iy with the township officials and come to some definite understanding by which all trouble and litigation may be avoid-The officials will generally be found ed. to be reasonable men, which will make this course practicable and wholly satisfactory to all concerned, since litigation is expensive and there is no certainty regarding the interpretation which the courts might make of this apparently

this arrangement dairymen or cow own- brush and charge him for same with an any, before or since, that convinced me that reciprocity with Canada- is a good

> but of less importance, on the Atlantic coast. However, I feel that it is altogether wrong to single out a few manufacturing industries and the farmers to bear the burden of the Canadian treaty. and a burden I believe it will be found to be.

There are many honest champions of this measure, but I feel certain that there are few sound arguments in its For instance, President Taft in favor. his address at the Columbus, Ohio, corn show last winter, said that one of the principal reasons why he is in favor of reciprocity is that there is no good agricultural land left unoccupied in this country, and that it is advisable, therefore, for us to tear down the tariff barrier between the United States and Canada and "let an ever increasing agricultural population flow over into the Canadian northwest." He also said it had become "necessary for us to spend millions of dollars yearly to reclaim the arid regions of the west," presumably to take care of the increasing number of farm-It is quite evident that President ers. Taft has a limited knowledge of the resources of this country in some respects, but, of course, we can harlly expect him to know everything.

As a matter of fact, there are about twenty-five million acres of good agricultural land crying for farmers to come and use them in the three states of Michigan, Wisconsin and Minnesota. Millions that some of them are heavily infested with stumps, they are no different than were the acres turned into farms by our forefathers. As far as the expense is concerned it is not to be compared with the cost of irrigation, and as far as productiveness is concerned many of these unoccupied acres are the equal of any lands on the continent. I am strongly in favor of filling up our own waste places before we start to help Canada populate hers. She has shown a remarkable ability to do it in the past. Her advertising has been very effective. Year after year see the lure of the wheat fields, we where they have frosts on the Fourth of July and blizzards in summer, tempt our middle west farmers north of our boundary line, to lands and conditions less desirable than Michigan has to offer. More will go under the new treaty, and why shouldn't they? The President of the United States seems to think it is the proper thing to do, or at least inevitable.

The Upper Peninsula of Michigan has about eleven million acres of land, a very large part of it the best of agricultural land, a larger percentage of good agricultural land than the Lower Peninsula, as shown by the new soil map now being prepared by the state geologist, is nearly half yet covered with virgin forests, but they will go very fast from now on. There are literally millions of acres lying around loose, fit to be farmed with very little work. Now that the world is beginning to recognize that the Upper Peninsula of Michigan can grow fine apples, corn, beets, and in fact, nearly everything else the rest of Michigan can grow, the mystery is why people will

retary Wilson said we would come to the front as a dairy section. Probably no-where else is clover a weed, literally overrunning the land. Some have maligned us because of our deep snow, but they are forgetful of its effect on our clovers and grasses and our fall grains. Some day not far distant we will be famous for our winter wheat. I cannot refrain from telling our lower Michigan brothers that we can plant our potatoes in the fall with certainty that they will grow in the spring, or we can leave them in the ground and dig them in the spring as we did on Hemlock Hill Farm this We actually dug our seed potaspring. toes this spring and immediately planted them.

I see I have digressed, but if I once get started on the subject of the opportunities in the Upper Peninsula it is hard for me to get back to other subjects. To go back to reciprocity again, those who favor it talk the way I should expect a Canadian boomer to talk. It is true, if we don't like it we can quit it, but it is the uncertainty of things that makes for our present business depression and it is dangerous to experiment. No one really believes we will ever have free trade in this country who has seen its workings in England. Why not have protection against all? If a reduction of tariff is needed, let's have it, but let us not put the burden upon the farmer, and particularly the farmers of the states along our northern border, like Michigan.

Ontonagon Co. T. A. GREEN.

HAPPENINGS OF THE WEEK.

National. The manager of the theatre at Canons-burg, Pa., where so many persons were killed in a crush caused by people fleeing from the building after a cry of fire was heard, was severely censured by the cor-oner's jury who decided, however, that no person is criminally liable for the catas-trophy.

person is criminally liable for the catas-trophy. Reports of the different railroads lead-ing through the sugar beet districts place the crop of Michigan about 20 per cent higher than the crop of last season. Sugar interests state that because of the shortage of the crop in foreign coun-tries the price of sugar to consumers will not go lower than it is now, which is one cent higher than a year ago, and in all probability it might reach higher quota-tions.

The receipts at the Chicago postal sav-ings bank for the first month of its ex-istence was \$200,000, which is a record for the postal banks established so far

for the postal banks established by an in this country. The breaking of a coaster car at Coney Island Saturday, resulted in the death of two women and the injury of many others.

two women and the injury of many others.
Six miners came to their death at Butte, Montana, by riding in a cage loaded with drills which caught on the side plates of the shaft and pounded the men into pulp and finally swept them down the shaft 1,400 feet below.
Experiments at Sandy Hook have demonstrated that the new 16-inch guns will be able to destroy the largest Dreadanaught at a distance of 22 miles. The shell thrown by the monster gun weighs 2,400 pounds.
Statistics indicate the following figures to be the number of board feet of lumber produced by the leading lumber states in the year 1909: Washington, 3,862,916, 000 feet; Louisiana, 3,551,184,000; Mississippi, 2,572,669,000; North Carolina, 2, 177,715,000; Arkansas, 2,111,300,000; Virginia, 2,101,716,000; Texas, 2,099,130,000; Wisconsin, 2,025,038,000; Oregon, 1,898, 955,000; Michigan, 2,889,724,000; Alabama, 1,669,001,000, and Minnesota, 1,561,508,000. The Massachusetts cranberry crop is reported to be about 11 per cent larger than the crop of 1910. Harvesting has bern.

begun.

begun. The Michigan state board of equaliza-tion has increased the value placed on the state's property for taxing purposes, from \$1,734,100,000 which was the amount agreed upon five years ago, to \$2,290,000,-000. This increase is \$673,553,882 less than the estimate made by the state tax commission

than the estimate made by the state commission. Nine persons are believed to have lost their lives in a fire at Juneau, Alaska, and 14 others are in the hospital suffer-ing from burns. The fire consumed a hotel and one other structure. Three persons are dead and a score in-jured as the result of a suburban trolley car plowing through a crowd of Hungar-ians who had been picnicing Labor Day and had returned to the car line at St. Cosme, four miles west of Detroit city where they were to take the car limits, where they were to take the car home. When the car approached the anxious waiters crowded those close to the track upon it, and they could not escape before the moving car swept escape before them down.

THE MICHIGAN FARMER.



Hopeweil, S. Dak., June 28, from d dry and hard, with a little moisture below, which makes it more tough. The machine pulverized it, while the ordinary ployed, if you could set it to work at all, a bone. There is moisture in the ground but not enough to make a could be as dry as a bone. There is moisture in the ground but not enough to make a could be as dry as a bone. There is moisture in the ground but not enough to make a could be as dry as a bone. There is moisture in the ground but not enough to make a could be as dry as a bone. There is moisture in the ground but not enough to make a could be as dry as a bone. There is moisture in the ground but not enough to make a could be as dry as a bone. There is moisture in the ground but not enough to make a start of the wissel IT, was NOT GETTING THE SPALDING DEEP TILLING MACHINE LAST FALL, AND DOING THEN WHAT WE DIEP TILLING MACHINE This letter has a priceless message to farmers all over the region of the wising the Spalding Deep Tilling Machine last fail—if the Spalding Deep Till-mg Machine made "a green field" for them when other crops were all gone a done cent yield next season, by using the Spalding Deep Tilling Machine this failed to be as a provention of the spalding Deep Tilling Machine the season and the spalding Deep Tilling Machine the season and the spalding Deep Tilling Machine the s





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A

"Plow

DRY HARDPAN

E. R. Par of the fam Dry Farm Colo., said to ing Congress:

CH

escape before the moving car swept them down. Foreign. Food riots are reported in many parts of France. The high prices asked for bread and other necessaries have aroused the working people who have formed or-ganizations to resist further advance of prices. Conflicts with police and troops at St. Quentin resulted in 20 solders and 100 maifestants being injured. Cholera is reported to be getting a firmer hold in Turkey. It is stated that in Constantinople there were during the month of August, 70 cases reported and 25 deaths. The bolier of a German steamer ex-ploded while the boat was near the mouth of the Oder river, killing eight men, in-cluding the captain of the boat.

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THE TRAGEDY OF THE OLD.

A woman was taken from a smart So the mother was bundled off to grieve boarding house the other day to a home her for old ladies. She was not old, she blithely on her way. should have been a happy mistress of a

She was simply worn out. happy home. A hard battle with the world had been too much for her. For years she had solicited advertising for a prominent weekly and had earned thousands of dollars, but at forty-five she had not enough money ahead to provide for this unexpected breakdown. Every cent she had earned had gone to educate her only daughter.

Dolly had been sent to the most ex-clusive school. Then a vocal teacher had "discovered" she had a voice and hundreds of dollars had been poured out in the cultivation of the "discovery." Dolly had to have fine clothes to appear in numerous concerts, for which affairs she never received a cent of pay. And hundreds and hundreds of dollars more went to help Dolly make as good an appearance as the daughters of the wealthy men with whom she chummed.

Finally Dolly married. Her mother's friends expected the mother to give up work and live with the young couple, but Dolly and her husband had other ideas. Dolly's husband would "not have a moth-er-in-law ordering his house." His salary was just large enough to give the pain which were the mother's before two of them everything they desired but Dolly was brought forth. No one rea third would mean sacrificing a few lux-. uries. So Dolly dutifully submitted to her liege lord's decree, and the mother kept on working.

without giving up her career, and no one the general opinion. could reasonably expect her to do that. She had reached a point where promiclub that claimed her support.

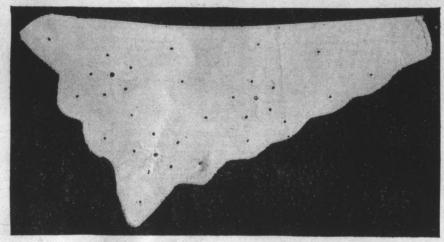
And Dolly's friends agreed. It was alwere Old Ladies' Homes for, anyway?

heart out, and pretty Dolly went

And the tragedy of the whole thing was that so many thought it quite the proper thing to do. No one thought of the things Dolly's mother had given up for her. No one called to mind the sleepless nights, the breathless terror and the stitches are shown in the lower one of

remaining petals show the finished work. In many figures, particularly in disks, like the one pictured, the stitches must run straight across the figures, whether padding is used beneath or not. However, in curving forms, like the scrolls shown, the stitches should be made to conform to the contour of the figure, by crowding them very, very closely on the inner edge, and slightly spreading them on the outer edge, though not sufficiently

show spaces between. The padding



to

Cuff in Solid and Eyelet.

minded Dolly of her mother's constant take. care of her in her childish illnesses, nor for her when the father left them alone. Then came the crash. Overwrought The money lavished on Dolly's education, nerves and the sorrow of separation from if put at interest, would have kept the her idol were too much for the mother mother in ease, but no one thought of and she gave up. Again her friends ex-that, least of all Dolly. Sacrifices which that, least of all Dolly. Sacrifices which pected Dolly to come forward, but she were accepted as a matter of course on did nothing of the sort. Dolly said she the part of the mother were too much simply could not take her mother in for anyone to ask of the child, such was

And this is the remorseless spirit of the age. The mother who neglects her child or openly laments because she must give nent church soloists occasionally asked or openly laments because she must give her to supply for them. Besides, what up so much for it is branded as an inwould the Girls' Friendly Society, the human monster. But the children who Mothers' Club, the East Side Settlement bundle their parents off into homes, or and the Y. W. C. A. do if she withdrew delegate them to servants, are applauded from her committees? And then there for their good sense. To the modern were three bridge clubs and a literary mind the helplessness of the aged is inexcusable, even though that helplessness arises from the fact that the children together too much to expect a young absorbed everything. One would think thing like Dolly who was so fond of life, when the same gray days await us all at to give up everything and spend her time the end of the road that a purely selfish fussing over a nervous old lady. What motive, if no other, would bid us be kind. DEBORAH.

