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DETROIT MICH., SATURDAY, JUNE 4, 1910.

FARM NOTES.

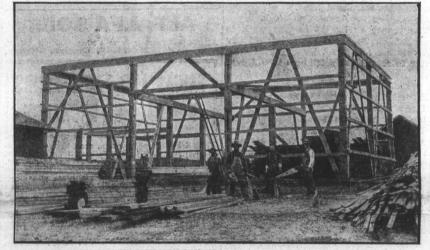
The Spring Work. The very early start that was made with the spring work upon most Michigan farms, did not mean the early planting of corn in most cases. The oat crop was gotten in some weeks earlier than common, but the wet and cold weather deof May in most sections of the state. this week. The average farmer in our of seed. For this reason the writer will fallacy and the best time to plant any section planted at about this time and reports coming from various parts of the state indicate that the bulk of the corn crop was planted during the last two weeks of May. However, the early and favorable spring for plowing resulted in the early plowing of the corn ground and a better preparation of the seed bed. This will undoubtedly mean an advantage to the crop as the grass and weeds will not only be better subdued, but a larger amount of fertility will be made readily available and a better seed bed prepared which will undoubtedly insure a better stand of corn than where the fitting is neglected in order to get the corn in when the plowing has been necessarily delayed. And even if the corn crop was not planted as early as was expected upon the average farm, it was in the ground from one to two weeks earlier than last year in most cases, and as soon as the weather was at all favorable for the quick germination of the seed and the rapid growth of the young plants. Considerable difficulty was found in the securing of good seed corn in many cases, owing to the fact that last year's crop matured late. But the importance of good seed is more generally recognized than ever before and we believe that the character of the seed planted this season upon most Michigan farms was such as will insure a good stand and with favorable weather conditions a good crop of corn this year.

The Potato Crop. Reports are coming in from different sections of the state to the effect that the area of potatoes grown will be reduced this year on account of the poor market which has prevailed for this product during the present season. Whether this condition will prevail the country over or not, can not, of course, be told at this time. If so, it may be a' repetition of the old maxim, that "Cheap seed makes dear potatoes." In the writer's opinion, the only way to secure ultimate success with this cash crop is to make it about the same relative factor in the farm production each year. Unlike most other staple products the price received for this product each year must depend upon the production of that year, and its relation to the demand for the tubers. The past season is not the first one in which potatoes have sold for an abnormally low price, nor is this so surprising when one thinks of the shortage last year and the ondingly increased production which may doubtless be ascribed thereto. The writer will grow his usual area of potatoes this year and fertilize them in the same liberal manner, past experiences having shown that, one year with an-

ered in planting this year's potato crop formaldehyde to 30 gallons of water and noted, will be likely to have far better is the kind of seed that is used. The average farmer will not plant many marketable potatoes when they are selling at most economical and satisfactory. from 50 cents to \$1.00 per bushel, as was the case last year at planting time. But up the old question of the moon in relawhen they are selling at 10 to 20 cents when they are selling at 10 to 20 cents up the old question of the moon in rela-per bushel, there is no good reason for tion to the planting of beans, the inquirer planting poor seed and this is the time stating that some advised him to plant when is the best time to make clover Lenawee Co. F. W. D. when a larger quantity of seed per acre before the full of the moon, and others

by frequent experiments at different sta- which is right. Now, this is another one seed, but in the value of the hay crop as tions throughout the country that better yields are secured where a liberal quantity of seed is used, it being found in many which will keep bobbing up, as cases that the most profitable yields were younger generation receives the idea secured when from 16 to 20 bushels per Whether the seed acre were planted. should be cut or planted whole is one of planted at such time as will bring it to the questions which will ever recur among maturity during the period of the full layed corn planting until after the middle potato growers and which can never be settled to the satisfaction of all of them. than would otherwise be the case because Upon the writer's farm, the first piece But here again, under normal conditions of corn was planted on May 21 and the experiments seem to indicate that it is last piece was finished the early part of more profitable to plant a liberal amount