pain which were the mother's before these scrolls, while the upper shows the direction the finishing stitches should

All solid work is merely carrying the hinted at the sacrifices the mother made thread across the figure again and again, whether straight or diagonally, and whether the design be large or small. When very large figures are present it is not always practicable to work them in this way, as the long, loose threads are quite likely to be caught and pulled awry. The solid Kensington or the tapestry stitches should be utilized in such

> In the leaf near the bottom of the sketch the slanting stitches are illus-

Fig. 1.

ess of raised solid work is shown in this trated, the slant being exactly opposite flower. One petal is plain, save for a on the two sides of the leaf, so that it row of running stitches around its edge. runs always toward the base. Even the These should be placed first as an out- turned tip is wrought to correspond. This style is m ade ing stitches must then oftener without padbe kept inside of these. The petal ad- ding than it is with the raised effect, joining shows the running stitches and though it is possible to work it either the padding stitches lengthwise of the way. The midrib may be outlined, or be form. These should be much longer on simulated by the jointure of the stitches, which should be decidedly even and true. the surface than they are on the under side of the goods, as the work is much In the leaves in the upper corner of the neater by keeping all padding on top, and sketch another method of working is sugthen, too, a waste of the thread is avoid- gested, though it is also in a slanting ed. When a very high effect is desired, form. It will be seen that the slant is confined on both sides of the midrib or as in French, laid work, and initial embroidery, the padding stitches should be voiding through the center. This, too, piled up well, particularly toward the may be worked with or without padding, center of the figure, thus allowing the but the raised mode is much prettier. rounding-off effect which is so desirable. The voiding is simply a spacing, the In the third petal, part of the outer stitches being stopped at this line in a stitches have been placed, and it will be distinct, even edge. This voiding is a noticed that these run directly across the charming feature of the Chinese and Jappadding, as indicated before. The two anese work, and they also are greatly giv-



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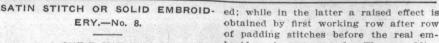
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MAE Y. MAHAFFY. two varieties, flat and raised. In the thread, or of the working cotton or silk; former, stitches are placed flat upon the



of padding stitches before the real embroidery is commenced. These padding Satin stitch or solid embroidery is of stitches are made of a regular padding some workers even use darning cotton. surface of the material to be ornament-site direction to what the afterwork will made, as this prevents the outer stitches from sinking down into the padding, and becoming lost or hopelessly entangled with it. In the violet shown in the sketch in figure one, these padding stitches appear; in fact, the entire proc-

obtained by first working row after row



Solid Embroidery.



en to continuing the slant on the oppo- is filled, place an inverted plate or sauce site side of the space on the same an- over the mass--it must fit in the vesselgle, as in these leaves.

work is the keynote, but the stitches are for about 24 hours, then pour off the made lengthwise of the petals, the small brine and pour on a quart of vinegar, amount of padding used being placed boiling hot, boiled in a porcelain vesselacross, the entire process being exactly no other. Replace the plate to keep the opposite or contrary to that in the violet. Some designs are seemingly better adapted to this style than to the other. The place .- F. M. B. French laid work, so deservedly popular, usually has its solid stitchery made like the violet.

The pretty cuff shows a combination of solid, raised work and eyelets. The pickles that is sought for by many. To conjunction of these two forms produces some of the most elaborate and beautiful add eight cups brown sugar, one tablepatterns it is possible to find in modern needlework. Neither seems quite so complete alone, although for certain usages and in certain designs they are each unusually attractive, but taken together, Let stand over night, drain well and the eyelets to lighten the rather monotonous work, no stitches are more seemly mushy. or more capable of being utinzed in varied ways to good purposes. A majority of the decorations for waists, lingerie, table linens, etc., of today are made in ples , two quarts of sugar. Boil 20 minthis combination. The worker must cer- utes, or more if tainly include these two handsome by that time. stitches in her curriculum before she and I can say they are first-class .- Mrs. can feel even moderately well versed in S. B. McC. the craft of the needle.

The flat solid work is utilized largely for the conventional designs now so often seen on sofa pillow tops, library scarfs, etc., in colors. They also form the foundation of a large number of the peasant embroideries of Europe, colors being used without padding, with perhaps a fanciful stitch combined in some portion of the Wash well in the evening and put to design. Braid-like patterns are also car-ried out in the solid work, the stitches being taken across the width of the design. formed in this fashion, such patterns as being well adapted to it.

RECIPES.

We do not pay for recipes. Our readers may ask for any recipe they wish, and cover with clear water, boil a few and as a return courtesy we hope they will donate their own favorites. Grape and Orange Jam.

pounds of grapes, seeded, four Six pounds of sugar, two pounds of seeded raisins, four oranges. Chop raisins and er the fire and cook just enough to heat oranges fine. Cook the grapes after seed- through, then put in cans and seal while ing them, for fifteen minutes. Then add the rest and simmer slowly till thick. Do For cucumbers I take the small or me-not put in the peel or skin of the oranges. dium size, turn boiling water over them the rest and simmer slowly till thick. Do -A. E. L.

four oranges for a peck of pears. Cut gallon of good vinegar, not too strong, the oranges into small pieces; mix with add half cup of salt, half cup of sugar, the pears and cook as usual.-A. E. L.

Have You a Good "Summer Drink?" Editor Household Department :-- I won- Can add cucumbers from time to time, der if you will consider an inquiry from also vinegar, until full. a mere man? Would you be willing to or something over top to keep pickles ask Farmer readers for home recipes for under the vinegar. These never mold or drinks suitable for the hot weather; es- get soft and will be found as good in two pecially for men doing outdoor work?- or three years as when first put in. Are M. G. G. (Please send a self-addressed always ready for use.-Mrs. A. C. D. and stamped envelope for information regarding book).

saw a request for brown bread, so I send it, and with it, other ones that I know to be good. I wonder if the ladies would until stiff, add one tablespoon of sugar like the recipe for tomato mincemeat? Brown Bread.—Two cups buttermilk,

two-thirds cup sugar, two teaspoons soda, a little salt, graham flour enough to make Bake one and one-half hours .-- Mrs. S.

Half peck ripe tomatoes, one and onehalf peck peppers, two teaspoonfuls black is fine. Clean endive and cut in about telephone service, and I can hardly understand how we were able to get along without a telephone. We feel that the arrangement we pepper, one cup grated horseradish, three-inch lengths, then boil in weak salt three-fourths cup ground mustard, half water till tender, then add enough vine-For particulars write cup salt, one cup sugar, one pint vinegar, gar to make it tart. Can boiling hot and Michigan have is the ideal one for a farming one quart onions. Chop or grind toma- set in cool place. It may be eaten as Our dealings community. toes, peppers and onions fine and mix all picked or as greens or with a salad your company have been perfectly together. Do not cook or seal .- Mrs. J. dressing. Celery may be canned the satisfactory, and we should be glad to have you refer other farm-ers who wish telephone service, to State Telephone same way and it is fine and will keep a B. McC. long time .- Mrs. M. G. A. To Pickle Cabbage. For each six-gallon jar or other earthen vessel take a pint of salt, the same our company or to any of its sub-Black Chocolate Cake. we could not farm without a Two cups light brown sugar, half cup Company amount of horseradish cut into small bits of butter, two eggs, half cup cold water, and two tablespoonfuls of mustard seed; half cup boiling water, half cup shaved telephone. Yours very truly. mix thoroughly. Remove the outer leaves chocolate or two squares, two and a half (Signed) RAY GREENWOOD, DETROIT - MICH. from the cabbage, so as to leave no cups flour, one level teaspoon soda, one bruised or affected parts; cut into the level teaspoon baking powder, one tea-Sec'y Pleasant Valley Roadway Co. Rural Line Department. finest particles possible, and having spoon vanilla.-Mrs. F. S. L. sprinkled a thin layer of salt over the sprinkled a thin layer of sait over the bottom of the vessel, put a layer of cab-bage down, pressing firmly. Then sprinkle the layer with the prepared and corn?-Mrs. H. C. H. When Writing to Advertisers please Mention the Michigan Farmer. mixture; place another layer of cabbage, These recipes were published in the and proceed as before. When the vessel issue of July 8.

and put a weight on to keep it pressed In one of the jabots pictured, solid down. Let the vessel remain undisturbed cabbage from floating, tie cloths over the top of the vessel and leave in a cool

Who Has Raw Chill Sauce Recipe? Will someone please send in recipe for making raw chili sauce? In return I will contribute one for sweet tomato one and one-half quarts of good vinegar spoon each of cinnamon, cloves and allspice in a cheesecloth bag, boil well. Slice half bushel green tomatoes and a dozen or so large onions in moderate salt water. cook in weak vinegar until tender but not Drain again, put in jars and pour on hot syrup.-Mrs. G. W. E.

Blackberry Jam.

Two quarts of berries, one quart of aputes, or more if the apples are not tender These are tried recipes

Editor Household Department:-I am sending a few of my own recipes for can-ning string beans and tomatoes, also putting up pickles, which I hope will be a help to the readers who read the home department in your paper.

To Can String Beans.

Pick and prepare as for immediate use. drain over night. In the morning I have ready two quart jars and fill with the dry beans, pressing down tightly, then Quaintly pretty bandings are put on good rings, turn cover down tightly and boil in the wash boiler until the the Greek key, the linked chain, etc., beans have shrunk, leaving the cans being well adapted to it. about two-thirds full. Remove from the fire, let cool, and retighten the covers, if any are loose, but do not remove. Set aside in a cool place until ready to use. When wanted to use turn off the liquid minutes and season the same as fresh beans. I have tried this way for ten years and never lost a can.

To Can Tomatoes.

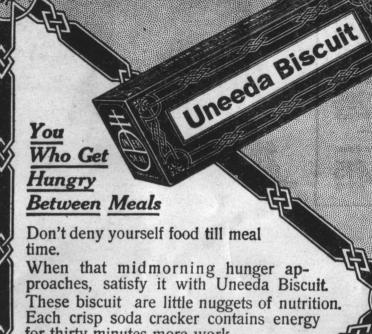
Scald, peel and cut in halves, place ov-Set in a cool, dark room. hot.

and let stand over night. In the morning Oranges added to pears when canning turn off water, wipe dry and drop in make a big improvement. Take three or vinegar prepared in this way: To one one-eighth cup of ground mustard, stirred smooth. Mix well and turn in jar or keg. Place a plate Butterscotch Pie.

Two egg yolks, two tablespoons flour, Offers Tomato Mincemeat Recipe. one pint of milk, half cup granulated su-I have never sent recipes before but gar, half cup maple syrup. Mix these together, boil until quite thick, put in baked crust. Then whip the whites of two eggs and a little vanilla and put in oven to brown.-N. M. H.

Canning Endive.

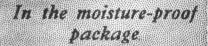
Editor Household Department:-I see Michigan State Telephone Co., Detroit, Mich. you don't find a recipe for canning enit a little stiffer than pancake batter. dive, so will send you my way, and my mother and grandmother have used it before me. We all think it fine. I have Gentlemen: L. H. It gives me great pleasure to say Cold Catsup. something good about your farm line some now that I canned last fall and it



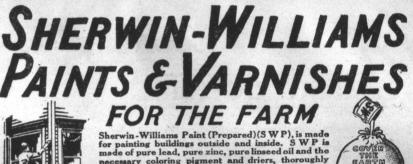
for thirty minutes more work. Many business men eat them at ten in the morning. So do school children at recess.

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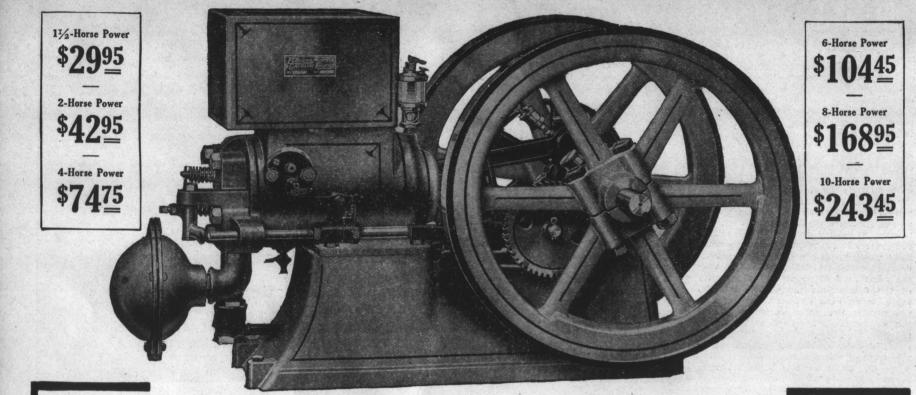
Menominee, Mich., Jan. 26, 1911.

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THE MICHIGAN FARMER.

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THE MICHIGAN FARMER.



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Users of gasoline engines are paying from one-third to one-half more than actual value for engines bought through the wasteful out of

WOOD SAWING OUTFITS

date "agent-and-middleman" method. Never was there a greater opportunity for us to serve our customers than in gasoline engines. Never has there been a better chance for us to demonstrate the practical value of our "factory to farm" method of merchandising.

The Remedy The remedy for high prices and unjust profits in gasoline engines is at hand. We now own what we believe to be the best engine building plant in the country, equipped with all the latest improved automatic and labor saving machinery, manned by an organization of the highest skill. In this perfect engine factory we have made a complete investigation of the gasoline engine question. We know exactly what the farmer's gasoline engine must do, and we are building the engine that will do it. Every problem has been met squarely and solved honestly. We offer no makeshifts or compromises in the Economy Gasoline Engine. In the testing department of our engine factory every engine on the market has been actually operated and tested alongside the ECONOMY.

The result of these tests shows Economy Engines to be so perfect in their quality, power, efficiency and durability, that we now sell them under a lifetime guarantee and with the privilege of a sixty days' trial.

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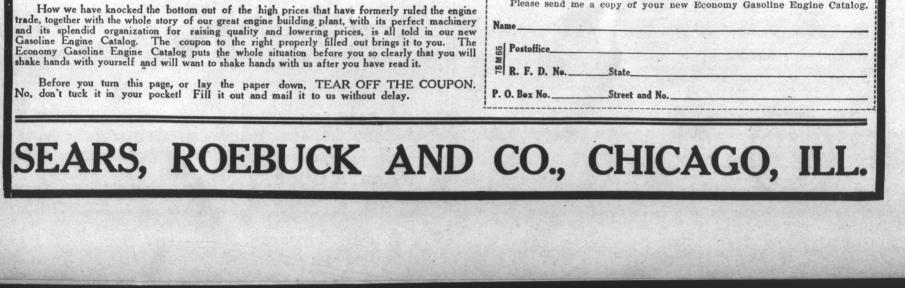
You do not need to be told that a gasoline engine will earn its cost several times over in a few months. You are probably figuring on letting a gasoline engine take the place of hand labor in the house, dairy and laundry, letting it help the windmill when there is no wind, doing by gasoline engine power some of the work now done by your horses.

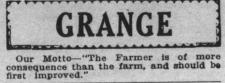
How Much Power Do I Need?

How Much Power Do I Need? It won't cost you a penny to get an absolutely accurate answer to this or any other question connected with power for the farm. Just write and tell us what work you have for the engine to do and our engineers will tell you exactly what power you require and how much it will cost you. If a 4-horse power engine will do your work as well as 6-horse, our engineers will tell you so. If you actually need 4-horse power to operate your machinery, our engineer may be able to show you where it would be better to purchase two 2-horse power engines instead of one 4-horse power. Tell us what your needs are. Write us today and let us solve your power problems. The engineers who made the Perfected Economy Gasoline Engine are ready to give you expert advice without one penny of cost to you.

SEARS, ROEBUCK AND CO., Chicago, Ill.

Please send me a copy of your new Economy Gasoline Engine Catalog.





BUSINESS MEN AND GOOD FARMING.

The stimulation of better farming affects both farmer and business man. Rarely, however, does it occur to the merchant or Board of Commerce to initiate a movement looking toward this end. If the farmers do not fare well, if they do not "get on" of their own accord, it does not often happen that business men set about the encouragement of agriculture in a systematic, determined way. Yet in a few cases it is being done. The Chamber of Commerce of Binghamton, N. Y., is a notable example. It has made the improvement of methods upon surrounding farms a regular feature of Its plan to build up its city. It employs an agent whose sole business it is to study farm conditions in that vicinity and to seek out individuals who will apply such remedies as he deems necessary. In fact, he is to stand as a sort of consulting friend for farm needs. The effect upon both farmers and business men is of marked interest.

Why have not business men thought of this before, you ask? I do not know, except it be that we are coming into the light of the day when men see clearer than ever before how closely all peoples are bound together and that what lifts one raises all-that what holds one class down retards the progress of every other. I do know that on every hand is being heard evidence of the fact that the welfare of producer and consumer is one Last winter at institutes which welfare. I attended business men came to learn how to farm. They not only wanted to get a foothold on land for themselves but they wished to unite their business organizations in a movement to promote better farm methods about their towns; to secure trained farm men to come and instruct farmers how to handle their solls and animals to better advantage, what crops and fruits would do best and how to raise the best of their kinds.

All of this is very different from the talk we used to hear when the Grange was starting. Then there was much schism between producer and consumer and much talk of an offensive and defensive character.

A striking instance of the changing attitude was shown by the business men of Escanaba last year when Delta Pomona Grange held its fall meeting in that THE MICHIGAN FARMER.

of culture were overheard all around. When brought before Pomona Grange to receive the formal thanks of that body, the enterprising merchant modestly refused to take any undue credit for his He assumed that the promotion effort. of better farming was a matter in which he was vitally interested, in common with the Grange and every individual farmer JENNIE BUELL. of the county.

WESTERN POMONA GRANGE.

Western Pomona Grange No. 19 was entertained at Grand Haven, Aug. 25, by Peach Plains Grange, the newest Grange in Ottawa county. If our hosts lacked in numbers, they more than made up in hospitality and enthusiasm. A bountiful dinner was served to a company of about 75, among whom were representatives from seven of the ten Granges in the county. county

from seven of the ten Granges in the county. Meeting was called in the fourth de-gree and the Nunica Grange Degree Team exemplified the third and fourth degrees in a creditable manner. It was particularly fitting that the work be giv-en at this time since the Peach Plains members are holding their meetings at their homes and have been unable as yet to confer the degrees in full. They are hoping to have a hall of their own some-time, and to be able to do the initiatory work as well as do the young people of Nunica Grange. Bro. Thomas Wilde, Sr., thanked West-ern Pomona for the potted plant sent Sister Wilde during her last illness, and told in a touching manner how much she appreciated the kindness. Bro. W. F. Taylor, of Oceana county, concluded the afternoon program with a helpful talk on degree work, in which he emphasized its value to the team, the candidates, and the Grange. He said in part: "Good degree work teaches disci-pline, its lessons impart inspiration and the practice gives power in elocution and the practice gives power in elocution and

part: "Good degree work teaches discipline, its lessons impart inspiration and the practice gives power in elocution and insipres to lofty ideals. The object of degree work is to reveal the Grange to the candidate. To do this well, the ritual must be understood by the degree team and they must strive to make the candidate feel what they feel. The whole Grange is better for having witnessed good degree work. The sublime lessons of the ritual are not lost, though they are often given. The lesson of fidelity in the fourth degree is a priceless thing. The Grange is a great fraternity and the mass of our membership in the state is at peace with each other. They are working loyally and earnestly along Grange lines. True, there are a few, a very few, (perhaps not more than could be counted upon the fingers of one hand), who would divide us into factions and I have often thought that it would be well for them to go back again and repeat the solemn obligation of the fourth degree at this altar. Listen to that matchless story of fidelity from the lady assistant steward, and hear the words of the mass the date." Friday evening a public session was held in which music and recitations were

candidate." Friday evening a public session was held in which music and recitations were a prominent feature. There was a short discussion of the question, "If you were given your choice, would you choose an automobile or a college course, and why?" The general opinion seemed to



TION OF FARMERS' CLUBS.

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

Treasurer-Mrs. Lewis Sackett, Eckferd. Directors-A. R. Palmer, Jackson; Wm. H. Marks, Fair Haven; C. L. Wright, Caro; E. W. Woodruff, Blanchard; C. P. Johnson, Metamora; Patrick Hankerd, Munith. mora.

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

Associational Motto .-

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

Associational Sentiment .--

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

THE MICHIGAN FAIRS AND THE FARMERS' CLUBS.

There is no better place for observation which will result in the gleaning of valuable material for future discussions in the Farmers' Club, than our big educational fairs. The Michigan State Fair, which will be held at Detroit, Sept. 18-27, inclusive, is an educational exhibition that should not be neglected by any progressive Club member who can possibly plan to attend it. There will be seen the choicest products of the best farmers of the state, and many of the best herds and flocks in the country. A study of these exhibits, together with the large line of manufactures which are shown at such an exposition, will furnish the most valuable data for the future discussion of practical topics in the Club meetings. Then there will be chance meetings with other members, which will make the occasion the more enjoyable, to say nothing of the entertainment and relaxation which the outing will afford. Those who are so situated as to make it possible should also attend the West Michigan Fair at Grand Rapids during the week of Sept. 11-15, which is a good second to the Detroit fair from an educational

Section of Farmers' Fair, Heid at Escanaba in Connection with the October, 1910, Meeting of Deita County Pomona Grange. city. An agricultural fair had, for some reason, to be given up at a late date. It looked as if no exhibition of farm pro-ducts would be held. Not so. Less than enterprising proprietor of a leading store in Escanaba sent circulars broadcast ov-the entire front of his large store for ex-hibit purposes. More than \$500 in cash prizes was offered, besides free lunches sorts of furtie sinces and repassed so of the will do his part toward country them the will do his part toward country the sorts of furtie, subjects, and of methods Brown, Lecturer. Section of furties, and of methods Brown, Lecturer. Section of furties, file subjects, and of methods Brown, Lecturer. Section of furties, file subjects, and of methods Brown, Lecturer. Section of furties, file subjects, and of methods Brown, Lecturer. Section of furties, file subjects, and of methods Brown, Lecturer. Section of furties, file subjects, and of methods Brown, Lecturer. Section of furties, file subjects, and of methods Brown, Lecturer. Section of furties, file subjects, and of methods Brown, Lecturer. Section of furties, file subjects, and of methods Brown, Lecturer. Section of furties, file subjects, and section subjects, and sections and musical numbers, was and entrainment the subjects, tables were arranged and musical numbers, was sorts of furties, and of methods Brown, Lecturer. Section of furties, file subjects, and ad and methods beliefs, "-Myrtle Brown, Lecturer. Section of furties, and of methods Brown, Lecturer. Section of furties, and of methods Brown, Lecturer. Section of furties, and of methods Brown, Lecture Section of Farmers' Fair, Heid at Escanaba in Connection with the October, 1910, Meeting of Delta County Pomona Grange.

A JOINT CLUB AND GRANGE RALLY.