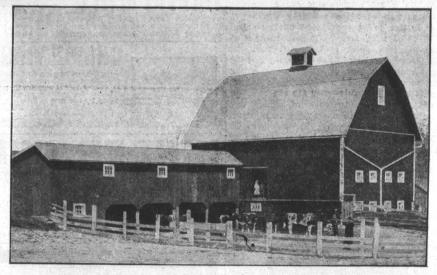
of those questions which ought to have been definitely settled years ago, but tively early. It should not be allowed to each from its elders. The theory upon which this idea is based is, that if the crop is moon that it will mature a better crop of the beneficial effects of the light of the full moon in the ripening of the crop. This, however, has been proven to be a



A Simple Type of Plank Frame Barn in Process of Erection

which will make it unnecessary to cut any but the very largest of the potatoes used. There seems to be about the usual interest manifested in the treating of seed for scab. Where there is any considerhowever, this should not be neglected may reasonably be expected to be favorlarge quantities are to be treated, the gas method previously described in these col- its ripening before frost and preferably umns may be profitably employed. But before the fall rains usually come, since

plant as large seed as will conveniently crop is when the weather and soil condipass through the hand planters used, tions are best and when the seed bed is properly fitted so that the seed will germinate quickly, the young plants develop rapidly, assuming, of course, that it is planted at such time as, in the average season, will bring it to maturity at a able amount of scab present in the seed, time of year when weather conditions since it is both cheap and effective. When able. For instance, the bean crop should be planted early enough so as to insure for the average area and quantity of seed this will favor the saving of the crop in



Up-to-Date Farm Barn of A. M. Prosser, of Oceana County.

other, this is the most profitable course, simply soaking the seed in a solution the best condition. The farmer who gives Another factor which should be consid- made by adding one pound of commercial the most heed to conditions such as above soaking the seed one and one-half hours success in growing maximum crops than in this solution before cutting will prove will the farmer who pays attention to the phase of the moon when the seed is put When to Plant Beans. in the ground. We are in receipt of a letter bringing

When to Cut Clover Hay.

Best results are secured not only in the summer. should be planted, as it has been shown to plant at the old of the moon, and asks prospect of getting a good crop of clover

well, where clover hay is cut comparastand until a considerable portion of the blossoms are turned brown, as is the too common practice upon the average farm. Undoubtedly most of our hay is allowed to get too mature before it is cut. The feeding value of our hay will be very much more enhanced by cutting it early, before the stems have developed too much woody fiber. Not only will its feeding value be greater, but it will be more palatable and eaten better by the live stock of all kinds, so that there will be much less waste in feeding it. Then, where it is cut comparatively early, the second crop comes right on rapidly, while if allowed to stand too long, the new buds will start up from the crowns of the plants and the tender stalks will be clipped off in mowing the hay, so that it will take much longer to get a start than would be the case if these buds would come on and grow in the natural way, as they will do where the clover

75 CENTS A YEAR \$1.50 THREE YEARS

hay is cut early. The Crop Rotation.

I have six acres of medium sandy soil, covered with a light sod, where the pas-ture is mostly killed off. I am putting about 60 loads of fairly well-rotted horse manure on it. Will this produce as good a crop of corn as cow manure? Will it leave the ground in as good a condition for potatoes as cow manure would? Wayne Co. M. W. L. Ground fartilized or communication

Ground fertilized as described in this inquiry should produce a fairly good crop of corn. The kind of stable manure applied does not particularly effect its value for the crop planted this or the succeeding year, although horse manure, particularly if well rotted as described, will nitrify or decompose into soil humus more rapidly than other kinds.' It is, however, not particularly good practice to plant potatoes following corn in the crop rotation, unless provision is made for maintaining both the supply of humus or vegetable matter in the soil and available plant food for the growing crop, which, in this case, could be done by sowing rye as a cover crop in the corn and applying another dressing of stable manure during the winter or spring before the ground is plowed for potatoes, or by using a liberal application of commercial fertilizer for the potatoes after the ground is plowed. Unless such practice is followed, it is not a good plan to grow two cultivated crops in succession upon the same field.

THE CORN CROP.

Our corn was in the ground May 16. after which we turned our attention to getting in the potatoes. Then came on rains, so we have not been able to har-row the corn fields yet. In the one first planted the corn is just coming up. Last year a spell of wet weather at about this time prevented working the corn fields until the corn was several inches high. We like to harrow the field a couple of with the spike tooth jus before the corn comes up so as to put the weeds back and give the corn about a week the best of the weeds, then the cultivator can be started before they are too large to cover up, but of course we must be governed by the season.