Clinton county Farmers' Clubs and Po-mona Grange held a joint rally at the fair grounds Saturday. By one o'clock there were probably 800 people gathered, a great many having brought their dinne

fair grounds Saturday. By one octock a great many having brought their din-ners. The program was one of interest and each number was enjoyed. It opened with a song, "America," by the entire company, followed by a prayer by the Chaplain. Theodore H. Townsend gave the welcoming address in which he con-veyed the idea that Clinton county has farmers' organizations which do great credit to it. A good literary and musical program was then rendered. John C. Ketchum, the postmaster at Hastings, was the first speaker of the day and his speech was received with great enthusiasm by everyone present. He was entertaining and held the inter-est of his listeners by giving forth many splendid thoughts in a clever manner. Mr. Ketchum chose his own subject, "Some Open Doors for Granges and Farmers' Clubs." He talked close to his subject from the start. He told how necessary education is for general good. Here in the United States young people are afforded privileges which are un-known in England. Here a boy or girl can choose his or her occupation and under ordinary circumstances can be-come educated to follow it up. In Eng-land it rests with the child's father. There he is apprenticed to whatever trade his father may dictate. There are four things, he said, which the Farmers' Clubs, and in fact, every individual whether a member or not, ought to do, and those are to (1) have a good big door for the development of leadership in the country. The man de-pends a great deal upon the by. Early training is essential. Good health, a good balance wheel, and sincerity of purpose assure strength to become a leader. Without them is weakness. There is no better place than a Grange or a Farmers' Club. (2) Develop a better community spirit. He said that neighborhood qaur-rels should not be tolerated. Difficulties for the great satisfaction it brings a great many people who have been traveling ex-tensively, to return to their home. This is as it should be. (4) Use the "Big Stick." This is to bring about reforms which are much needed.

The program closed with a successful alloon ascension.—Mrs. C. L. Pearce, balloon Reporter.

CLUB DISCUSSIONS.

Fair at Grand Rapids during the week of section of the first form an educational to the topic of the first should not be forgotten, as it has proven helpfut to both. Last, but not least, the Clab to contex, have the support of the Chub to order. The local fairs should not be forgotten, as it has proven helpfut to both. Last, but not least, the Clab to order. The lice Bells of the order valuable special feature of Club to order. The lice Bells of the club to order by President Carter and Blac. **FARMERS' CLUB PICNIC.**The Farmers' Club picnics are all good, and the devolutions were conducted by Mrs. Hammond. As a set of the shole or divisability of teaching domestic for the the dink set of the shole. The forder was sung and the devolutions were conducted by Mrs. Hammond. As a set of the shole or divisability of teaching domestic for the first should not be forgotten. The neetting and order by President Carter the shole is sholed with and Blace.
Mrs. Faur the said: "The faunt set of the first set of the shole or order. The is a help to the first set of the shole is the shole or divisability of teaching domestic set of the shole or divisability of teaching domestic set of the shole is the shole or order. The is help to the shole is the shole or order. The is the shole and the devolution is most neally is need to be taught to cook, bake and seew at home thing, food values, of which but fer hardest work and hardest work and will soon have an electric failway nearby, some are argitating th fait at hills, will call for better hardest work and will soon have an electric failway nearby, some are argitating th fait at hills, will be were the shole stopic. The is a help to the work is the for hardest work and hardest work and longers the shole stopic. The is the shole of the shole is the shole is the shole of the shole is the shole is the shole



210 (18)

MARKETS

DETROIT WHOLESALE MARKET.

September 6, 1911. Grains and Seeds.

Wheat.—The wheat market has ruled with a slightly firmer tone during the past week, prices closing on Tuesday with a fractional advance over the quotations of that day for the previous week. Fu-tures advanced more than did cash grain. The decline on Tuesday's market was or that dvanced more than did cash grain. The decline on Tuesday's market was credited to profit taking by brokers who were long on supplies. Reports from Rus-sia show a change in the attitude of brokers regarding the crops of the coun-try, it now being certain that a general shortage in export wheat will be shown at the end of the year. In the Canadian northwest weather has been favorable for completing the plant's growth, except that in a number of sections frosts are reported. Foreign buyers are active, however, the world's exports were less than expected, and the quantity now crossing the Atlantic is on the decline. One year ago No. 2 red wheat was selling on this market at \$1.01¼ per bu. Quota-tions for the past week are: No. 2 No. 1 Red. White. Dec. May.

Red.	White.	Dec.	May.
Thursday 881/2 .	851/2	.951/4	.1.00
Friday	.853/4	.951/2	.1.00 1/4
Saturday901/4	.871/4	.961/2	1.01 1/4
Monday			
Tuesday 893/4	.863/4	.96	.1.00 3/4
Wednesday 903/4	.873/4	.97	.1.01 3/4
		St. 1. 1. 1.	

Wednesday ...90% .87% .97 .1.01% Corn.—A material advance is noted in corn quotations. Many sections report that dry weather has necessitated pre-mature harvesting of the crop in order to save the fodder. The outlook is more bullish each succeeding day, which will probably keep prices for this grain on a level for the year. One year ago the price for No. 3 corn was 60c per bu, which is nearly 7c below the present value. Quotations for the past week are: No. 3 No. 3 Corn. Yellow.

	Corn.	Yello
Thursday	66	67
Friday	66	67
Saturday	661/2	67
Monday		
Tuesday	663/4	67
Wednesday	67	68

Oats.—The advance noted in these col-umns a week ago was but the beginning of a wide upturn in oat prices, standard oats having gone to 45c per bu. this week. This price is nearly 11c above the quota-tions of a year ago when it was 35¼c per bu. The tone of the trade is steady at these figures. Quotations for the week are: Standard

Thursday Friday 44 Saturday 44

														(C	t.		No
Thursday	•									1	2				\$2	2.10	4	\$2
																2.10		2
Saturday			2										-		2	.05		2
Monday					í.		1		1	 								
Tuesday								4							2	.05		2.
Wednesd	a	y.								١.					2	2.05		2
AND STREET, ST						1												

Clover Seed:—For the first time in weeks a decline is noted in seed quota-tions. This is probably due to the mar-keting of surplus seed by farmers who are now hulling their crop. The decline amounts to about 75c per bu. Quota-tions are as follows:

											Oct.	Als1
Thursday	7										\$12.00	\$10
Friday .	1			2	5				 1		12.00	10
Saturday												10
Monday												
Tuesday						 					11.50	10
Wednesd	a	J	7								11.50	10
and the second sec												

Wednesday11.5010.25**Ryc.**—There is practically no dealing
in this grain, the market being firm with
No. 2 rye quoted at 88c per bu.Flour.—Market is quiet and easy with
values steady. Quotations are:
ClearClear\$3.90Straight4.15Patent Michigan4.60Ordinary Patent4.40Feed.—All kinds of feed are steady.
Carlot prices on track are: Bran,
\$26 per ton; coarse middlings, \$27; fine
middlings, \$30; cracked corn, \$26; coarse
corn meal, \$26; corn and oat chop, \$26

THE MICHIGAN FARMER.

71/2 7 3/4

he week No. 3 Wheat.—No. 2 red, 91@92c; Sept., 90%c; White. Dec., 95½c per bu. 42½ Corn.—No. 2, 66@66½c; Sept., 65%c; 43½ Dec., 63%c per bu. 43½ Oats.—No. 2 white, 44½@45c; Sept., 42%c; Dec., 46c. 44½ Barley.—Malting grades, \$1.05@1.20 per 44½ bu; feeding, 70@90c. Butter.—Receipts are fully up to the requirements of the trade and the mar-requirements of the trade and unsettled. Prices, however, show no change from Nov. last week. Quotations are: Creatmeries, \$2.05 2.05 Eggs.—All grades are quoted 1c high-2.05 tations are: Prime firsts, 18½c; firsts, 2.05 tations are: Prime firsts, 18½c; firsts, 2.05 tations are: Prime firsts, 18½c; firsts, 2.05 tations are: Parenter, and the mar-dozen. Protect a mark, cases included, 11@15c per dozen. Protect and the mar-protect and the mar-dozen. Protect and the mar-dozen. Protect and the mar-protect and the mar-the firsts, 18½c; firsts, 2.05 tations are: Prime firsts, 18%c; f

17c: at mark, cases included, 11@15c per dozen.
Potatoes.—Receipts of potatoes last week were more than 100 cars in excess of the preceding week and prices declined in consequence. Market reported weak with Minnesotas quoted at \$1.10@1.15 and Michigans at 90@95c.
Beans.—This market has lost some of the strength that has been in evidence for many weeks. Trade quiet at reduced figures on all grades. Choice hand-picked pea beans are quoted at \$2.15@2.25 per bu; prime, \$2@2.05; red kidneys, \$2.75@3.05 per bu.
Hay and Straw.—Hay firm at last week's advanced figures. Rye straw is \$1 higher. Quotations: Choice timothy, \$23 @23.50; No. 1 timothy, \$20.50@22; No. 2 do., \$18.50@20; No. 3 do., \$18.50@17; clover, \$10@14; rye straw, \$8.50@9; oat straw, \$7@8 per ton, wheat straw, \$5@ @6 per ton. $0.00 \\ 0.00 \\ 0.00$.25 0.25

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Chicago.

good timothy.
 OTHER MARKETS.
 Chicago.
 The esg market is firm, dealers paying the country trade 16e for fresh stock. Dairy butter is worth 20c, creamery, 25%. Deaches were ing good demand on the city market Tuesday morning, selling at \$100 175. Peaches were worth 75.c681; grapes 00075c per bu; muskmelons, 50c; toma-toes, 40%56c. Potatoes continue to bu the strongest article of produce offered, provide sections up the state are very fuesses to boling state. 165. Manuel conflicting.
 Wheat.—No. 2 red, 91@92c; Sept., 90%c; Dec., 63%c per bu.
 Chicago.
 Wheat.—No. 2 red, 91@92c; Sept., 90%c; Dec., 63%c per bu.
 Barley.—Malting grades, \$1.05@1.20 pri-bu; feeding, 70@90c.
 Butter.—Receipts are fully up to the requirements of the trade and the mark tis finders, 18@22c per bb.
 Barley.—All grades are quoted 1c higher than last week, 20%25c; dairles, 18@22c per bb.
 Deta.S. All grades are quoted 1c higher than last week, 20%25c; dairles, 18@22c per bb.
 Deta.S. All grades are quoted 1c higher than last week, bit for a mark, crases included 1c potatoes from the trength that has been in evidence tors. Roweek ere more than 100 cras in excess of the preceding week and prices from tat week. Quotations are: Creameries 20%25c; dairles, 18%22 per bb.
 Egss.—All grades are quoted 1c higher than last week, so and corn-fed me week's rates. Hous on a run of 29,000 but I at \$7.50 beller while it was largely at \$7.15 beller of a straweek torm. 400 por packers sold below \$7.15 beller of all grades are dozen.
 Deta...—All grades are quoted at \$1.100 1.15 and Mchigans at 900%25.
 Bans.—This market has lost some of fures on all grades. Choice and reduces the week's rates. House of reduces the some of the strength that has been in evidence packers and the off weak and while lambs scored 10 and beling scored off the market. Market for fures on all grades. Ch

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vious week's basis, a spread of \$5.25@ 6.10 taking most steers, and tops sold at \$7.

vious week's basis, a spread of \$5.25@ 6.10 taking most steers, and tops sold at 7. Tackers are again pretty well in con-trainer light but high cost of fresh meat is slowing down the demand to some ex-tent and a wider price spread is showing between heavy packing and good light and medium weight shipping grades. Au-gust movement throughout was close to 60,000 heavier than a year ago, but when it is considered that last year was an abnormal year the volume coming in the past month was still quite small. Sep-tember is expected to witness an expan-sion in the receipts, and weight of mar-keting being heavier now there is ex-pectancy of a still bigger general aver-age in pounds. Trend of trade opinions lean a little toward the bear side as re-sards the outlook for the next few weeks. Heavy marketing still proves burden-some to the sheep and lamb trade and it is a weak general market, with prices close down to lowest levels of the year Opinion prevails that values will remain low for several weeks, or at least as long at big supplies continue to come from the western ranges. By far the largest volume of the runs are range stock now and lambs form a big percentage of this. Idaho and Washington grass-fed stock is most conspicuous and sells at prices bave \$6.65, tops at \$6.50 and a good sort made \$5.75@ 6.15, while plain light stock hade down to \$5.50 and a good sort farmers at \$5.66@ 5.75. Best native lambs have not gone above \$6.50 and a good sort farmers at \$5.66@ 5.75. Best native lambs have not gone above \$6.50 and a good sort farmers at \$5.66@ 5.75. Best native lambs have not gone above \$6.50 and a good sort farmers at \$5.66@ 5.75. Best native lambs have not gone above \$6.50 and a good sort farmers at \$5.75@ 6.15, while plain light stock hade down to \$5, and culls at \$4 and good wees at \$3.75 while fair ewes went at output sole about time, since this stuff has been selling at money losing prices for weeks past despite relatively high retail prices. Fat native wethers have gone at sole about time, sinc

a plain grade of two-year-olds down to \$3.25. The horse market has undergone a pe-riod of sharp price reaction following some strong selling recently. Receipts were of heavy volume last week, nearly 1,500 arriving, which was 450 in excess of the corresponding week a year ago. The bottom dropped out of the market, a \$10 @15 decline being forced for most offer-ings and even on this basis many animals proved a drug. Eastern support has been withdrawn, temporarily, at least, and its absence is seriously felt, while local de-mand, being over supplied, is naturally apathetic. Only prime dratters reached \$225 and \$160@200 brought good grades while common sold down to \$125. Ex-pressers of fair kind sold around \$140@150 and common light horses down to \$100, with some thin old plugs around \$70@85. F.

LIVE STOCK NOTES.

LIVE STOCK NOTES. Murdo Mackenzle, for years general manager of the Matador Land & Cattle Co, which concern has ranches in Texas, Colorado, South Dakota and Canada, will relinquish his connection with that com-pany before the end of this year to be-come manager of the Brazil Cattle & Land Co., one of the Brazil Cattle & against certain features of the Canadian reciprocity bill injurious to live stock in-terests in this country. It is reported his new position will pay him \$50,000 a year salary. He will have supervision over a herd of upwards of 200,000 cattle in Brazil, besides half a million sheep. The Brazilian company is financed by Scotch and English capitalist. Ive stock markets are receiving a lib-relations wherein cholera is prevalent and that class of offerings gets low prices. It is a \$4.50 market for them now and de-mand is weak at that, since packers run risks of having the stuff condemned on post mortem examination. Healthy 100 to 20-lb. pigs, on the other hand, sell at mand is for other hand, sell at

to fixe the price of the trade the keenest de-mand is for strong weight, good quality steers which can be given a minimum amount of corn and returned for the win-ter market. Feeder buyers are paying 5.35%.55 for most of that kind, getting 1,000 to 1,100 lb. averages, and while the price appears rather high, when it is figured that weight bought at these fig-ures is not more expensive than the cost to put the flesh onto light thin steers, the investment is not considered especi-ally risky.

ally risky. Portland, Oregon, is still drawing heav-ly upon the ranges of Montana and the Dakotas for beef. Portland buyers are in the field there, paying relatively strong prices in their endeavor to swing the stock west, and this season have bought some big strings of steers of brands which for years previous have been seen only on the Chicago market. It is a sig-nificance of the growth of the beef de-mand on the Pacific slope as population increases.

Potatoes.—This deal is steady with a week ago, the supply holding the price at \$1.40 per bu, for fair to good grades. Demand is normal.

Demand is normal. Provisions.—Family pork, \$18.50@19.50; mess pork, \$18; medium clear, \$16.75@18.50; smoked hams, 16@17c; briskets, 11½@12c; shoulders, 11c; picnic hams, 10½c; bacon, 15½@16c; pure lard in tierces, 10¼c; kettle rendered lard, 11¼c per lb.

Dairy and Poultry Products.

September 4, 1911. (Special Report of Dunning & Stevens, New York Central Stock Yards, East Buffalo, N. Y.) Receipts of stock here today as follows: Cattle, 165 cars; hogs, 80 double decks; sheep and lambs, 70 double decks; calves, 1.200

Dairy and Poultry Products. Butter.—The improvement in pastures has created an easy undertone, with prices ruling steady for both creamery sheep and lambs, 70 double decks; calves, and dairy. Output appears to be a little fairy, 18c; packing stock, 17c per Ib. Eggs.—The tone of this deal is much firmer than last week and the basis of prices throughout the country is a little higher. In Detroit a one cent advance was made. Demand is brisk. Fresh re-

Elgin. Butter.-Market firm at 26c per 1b., which is last week's quotation. THE LIVE STOCK MARKETS Buffalo.

range values. A large share of fat steers has changed hands at $$7^{\circ}_{1.50}$ on the new price basis and only strictly choice heavy and yearlings grades have made $$7.60^{\circ}_{0.50}$ 7.90, while sales at \$8, which were quite numerous last week were conspicuously scarce. Native steers of warmed up and short-fed description sold at $$6.40^{\circ}_{0.685}$, and the grassers at $$5^{\circ}_{0.615}$, though fed-er buyers got bulk under \$5.40. Feeder 5.75 but common stockers and medium to good feeding steers declined $10^{\circ}_{0.20}$ cin sympathy with the beef steers, a decreat $$4.65^{\circ}_{0.55}$, good stockers around \$4.60 and plain at \$4, with a poor, thin kind down to $$3.25^{\circ}_{0.350}$. Fat cows sold mainly at $$4.55^{\circ}_{0.5525}$, holding last week's prices, went $10^{\circ}_{0.20}$ lower at $$3.75^{\circ}_{0.425}$, while cancers and cutters were steady at \$2.5, while at \$9.50, lighest of the season, while bulk made $$8.75^{\circ}_{0.9}$. Range cattle run for the week was 18,000 and prices held the pre-

THIS IS THE LAST EDITION.

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

DETROIT LIVE STOCK MARKETS.

Thursday's Market.

September 7, 1911. Catt.e

Receipts, 1,016. Bulls and canners strong; other grades dull at last week's

strong; other grades dull at last week's prices. We quote: Best steers and heifers, \$6; steers and heifers, 1,000 to 1,200, \$5.2505.50; steers and heifers, \$00 to 1,000, \$4.5004.75; grass steers and heifers that are fat, \$00 to 1,000, \$4.50@4.''5; do. 500 to 700, \$3.75@4.25; choice fat cows, \$4@4.25; good fat cows, \$3.50@4; common cows, \$2.50@3.25; canners, \$1.50@2.25; choice heavy bulls, \$4@4.50; fair to good bo-lognas, bulls, \$4@4.50; fair to good bo-lognas, bulls, \$3.50@3.75; stock bulls, \$3@3.25; choice feeding steers, \$00 to 1,000, \$4.50@4.75; fair do. \$00 to 1,000, \$4@4.25; choice stockers, 500 to 700, \$4@4.50; fair stockers, 500 to 700, \$3.50@4; stock heif-ers, \$3@2.50; milkers, large, young, me-dium age, \$40@55; common milkers, \$25@35.

stockers, 500 to 700, \$3.50@4; stock helf-ers, \$3@3.50; milkers, large, young, me-dium age, \$40@55; common milkers, \$25 @35. Cattle market closed 10c lower for me-dium grades; bulls 10@15c higher than the opening. Haley & M. sold Breitenbeck 14 cows av 997 at \$3.65, 30 steers av 865 at \$4.65; to Sullivan P. Co. 1 canner weighing 940 at \$2.50, 5 butchers av 634 at \$3.50; to Parker, W. & Co. 1 bull weighing 1,560 at \$4, 1 do weighing 1,100 at \$4, 1 do weighing 1,530 at \$4.25; to Bresnahan 5 heifers av 600 at \$3.75, 2 do av 625 at \$3.50, 9 canners av 871 at \$2.50, 3 do av \$43 at \$2.75; to Parker, W. & Co. 1 bull weighing 1,300 at \$4, 1 do weighing 820 at \$3.50, 2 do av 1,005 at \$4; to Applebaum 1 cow weighing 700 at \$3.25, 4 do av 945 at \$3.95, 3 heifers av 477 at \$3.60; to Rob-inson 20 feeders av 767 at \$4.30; to Regan 3 heifers av 543 at \$3.50, 12 do av 576 at \$3.80; to Sullivan P. Co. 4 butchers av 680 at \$4.10, 1 cow weighing 1,450 at \$4; to Regan 7 heifers av 577 at \$4.40, 4 cows av 1,013 at \$3.90, 17 butchers av 756 at \$4.25; to Parker, W. & Co. 1 bull weighing 1,000 at \$3.55, 1 do weighing 3,450 at \$4; to Regan 7 heifers av 577 at \$3.65; to Goose 7 butchers av 413 at \$3.50. Roe Com. Co. sold Parker, W. & Co. 4 bulls av 1,050 at \$4; to Goose 1 do weighing 370 at \$2.75, 2 do av 505 at \$2.90, 1 heifer weighing 370 at \$3.50; to Cox 8 stockers av 487 at \$3.35; to Sullivan P. Co. 2 do av 967 at \$3.25, jo 2 do av 935 at \$2.50; to Rattkowsky 8 butchers av 967 at \$3.40, 2 do av 290 at \$3.50; to Cox 8 stockers av 487 at \$3.25; to Sullivan P. Co. 2 heifers av 560 at \$3, 2 cows av 1,030 at \$3.50; to Bresnahan 2 do av 1,080 at \$4, 1 do weighing 700 at \$3; to Sullivan P. Co. 2 heifers av 560 at \$3, 2 cows av 1,030 at \$3.50; to Bresnahan 2 do av 1,080 at \$4, 1 do weighing 700 at \$3, 0 co 1,085 at \$4, 0, 2 do av 710 at \$4, 100 weighing 1,050 at \$4, 1 do weighing 700 at \$3, 0 co 1,085 at \$3.50; 2 do av 710 at \$4, 50; to Ford 1 stock-er weighing 730 at \$3.75, 1 do weighing 1,050 at \$4, 1 do av 774 at \$4.50; 3 canners av

THE MICHIGAN FARMER.

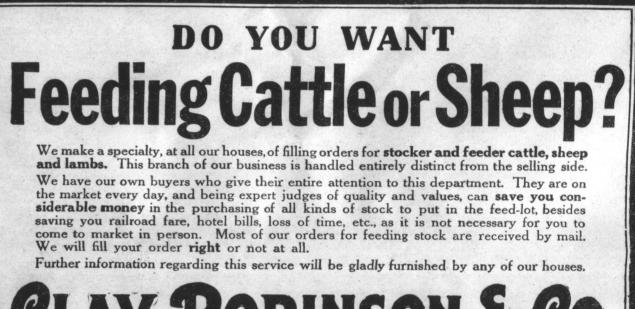
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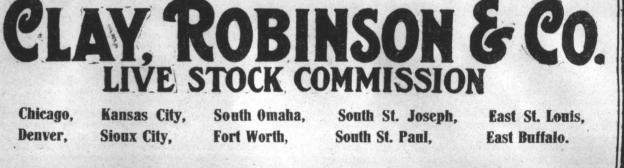
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Lewis sold same 96 do av 75 at \$6, 16 sheep av 120 at \$3.
Hogs.
Receipts, 3,752. Bidding Wednesday's prices; none sold up to noon; 10@20c low-er than last week.
Range of prices: Light to good butch-ers, \$6.75@7.30; pigs, \$6.56@7; light york-ers, \$6.75@7.30; heavy, \$6.75@7.25.
Bishop, B. & H. sold Parker, W. & Co. 710 av 200 at \$7.30; heavy, \$6.75@7.25.
Bishop, B. & H. sold Parker, W. & Co. 710 av 200 at \$7.20, 311 av 160 at \$7.10, 150 av 125 at \$7.
Roe Com. Co. sold Sullivan P. Co. 240 av 200 at \$7.25, 75 av 195 at \$7.20, 87 av 180 at \$7.10, 35 av 160 at \$6.75.
Spicer & R. sold Hammond, S. & Co. 250 av 200 at \$7.25, 150 av 180 at \$7.20, 48 av 160 at \$7.15, 120 av 190 at \$7.25.
Haley & M. sold same 96 av 180 at \$7.20, 87 av 160 at \$7.15, 92 av 160 at \$7.10.