I think there are two things more than anything else that contribute to a poor corn crop, the first is a failure to get into the field soon enough after planting, and the second is a failure to stay there long enough. Of the two practices, I believe the first is the worst. It invites extra work or partial failure, while the neglect to cultivate long enough will do no harm if there is plenty of moisture during the

After the harrowing and as soon as the

rows can be followed, we like to cultivate bottom with the fine particles upon top with a rather small shovel, using guards and the uniform density is lost. to protect the corn and going as close to it as possible, which is quite close if the rows are straight. Then if the ground is in the right condition one can clean out laborer who persists in so doing is damthe weeds, starting in the hills with a aging your work, for you cannot secure horse weeder, if not the ground can be strong concrete of a uniform density unpretty well cut by crossing with a culti-less it is placed in a manner that will vator if the corn is in hills. By the way, not separate the various particles from I think this is the best way to plant and each other. notice that a large number of farmers are discarding the drills used a few years ago. On large farms and in certain neigh- consider that as the concrete is heavy borhoods the check rower is much used, and in careful hands does quite accurate settled into place of itself; this is far work, almost as rapidly as a drill. Small from the fact and every four inch course farmers can use the hand planter or rent a check rower.

The second time through the field I tamping the greater the density of the like to let the cultivator go in pretty well, wall and this is an important aid to say four or five inches, if this does not strength. tear up the sods. Then the succeeding cultivations can grow more shallow as the roots spread out, the shallowest being after harvest, when we go through with using a finishing coat mixed with a a fine-tooth cultivator, once in a row, and stir the soil within about six inches of the row.

Calhoun Co. S. B. H.

A CEMENT GRANARY.

I noticed an article in The Farmer some time ago, in which it was said grain could be kept in a cement granary, pro-viding the last coat was properly mixed. Some time ago, when I built my barn, I put a cement floor in the granary. There was also a stone wall along one side. I found after trying this that I could not keep grain in good condition. Now I would like Mr. Lillie's advice in regard to this matter. St. Clair Co. A. F. A number of years ago my father built

A number of years ago my father built a solid wall brick granary. The bricks were laid in common lime mortar, then it was plastered on the inside with common lime mortar. The intention was to use no covering of wood on this plastered wall. This granary was built in August and was hardly thoroughly dried out be-fore threshing time when grain was placed in. The grain gathered dampness from the wall and some of it molded. The next year I lined the inside with matched lumber in the bins to keep the grain away from the wall. Since then, of course we have had no trouble in this respect. The floor in this granary originally was supported by joists, but they dry-rotted and the floor broke down. Then I took out the joists and put in rock elm sleepers. After a few years they also dry-rotted and broke down. Then I cleaned the whole business out and filled it up with sand and stone and put a cement floor in. But I was afraid to put grain on this cement floor, so I covered it over with boards. Later on the yield of grain increased so that we had to use what was formerly an alley in the granary as a bin and this was not lined with lumber when grain was put into it. So far as I know, none of the grain has gathered dampness and molded when it came in contact with this side. Last winter this bin was filled with peas and oats and they remained in there, some of them until this spring, and there was no mold or gathering of dampness. I have talked with a number obout this condition and they claim that the reason why the grain molded in the first place was because the brick wall was not thoroughly dried out and the grain gathered dampness from the wall. That if the granary had been built earlier and had been thoroughly dried out before the grain was put in, that there would have been no damage. Using this last bin without any damage seems to corroborate this theory, and I have been told that elevators are built with cement floors and cement bins and used for the storage of grain with no loss from this cause. I don't like to take down the board lining against the walls of the granary for fear the grain will spoil and so I leave them up. I am of the opinion that if the granary was plastered on the inside with a rich coat of cement mortar that it would be practically impervious to water and grain would keep after the wall was once thoroughly dried out, but from actual experience I do not know. COLON C. LILLIE.

MAKING GOOD CONCRETE.

Placing of Concrete,

It is a mistake to throw the concrete from the mixing platform to the wheelbarrow and from that to the space to be filled; when you throw a shovelful of concrete the pebbles are heavier than the sand and cement and hence they are positive to separate from the mass and travel faster, thus when it has settled Into place the large aggregate is at the ing tools are in good order.