\$7.20, \$7.10.

N. J. Cole, a farmer and stockman of Illinois, who was at the Chicago stock yards recently, said that farmers in his vicinity have experienced great difficulty in raising hogs this summer, many hav-ing suffered severe losses from cholera. Quite recently quite a number of little pigs from central Illinois have shown up in the Chicago stock market, having been hurried to market on account of sickness prevailing among the pigs, but the corn belt as a whole seems to have compara-tively little to complain of on this score, most droves of pigs being healthy. This is a time when farmers cannot be too careful about caring for and feeding their hogs, as prices for choice matured offer-ings are unusually high, with strong prospects for continuing so for several weeks at least.







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HOME AND YOUTH

SUNSET.

BY ALBERTA.

When daylight is leaving the woodland And touching the hilltops with gold, When bird songs are stilling to silence And the lambs are safe in the fold, Then Nature's most wonderful colors On landscape and lakes we behold.

'Tis a picture of wondrous beauty, Tho' we see it each eve in the west, And it gladdens the soul of the wanderer, Toiling homeward to family and rest, And he thinks that of all great paintings Surely this one must be the best.

'Tis a picture that ever is changing And yet is ever the same. That none can view without rapture And none can give it a name— This wonderful picture so changing That yet is ever the same!

The same hills that we've looked at The same our childhood, now years ago. The same old valleys and woodlands Where wild creatures still come and go. Yet o'er these familiar old landmarks Each sunset has cast a new glow.

To the soul that is thirsting for beauty, And the heart that is weary and sore Just look for the pictures about you, You may see them each day from your

door, "And you'll find that many rare treasures Are yours if you just look them o'er.

So, when daylight is leaving the wood-land And touching the hilltops with gold, We stand with our hearts thrilled to silence, Nand touching the hilltops with gold, Silence, Silence, So, when daylight is leaving the wood-gauge. "Getting pretty low," he sai have to replenish the supply." About a mile further on the

With the rolled, the clouds of care back of us

And gather new joy for the morrow From this beauty which all may behold.

WHAT'S IN A NAME?

BY HOWARD DWIGHT SMILLY.

The big touring car with its two occupants suddenly slowed down, turned to the side of the country road and stopped. The young men jumped out, climbed the rickety rail fence and following a faintly marked trail through the deep grass, disappeared into the wood that flanked the roadway

A few minutes later the bushes parted on the opposite side of the road, and a very bald head, surmounting a long lank neck, was thrust cautiously forth. After a careful survey of the surroundings the owner of the head stepped out into the road, at the same time beckoning behind him.

Another man appeared through the bushes and together they tip-toed steal-

first man in a low tone.

"Well, I reckon I can, John," was the er than the world renowned financier, scornful reply. "Why, I've got fifteen of John D. -" these things on my Canadian estates. Everything from the heaviest tourabout to the lightest runabout!"

"Hist!" whispered John suddenly, raising a warning forefinger.

young men had disappeared there came I am. Besides that, I think I saw a followed. They were the only passengers a loud splash followed by an exultant process server in that bunch. Let's get and the driver showed no inclination to yell. A second later these sounds were away before he has a chance to serve talk with them. repeated to the accompaniment of ear- papers on me." Towards night splitting whoops.

"Wait here a minute," whispered John. "I'll see what they are doing."

lowed the trail into the bushes while his partner watched apprehensively from his position beside the machine.

Several minutes passed during which Jim listened to splashes and shouts, won- onlookers. dering at their cause. Then his companion suddenly appeared, treading softly and carrying in his hand a lot of clothing, including two pairs of shoes and

Jim's side. "I've stolen their clothes. costed John first. find the proper inducements we may re-The Standard Oil Company "Tickets," said he. main here permanently and enter into Here; get into these quick; they're liable "This gentleman will take care of business." (Incorporated) to get through any minute." that," answered John, motioning to Jim. The landlord's curiosity was at once Rapidly the two divested themselves "Why, yes," said Jim cheerily, "we aroused and he inquired into the nature of their torn and muddy clothing, which showed evidence of recent hard usage, PATENT SECURED OR FEE RETURNED. Free Fatent Book, Selling Guide and List of Buyers and Manufacturers of Inventions. Advice Free, Send sketch. FARNHAM & SUES, Attys., 840 F. St., Washington, D.G. don't know where we are going, conduc- of their business. "Well," began Jim, "for my part, I an tor, but we'll ride until we get tired and and donned those of the young men. then you can give me a memorandum of considering building a railro-" This done, Jim cranked up the automo-W ANTED FOR U. citizens of U. WANTED FOR U. S. ARMY-Able-bodied, un married men, between the ages of 18 and 35 citizens of United States, of good character and tem perate habits, who can speak, read and write the En glish language. For information apply to Recruiting Officer, 212 Griswold St., Detroit, Mich.; Heavenrich Block, Saginaw, Mich.; Corner lat & Saginaw Sts.; Flint, Mich.; 110 East Main St., Jackson. Mich. "Shut up!" snapped John, giving him bile, the two jumped in and a second the amount of the fares and I'll have later were speeding swiftly away down them checked over to the company as a poke in the ribs. "You'll have all the directors in the country swooping down on you if it leaks out what you are soon as I get home." the turnpike. The conductor gazed at him in amaze-"That was easy," grinned John as a "That was easy," grinned John as a The conductor gazed at him in analyze on you in it leaks out what you are bend in the road hid them from the ment. "What are you talking about?" thinking of doing. Why don't you wait view of the two young men, whose cries he demanded. "Give me your tickets." until we know for sure." of dismay and rage had reached their "We haven't any tickets," answered "I guess you're right," acceded Jim, ears as they started off. Jim patiently. "We don't need any. I and then added to the landlord. "Our PRINTING For Poultry men, Live Stock Breed-ers and General work. Write for terms. C. N. MENDELS & SON., Gd. Rapids, Mich. ears as they started off. "It was that," answered Jim, who was never pay railroad fare." business is of a nature that can't be managing the machine. "We're safe "Oh, you don't, hey?" snorted the in- made public just now, but I can state enough now. This section of the country dignant conductor. "Well, you'll pay that we are here in the interests of the MENTION the Michigan Farmer when writ-ing to our advertisers.

THE MICHIGAN FARMER.

can't get to a 'phone quickly. We'll be next station. miles on our way before they can spread

exultantly. "They'll never catch up with man is no other than the world renowned this machine." railroad magnate, James-"

"You keep a sharp lookout, just the tell when one of 'em is going to bob up."

while they talked and now produced a fares. How much is it, conductor?" fat wallet from the inside of the coat. with bank bills of large denomination.

"Hello, this looks good!" he cried. "Gee! There must be at least a thousand in that wad."

"Fine, fine," said Jim, giving a sidelong glance at the wallet. "That's going to help us out a lot just now, too. It's a to rob those young fellows this shame shame to rob those young fellows this "That'll take you as far as Alston, Ok-way, but of course we had to do it. As "That'll take you as far as Alston, Ok-soon as we get where those men can't lahoma," he informed them. bother us, we'll send them a check for "That'll be all right," Jim assured him. bother us, we'll send them a check for everything we've taken. We'll probably find an address in the pockets."

"Yes, here's a card-case now," said John.

Jim threw the high speed lever open and they covered ground rapidly until mediately to a hotel and engaged rooms they had put at least thirty miles be- for the night. tween them and the owners of the car. Then he stopped and tested the gasoline next morning when Jim came rushing

"Getting pretty low," he said. "We'll

About a mile further on they came to ute and we're going to take it." small town and Jim brought the car to "What for?" John mildly inquired. a small town and Jim brought the car to stand in front of the store. A crowd of loungers promptly gathered around to and whispered the one word: "Directview the machine, much to John's dis- ors. comfiture.

storekeeper. "I 'low I have. How much'll you want?"

"Fill up the tank."

he had finished Jim asked about the cost. volver hanging from his belt, regarding er informed him.

"Here, John," said Jim, "it's up to you to pay this."

to pay this." "All right," answered John uneasily. The driver was on his seat and evi-"Just make out a bill and give it to me," dently waiting for them. As soon as he said to the dealer. "T'll send you a they were seated he whipped up the he said to the dealer. check for the amount when I get home." "Well, say, mister, you've got more large gentleman on the sidewalk gazed gall'n a pair o' Misouri mules!" snapped after them in open-mouthed astonishthe dealer. "I don't know who you are, no more'n Adam, an' you'll just hand "I dunno what ails that maverick," he over the price o' that oil in cash or I'll muttered to himself, "but I'll bet he's have the constable on you" have the constable on you.'

"My dear sir," said Jim suavely, placthily across the road and examined the ing his hand on the dealer's shoulder, "if that process server!" gasped John as automobile from all sides. you knew to whom you are talking you soon as they were well started. "He "Can you run her, Jim?" inquired the wouldn't be so impudent. This gentleman you were just addressing is not oth- to serve on me."

"Hold on there," John interrupted him hastily. "Come here a minute, Jim."

of the crowd. "You're too careless," he remonstrated. From the direction in which the two "I don't want these people to know who

"Where is he?" whispered Jim, casting a frightened glance over his shoulder. flower, some fifty miles distant from Al-"By Jove!" he added in sudden trepida- ston. They were both tired and hungry He climbed over the old fence and fol- tion, "there's a director standing right and at once repaired to the tave wed the trail into the bushes while his beside the machine, now! Come on!" and they asked for accommodations. seizing John by the arm he hurried him off down the street, without a word of ered son of the west regarded them with explanation to the astonished dealer and interest. The eastern tenderfoot was an

> the railroad station. A train from the road and in a section little visited by east was just pulling in as they arrived strangers. there, and Jim hustled his companion

seems to be sparsely settled and they fare this time or get kicked off at the

"My friend," began John, rising from the alarm. I'd like to see those railroad his seat and placing his hand familiarly directors catch me, now." on the conductor's coat sleeve. "if you on the conductor's coat sleeve, "if you "Yes, and I'd like to see those process knew to whom you are talking you servers get a line on me," put in John wouldn't be so impudent. This gentle-

railroad magnate, James-" "Stop that!" almost shouted Jim, jerksame," cautioned Jim. "You can never ing his companion down into the seat again. "Rather than have everybody John had been examining his clothing on the train know who we are I'll pay the

"Where're you going?" asked the still Opening this he found it to be stuffed indignant and somewhat mystified ticket taker.

"How far are you going?" "Pacific coast."

"Oh, well, we don't want to go that far? Here's a twenty dollar bill. When

we have ridden that out let us know and we'll get off." The conductor consulted his rate sheet.

"That's just the place we wanted to get to." The journey to Alston was uneventful

and when, in due time, they arrived at this small western town they went im-

John was still lingering at breakfast into the dining-room.

"Hurry up," he cried excitedly. "There's a stage leaving here in a min-

Jim placed a warning finger to his lips That was enough. John arose hastily

"Got any gasoline?" Jim asked the and followed Jim outside to where the coach was waiting.

As they crossed the walk to enter the vehicle John noticed a large man, wear-The dealer hastened to do so. When ing a huge sombrero and with a big re-"Two dollars an' sixty cents," the deal-informed him. off down the street had not Jim seized him and bundled him into the stage.

horses and drove rapidly away, while the ment

been stealing a hoss somewhere.'