THE MICHIGAN FARMER.

Concrete should not be thrown or drop

ped into the forms at a distance of over

three feet, for the above reason, and the

Another cause of weak spots in your

wall is the lack of proper tamping, many

it requires little or no tamping and will

should be tamped evenly and thoroughly;

Finishing the Work.

sand; this should not be over one inch

thick and is better one-half to three-

quarters and while it does not add to the

strength of the work to any great extent,

Again, to use a coating of neat cement.

made by mixing plain cement in water to

the thickness of cream and applying with

a brush is an aid to a neat finish and also to making the wall more weather-

proof, as the neat cement brush coat fills

in all the little minute pores and thus seals the wall against the penetrating

Curing or Aging the Work.

Properly made concrete makes its ini-

tial set within 30 minutes to one hour

permanent hardness. If your work dries

out quickly and in a few hours cannot be

dented with the fingers, it is drying too

fast and water should be sprinkled over

the concrete cannot be dented with the

fingers within five hours, for as much

damage is caused by too rapid drying as

sprinkling, when a damp, cloudy day the

work will dry slowly and have greater

strength; if a dry, hot day then sprinkle

within six hours and once or twice a day

for the first two weeks if the weather is

such that the water dries off the work

rapidly. After the work has attained its

initial set and become hard enough so as

not to dent easily, the water you apply

will not injure, even if too much, so you

need have no hesitation in wetting the

Some Useful Hints for the Concrete

Worker.

general run of farm concrete work, yet

this is not to be considered as the equal

of a 1:2:4 mix, for, while one sample of

the pit run sand and gravel may be evenly proportioned, yet it could not be

expected to be that way in the entire pit;

but as the labor of grading the material

would be too much bother for the average

farm job, the substitute of using one

Portland cement to six of pit run gravel

In large walls, as barn foundations or

in any wall of eight inches in thickness.

a very great saving may be effected by

using cobblestones running from two to

six inches in diameter. Have these wet thoroughly so as to cleanse them of every

particle of dirt; also, so that they will

best method of placing is to lay a course

inch course of concrete and tamp down

with same, thus imbedding the stone

firmly into the concrete. Where the stone

is to be secured upon the farm this will

make a material saving in the cost and

Use only a standard brand of cement; be positive that it has been stored in a

dry place and is free from lumps; your

property and even your life may depend

on the quality of this cement and the

brand that is just a little cheaper can-

not weigh in the scales against the issues

A. A. HOUGHTON.

without injuring the strength,

ton of each

The

be wet when placed in the wall.

is generally employed.

stone

of the

at stake.

Wayne Co.

While a 1:6 mix is advocated for the

atmosphere must determine the

same; you are safe in applying water

it is capable of a finer finish.

effect of moisture and frost.

to crumbling.

by any other cause.

The

work often.

HARD ON CHILDREN When Teacher Has Coffee Habit.

"Best is best, and best will ever live." When a person feels this way about Postum they are glad to give testimony for the benefit of others. A school teacher down in Miss. says:

"I had been a coffee drinker since my childhood, and the last few years it had injured me seriously.

"One cup of coffee taken at breakfast would cause me to become so nervous that I could scarcely go through with the day's duties, and this nervousness was often accompanied by deep depression of spirits and heart palpitation.

in fact, the more pressure you exert by "I am a teacher by profession, and when under the influence of coffee had to struggle against crossness when in the school room.

"When talking this over with my physi-The main objection to a coarse mix is cian, he suggested that I try Postum, so the rough surface. This is overcome by I purchased a package and made it carefully according to directions; found it exgreater proportion of cement and finer cellent of flavour, and nourishing.

"In a short time I noticed very gratifying effects. My nervousness disap-peared, I was not irritated by my pupils, life seemed full of sunshine, and my heart troubled me no longer.

"I attribute my change in health and spirits to Postum alone."

Read the little book, "The Road to Wellville," in pkgs. "There's a Reason." Ever read the above letter?

new one appears from time to time. They are genuine, true, and full of human interest. ALFALFA SOIL.