"Gee! I had a narrow escape from

"Yes, and there were two directors waiting for me in the barroom," said Jim. "They were disguised as farmers, but I spotted 'em the minute I laid eyes He drew his companion out of earshot on 'em. That's why I hustled you off in such a hurry."

The two had things pretty much to themselves during the long drive that

Towards night they arrived at their destination, the small town of Sunand at once repaired to the tavern where

The landlord, a stalwart and bewhiskunusual sight in that locality, inasmuch Chance took them in the direction of as Sunflower is fifty miles from a rail-

"Yes, I 'low I can put you up," he told

FOUND RIGHT PATH After a False Start.

"In 1890 I began to drink coffee.

"At that time I was healthy and enjoyed life. At first I noticed no bad effects from the indulgence but in course of time found that various troubles were coming upon me.

"Palpitation of the heart took unto itself sick and nervous headaches, kidney troubles followed and eventually my stomach became so deranged that even a light meal caused me serious distress.

"Our physician's prescriptions failed to help me and then I dosed myself with patent medicines till I was thoroughly disgusted and hopeless.

"Finally I began to suspect that coffee was the cause of my troubles. I experimented by leaving it off, except for one small cup at breakfast. This helped some but did not altogether relieve my distress. It satisfied me, however, that I was on the right track.

"So I gave up coffee altogether and began to use Postum. In ten days I found myself greatly improved, my nerves steady, my head clear, my kidneys working better and better, my heart's action rapidly improving, my appetite improved and the ability to eat a hearty meal without subsequent suffering restored to me. And this condition remains.

"Leaving off coffee and using Postum did this, with no help from drugs, as I abandoned the use of medicines when I began to use the food drink." Name

given by Postum Co., Battle Creek, Mich. "There's a reason," and it is explained in the little book, "The Road to Wellville," in pkgs.

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



aboard. them. two hats. Dealers everywhere ; or "Swimming in the creek," he an-They took a seat in the smoker and "We may remain here some time," Jim write for descriptive circular direct to any agency of the

community and are prepared to invest what they're going to invest their million tunity.

"Millions?" gasped the landlord weakthousands in that section, but a million- the fields.

only millions, but tens of millions-yes, billions, if necessary! Why, do you know ber of golf sticks. who this gentleman is here?" he asked Jim was still growling when John, af-motioning to John. "He's the richest ter a clumsy drive, came over and sat man in the world! He's John D.-"

John interrupted him with another vig-orous dig in the ribs. "What's the mat-ter with you?" he growled disgustedly. "I suppose so," snapped Jim. "If that's "Can't you keep anything to yourself?" "Oh, suit yourself about it," retorted

Jim peevishly. "I can't see what harm Why do you do it?" it'll do way out here in the wilderness. we'll be much obliged to you, and then we'll go to bed. We're tired."

somewhat bewilderedly. He had never "You're a peach of a champion, you entertained millionaires before and the are," said Jim sarcastically. "Why, I've private jug after he had showed them to you sent to Chicago for the outfit. their rooms

his experience to those present, who were and bit, then I'll show you." for the most part, small ranchers and bit, then I'll show you." his experience to those present, who were, Naturally his story excited considerable Sunflower for a month. The populace, interest and there was much speculation forewarned as to their identity and probas to whom the strangers might be and able intentions, had held aloof from them, their possible business

the evening was Peter Red Feather. Peter know was a Kiowa Indian who had but reers, from whose congenial surroundings and influences he had been literally torn away against his will, several years before and compelled to undergo a course of ploded in the vicinity. study, under pale face instructors, in a college of the east, known as Carlisle.

was not a desire to mingle in the society the tavern, but rather that the fire-water of the pale face might mingle in him He therefore displayed but little interest the conversation of those present, was a different proposition. in standing quietly at the end of the bar and sipping his liquor in silent, stolid soliloguy.

However, when the landlord repeated for the tenth time that night, to a late thing good that might come their way. comer, the account of his conversation with the two tenderfeet, with its mengan to take notice.

"Where are these men?" he asked the landlord.

"Gone to bed," answered that worthy shortly.

"Don't you know their names?"

"No. Didn't either o' 'em register. One o' 'em started to tell me that the other's name was John D. something or other, but his pardner stopped him an' wanted to know if he didn't know enough to keep his mouth shut."

"John D, huh?" said Peter with a sud- and "Jipha of interest. "Was he tall since. den display of interest. and lank and bald headed?"

"He was that," answered the landlord, surprised at this fairly accurate description of his guest. "Do you know him?"

"Not personally, but I believe I know who he is, by reputation," answered Peter, and thereupon he related to his hearour mightiest financiers.

that he has got millions of dollars to invest in anything he sees fit, and it may be that he'll find a place to plant a mil-lion or two of it here. He must have John reflectively. "Yes, it's a good sugsome reason for coming to this out of the way place, and you can depend on it that make some money." he knows the reason. But, remember

millions of dollars if we find the oppor- in, and then you can freeze them out and make the profits yourself."

THE MICHIGAN FARMER.

Jim sat in the shade of a small tree, ly. In his mind a million dollars would in profuse perspiration, and swore softly buy up the whole state of Oklahoma. A as he wrathfully watched the approach man might find a place to invest a few of John, followed by a small boy, across

he took a deep breath at the thought. Beside Jim stood the youthful scion of "Certainly," said Jim cheerfully. "Not one of the ranchers and over the lad's shoulder was slung a bag holding a num-

down beside him.

what you call it, but I'm blessed if I can see anything in this game but hard labor.

"Why," answered John in mild sur-If you'll give us our supper, landlord, prise, "haven't I told you repeatedly that I am the champion golf player of the The landlord did as he was asked, you know."

novelty of it rather overcame him. He beaten you every game we've played so took an extra large drink out of his far, and I never heard of the thing until

'Oh, I know I ain't in what you'd ex-In the barroom that night he detailed actly call good form," admitted John. "But just you wait until I practice up a

regarding the two with a mixture of awe, Among those who happened in during envy and grim defiance. They didn't at what time one or the other would start investing a million dollars in cently returned to the land of his fath- something thereabouts, and they held a vague idea that should such a thing happen it might have much the same devastating effect as a ton of dynamite ex-

They didn't know whether they wanted ollege of the east, known as Carlisle. the two financiers to do any investing or Peter was of his fathers fathery and it not. If they did and it should prove a. benefit to the community, why, of the pale face that had brought him to would be all right; but, on the other hand, if, in so doing, John and Jim should gobble up everything in sight, as Peter Red Feather had intimated they might, that

Those simple country folk didn't pro-pose to be juggled out of their little holaings if they could help it, and, at the same time, they didn't want to miss any-

They were therefore hung up between two impulses: One-and a strong onetion of millions-yea, billions-Peter be- to ride the two invaders out of town on a rail, and the other to let them alone and find out how they were going to invest that million.

> This latter impulse had prevailed so far, and therefore Jim* and John had been unmolested; in fact, they had been left pretty much to their own devices, while the populace looked on from the distance, as it were, and awaited developments with the patience born of the west.

John had started the golf game early and had done little of anything else Jim had joined him in the play, not because he was an enthusiast-he was anything but that-but because John had insisted that it was the proper thing He was now, however, close to to do. the rebelling line.

"I can't see where knocking a ball around the pasture is particularly lucraers the life history and exploits of one of tive," he grumbled. "Why don't you do something that will be less arduous and "And if he is who I think he is," said more remunerative than this fool game? Peter in conclusion, "I can assure you Why don't you make some money? You're more celebrated for that than you are

gestion. I believe I'll start right now and

"How?" asked Jim, interested at once. "Why, the way I always have. I'll put this, he has never been known to give anything away that didn't return to him down some oil wells. a hundredfold. If he shows any inclina-"Where?" tion to invest here, keep your eyes open John got onto his feet and surveyed or you'll find out in the end that he has the surrounding country. "It looks pret-cleaned you all out of everything you've ty much all alike," he observed. "Seems to be about as likely a place as any right got and that he owns the whole reservation." here in this pasture. Yes, I believe Tll

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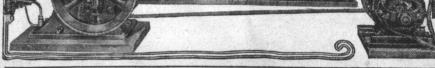
(21) 213

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"If that's the case it'd be a good idea buy this farm and drive a well right to run 'em out o' the country tomorrow, here," and he indicated a spot about ten before they get a chance to do any clean- feet away under a small bush.

in' out," suggested one of the ranchers. The two caddies, who had been silent "Oh, no," answered Peter. "Let them but attentive listeners to the dialogue, stick around and we'll see what they've now exchanged significant glances, and got up their sleeve. It's a cinch they've each carefully noted the spot to which got something or they wouldn't come way John pointed.

out here. That kind of business men "Do you know who owns this land?" don't go into an undertaking unless they the great financier asked them. are sure it is going to reap them twenty "Yessur, it b'longs to Barney Spencer," to fifty times the amount of the invest- they replied in unison. "He lives in that ment. Let them stay until you find out house right over there."



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back to the tavern with the golf outfits, and he and Jim started for the house indicated.

'That's a fine idea you've got, John,' said Jim on the way there. "Think you'll worth while for him to build one it is strike oil?'

think about it! Did you ever know me out of the project." to fail?"

In as much as Jim had never seen John idea and they acted upon it at once. bore for oil he had to admit that he hadn't.

thusiastically, "if you're so sure as that

They found Barney out in the barn mending a broken harness, and John proceeded to business at once. "I want to buy your farm," he said.

"I'll give you a million dollars for it."

The harness fell from Barney's nerveless fingers and his mouth dropped open, while his eyes took on a vacant stare. The inevitable had at last come! They were going to invest that million and he was the mark. It fairly took his breath away.

"What for?" he managed to ask after he had recovered himself to some degree. "Well, I am going to drive some oil wells and start a new industry in this community."

A gleam of understanding came into at once. Barney's eyes. News of the great oil strikes in Texas, with their resultant pecting happened. wealth, had percolated into even that remote section of the state of Oklahoma.

"Oil wells! Do you mean to say there's oil on my land?"

"Of course there is. What do you sup- fence. pose I'd be buying it for if there wasn't?" "An' you want to give me a million for it?"

"Certainly. That won't be a drop in the bucket to what I'll take out. Why, I and shut off the outpouring flood. expect it'll yield me not less than a billion!"

off a blow. The million was beyond his come famous the world over, without wildest comprehension, but the billion even the aid of a championship prize staggered him. He could only gasp and fight.

"Well," said John impatiently after a minute's wait," "are you going to sell?" like to think about it an' talk it over with the wife first. How much time'll you gimme?"

"Well, I don't want to crowd you. I'll give you until this time tomorrow. I'll call again then. In the meantime I believe I'll look around and see if I can't buy some more farms.

two minutes after their departure Barney was burning up the road in an effort to ern barroom, dejectedly condoling will get to town in double quick time.

He burst into the tavern barroom where several of his fellow men were Feather.

"She's come, boys!" he yelled. "They're to invest that million! They just goin' offered me that amount for my farm!"

The effect was instantaneous. Everybody except the Indian became interested and excited. He alone remained calm.

They listened breathlessly while Barney related his experience with the two financiers and then they turned with one ac-

cord to Peter for the explanation. "It's just as I told you," said the ex-Carlisleite. "They've discovered oll im this vicinity and will make a big thing out of it if you let them; but, you take it from me, they'll leave you poorer than you are now, if you let them get control of the thing."

"But how're we goin' to stop 'em?" asked Barney.

"That'll be easy enough. Refuse to "That'll be easy enough. Refuse to than those they had adopted this unlim-sell. If they are willing to pay a million ited wealth that had fallen to the comfor your property it is a cinch that it's worth at least twenty times that amount, munity might have never been discovered orth just much it is to them. Develop your own oil wells and freeze them out."

John immediately ordered the boys denly closed up like a clam, and refused to even speak to the two.

"Going to build a railroad, is he?" said Peter Red Feather when he was informed of Jim's ambition. "Well, if it's worth while for you. Build it yourself "Think!" exploded John. "There's no and make the money he expects to pull

And this everybody agreed was a good

Peter Red Feather, as the only educated man in the community, was selected "Well, I'll tell you what," he said en- to manage the undertaking. A pool was taken up among the ranchers and other I'm going to start building a railroad land owners, and five thousand dollars right away. We'll need one to ship out raised, and with this Peter and Barney the oil." same time Peter wrote letters to several eastern railroad contractors.

Within two weeks experienced oil well drivers with their apparatus were on the grounds and these at once proceeded to business

The site selected for the driving of the first well was the precise spot that John had indicated to Jim when the sudden determination seized him to commence making money. This was pointed out to the drivers by the two ex-caddies.

In the meantime the railroad people arrived and were given contracts to build road between Sunflower and Alston, to be pushed to completion as rapidly as possible. Construction on this was begun

And then just what everybody was ex-

The well drivers had got down a bare two thousand feet when they struck such a gusher as blew the drill a mile into the air and kicked the derrick clear over the

They had never seen anything like it, the oil men declared. The land around that section was fairly swamped with oil before they could get control of the well

It was, beyond a doubt, the greatest strike the west had ever seen, and the Barney threw up his arm as if to ward village of Sunflower was destined to be-

Naturally the news of the great strike spread like wildfire over the entire country. The newspapers paragraphed it un-"I dunno," Barney weakly replied. "I'd der headlines a foot high, and with it the story of how two of the country's mightiest financiers had been frustrated in their efforts to acquire possession of the properties, and had been completely frozen out by the natives.

As a result of this last item there arrived in Sunflower three days later, two men, in gray uniforms, who strolled John and Jim started away and within quietly around the town until they discovered Jim and John seated in the tav-

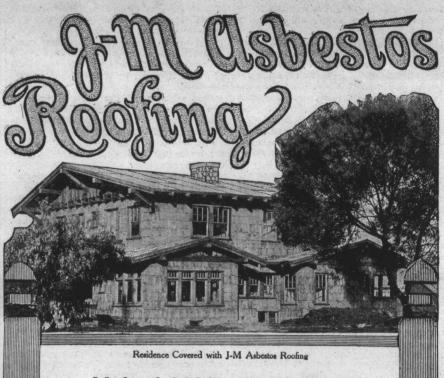
each other over their misfortunes. Silently the two men crept up behind the unsuspecting pair and a second later congregated. Among them was Peter Red had slipped handcuffs onto their wrists and taken a firm grip on their coat collars.

> To the astonished landlord and several others who witnessed these proceedings they explained briefly:

"They're a couple of lunatics who escaped from the Granville insane asylum about two months ago. We have been searching the country over for them and when we read about the big oil strike here and their connection with it we at once suspected that they were the men we were looking for and we hustled right out here. They are quite harmless, but they labor under the delusion that they are multi-millionaires and that they own all the oil wells and railroads in the world."

All of which had a decidedly numbing effect on the citizens of Sunflower. Had it been two men by any other names -which all goes to show, as Shakespeare says-"What's in a name?"

THE MICHIGAN FARMER.



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Everybody at once fell in with this idea. Messengers were quickly dispatched to the surrounding ranches to warn the owners not to sell at any price, and the tavern dining-room, from which Jim English. and John were excluded.

WATCH THE "IRREGULARS."

BY CLARA J. DENTON.

A very funny little book might be writthat night a mass meeting was held in ten on the inconsistencies of incorrect I once heard a teacher correct a pupil thus: "No, Johnnie, you must

The chagrin of these two gentlemen, not say 'the bell has rang,' say, 'the bell when they discovered that no one would has rung,' " and the next moment, turnsell them a farm, or even the part of one, ing to another teacher she said, "I have was great. For the next few days John did that four or five times," and she was exerted himself to the utmost in an quite unconscious of her own glaring ineffort to acquire even an acre of land on consistency.

which to commence amassing wealth, and We never hear the most careless speaker say, "I gone there yesterday," while Jim was equally energetic and unsuccessful in trying to buy a right of way for it is exceedingly common to hear the his railroad. The community had sud- solecism, "I done that yesterday." This RAILWAY

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a little care. Open your grammars at the table of irregular verbs. Now, if you will only remember never to connect any form der, even while I laughed, that she might of the verb to have with the past tense of any of these verbs, save in the few cases where the past and perfect forms are the same, as in the verb sweep, where swept is both the past tense and the perfect participle, you can make no mistake er's wonder and concern while hundreds in this part of the English language. Also, since you are never to mention the past form of the verb with the auxiliary have, at the same time you are not to mention the perfect participle without the verb to have. If you will go carefully over the list of irregular verbs, supplying have in the proper places, and leaving it off where it doesn't belong, you will, I think, have the philosophy of this law so thoroughly established in your mind that you will never be guilty of saying either, "I done it," or "I have did it:" you are one of those to whom these distinctions do not come easily. A very dignified and handsomely dressed lady, who was presiding over a large assembly of educated ladies recently, annoyed many of her audience by her continued repeti-tion of the phrase, "I done it." If she were the only sinner in this respect the incident would scarcely be worth repeating, but, unfortunately, she is the representative of a large class of people who need sadly to make a careful study of the page of irregular verbs.

JUST OUT WALKING.

BY HATTIE WASHBURN.

It is deplorable as well as detrimental to the health of humanity in general, that the most primitive means of human locomotion, walking, when indulged in for the sake of health and enjoyment, should be of such rare occurrence as to cause comment and wonder. Yet, with out autos, trolleys, horses and other means of quick and easy conveyance, people who take long walks for mere pleasure, are becoming so rare as to excite wonder and often laughable speculation, as the writer knows from, personal experience.

Having long since indulged in a daily walk, I have become familiar with every bit of country within walking distance of my prairie home; have derived great benefit and pleasure thereby and now and then been the cause of mystery and wonder. But my friends and neighbors being used to my peculiarities, it was visiting in a strange country.

While staying in southeastern Minneprairies and possessing a keen sense of point. the beautiful in nature, can revel in such winter, I took prolonged walks, often over rough roads, through deep snow and in inclement weather. Despite warnings and dire prophecy to the contrary, they but improved my health and vigor.

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While visiting in the outskirts of a beautiful little city, one morning I walk- yond control. ed down town with an aged uncle. A where this is spanned by a great bridge, I left my escort to pursue his way, and descending the bank, followed the course of the stream. How beautiful it was and who, versed in nature's lore, would tread cement walks to gaze upon man's structures of wood and stone, when such a banks?

For a way its beauty was disfigured here and there by unsightly rubbish dumped along its course at random, but when free of the city at last, nature's handiwork was unmarred by the agency of man. ways intruded there, but so long has man them to get emptied. You may not need within her realm, nature loves gliding train lends beauty and animation will not fail you because of your neglect. to a scone.

sad mixture might easily be avoided by there and walked along the stream. What suspicion caused her concern she did not say, but I thought with a shudhave thought me a suicide, seeking in desperation the only open water in the frozen river. I only followed the lure of the stream with the happy innocence of a child, and unwittingly aroused a strangmight have trod the walk before her home without arousing question or com-

> ment. This is but a laughable coincident, yet it sounds a warning. Have women who walk for the sake of health and enjoyment alone, become so rare that one wandering in nature's realm or walking along a highway where teams and autos frequently pass, should be an object of suspicion? It is to the detriment of the human race if this be true.

While it is not advisable to reject a "I seen it," or "I have saw it." Try it if means of quick and easy conveyance and walk from place to place for the sake of exercise, we realize that there are many who pass time much less profitably and enjoyably that might be spent in that gentle, yet invigorating and pleasurable form of exercise, walking in nature's beautiful out-of-doors.

> Only those who have indulged in a daily walk understand the benefit derived therefrom and realize how little cause for wonder or comment should be one who is "just out walking."

FIRE PROTECTION ON THE FARM.

BY LALIA MITCHELT.

When you invest fifty dollars in an insurance policy try investing five in fire protection for the home. A fire prevented is much better than one paid for after the house and all its contents have gone up in smoke.

First buy a large open mouthed crock and place it in a closet off the kitchen, in the landing at the head of the cellar stairs, or if preferred in one corner of the pantry. Keep this filled with common salt, and closely covered. Some day the soot in the chimney may take fire and if a liberal amount of salt be at once thrown into the stove the gas arising from it will extinguish the flames. More farm houses burn from fires in chimneys than from any other cause. Next build a light but firm ladder long enough to reach to the eaves of the Buy two large tin pails and to house. one attach a rope long enough to reach from the roof to within two or three feet of the ground. Put these under for me to arouse greater sensations when the back porch where they can be easily reached. When lightning strikes the house or a spark from a burning bonfire sota, I reveled in the wonderous beauty ignites the dry shingles of the roof a of hills, streams and woods as only one bucket brigade acting promptly will probhaving grown to womanhood on the level ably confine the flames to their starting

Very often the head flying from a picturesqueness. Although it was mid- match or mice gnawing these same dangerous bits of wood and brimstone left in a bureau drawer start a fire on the second floor which could be extinguished very easily the moment it is discovered, but which, by the time water is brought from a well in the yard, has gotten be

If possible have a heavy woolen rug wooded river flows through the town and in every room and if the flames start in curtain or drapery they may be exa tinguished by tearing them down, throwing them on the floor and smothering them with the rug. Another precaution is the keeping of large corked jugs of water in every closet. If a liberal layer of charcoal is placed in the bottom of the stream lured her to wander along its jug the water will not sour and some time, that one jug of water carefully poured over a fire may extinguish it and save the house.

Every member of the house should know exactly where to find the fire fighting paraphernalia, and, most important Fences, roads, bridges and rail- of all, don't buy the vessels and then allow them for ten years but be sur them as her own, for a team, an auto or they are needed on the eleventh they

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The Majestic is put together with rivets (not bolts and stove putty) making it absolutely air tight, like an engine boller. The joints and seams will remain air tight forever as neither expansion nor contraction can affect or open them.

Pure Asbestos Lining

In addition, it is lined with pure asbestos board, covered with an open fron grate—you can see it. No heat escapes—no cold air gets into the oven—saves half the fuel and assures perfect baking.

Movable Copper Reservoir

The reservoir is all copper, heated like a tea kettle through copper pock-et (stamped from one piece of copper) setting against left hand lining of fire box. It boils 15 gallons of water in a jiffy and, by turninglever, the frame-and reservoir-moves away from fire. This feature is patented and can be used only on the Majestic.

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It's the best range at any price, and should be in your kitchen. It is for sale by the best dealers in nearly every county in dostates. If you don't know who sells them in your vicinity, write us and we will tell you, and send you our booklet, "Range Comparison". Every farmer's wife should read this booklet.

Majestic Mfg. Company, Dept. 21 St. Louis, Mo.





Rejoicing in each charm of the icebound stream, I wandered along its course for miles, oblivious of the flight of hostess concerned because of my protale to tell.

When he returned to the bridge where he had parted from me a short time before, he found a woman with a shawl is very tiresome, but complementary colfore, he found a woman with a snawl thrown over her head, looking over the ors, since they furnish a stimulus that is rail in the direction I had gone. Seeing approximately even and general to the him, and perhaps recognizing the old color sensations, are very agreeable and gentleman as my recent companion, she resting to the eye. These complementary explained that she was concerned be- colors result for the confusion of light

COMPLIMENTARY. COLORS.

It is a generally understood fact among time, and returned at last to find my physicists and students of color that certain colors when combined in two's, longed absence, while my uncle had a produce a sensation upon the eye the same as white. Such colors are called complementary. When one looks for a long time at a single color the experience explained that she was concerned be-cause a woman had descended the bank rays of various lengths so that none them can effect a color on the retina. none of

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