The proper curing of cement work is essential, as upon a hot day it will dry out too fast and must be sprinkled with Alfalfa Soll for sale from a nine year old Alfalfa Field. SANFORD GASSER, Sherman, Michigan, water to retard the setting so it will cure

more slowly, otherwise it has a tendency FARMS AND FARM LANDS FOR SALE OR EXCHANGE From that time until it is 28 days old it does not complete the permanent set and while it is hard enough for some uses yet it has not accomplished the final and

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FOR SALE High Grade Farm Lands In Osceola county near Tustin, Michigan. These are cut over hardwood lands, without pine stumps. The soll is gravelly or rich clay. Well settled country with schools and good roads. Write for litera-ture. H. W. MARSH. Manistee, Mich.

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

And And

FOR SALE-Select corn and other lands in South-ern Michigan. Write now for list. The Ypsilanti Agency Co., Inc., Ypsilanti, Mich.

FOR SALE CHEAP farm lands in Gladwin and "Un SALE UNLAR farm lands in Countries. Suitable lare Counties. 25,00 acres, 40 acre tracts or more. Suitable or growing all the farm crops of fruit. Fine stock lands, well trassed over, pure living water. Payments easy, 6 per cent A. J. Stevens & Co., Gladwin, Mich.

DISSATISFIED IN MICHIGAN. PROSPEROUS IN KANSAS.

PROSPEROUS IN KANSAS. I am a farmer and have lived in Mich-fan foor thirty-five years. I like Michi-an people and I am trying to get as many as I can for neighbors in my new home in Benton County. Arkansas. I feel that I am doing a favor for every farmer whom I interest in Benton. County. Ark Farmers have a product to sell here very month in the year. \$200.00 to \$400.00 per acre can be made growing fruit and truck. The land is all hind and drv: and mosquitoes, no malaria, no nednoes: all aw abiding, sociable people. Climate is summers are moderate, with cool refresh-ing breezes during the day. and sum-mer nights are cool. It's a beautiful place. too: greatest ever for poultry: hens lav all winter. County has no debts. taxes are extremely low, no ditch taxes; finest rops here. This is a sure crop country. It's a great place and fine farm land can be bought near a good town, only two miles from the railroad station, for around st5.00 an acre. I want to put Michidan people right so if you are dissatisfied in Michigan write me personally and I will tell you honestly where to get the best have been through the mill and I know of splendid improved and unimproved places. I do wish that you could come here right now and see the fruit trees loaded down. It would open your eves. Talk about veg-etables, alfalfa, etc., etc. Well just drop me a line and I will tell you all ccan. then come and see for yourself. Address: J. J. SHIELDS, Benton Counts, Arkansas.

J. J. SHIELDS, Sulphur Springs, Arkansas.





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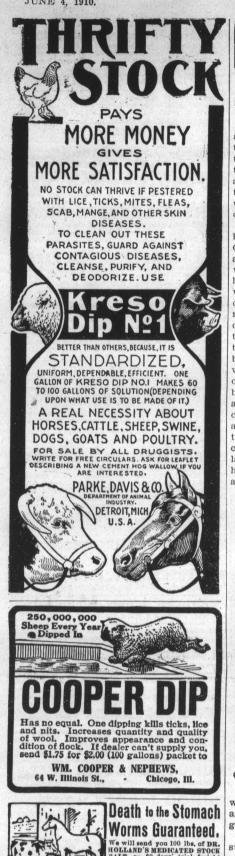
UY A FARM in the fertile Saginaw Valley of Mich. Pay for the quick raising sugar beets, Farmera are mak. S money here, We've a good list. Write today UNITED REALTY CO., Case Block, Saginaw, Mich.

LAND OPENING -233,295 acres of ceded Chip-pawa Indian Lands in MINNESOTA will be thrown open for Home-stead entry at 9:00 o'clock, A. M., JUNE 20th, 1910. For lists and further information address Minnesota Strick Board of Impleration Minnesota State Board of Immigration, Room 269, State Capitol, St, Paul, Minn,

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THE MICHIGAN FARMER.

LIVE GROWING THE HOG CROP.

> It Pays to Treat the Hog "Like a Gentleman."

third, in the language of the base ball seem to like it. An occasional dose of world. Hogs are first, sheep second and turpentine in the milk is given for intercows as stated above.

Gunnison, Colorado, and was greeted by parafine oil, a thin, clear, lubricating oil very profane language, said it was the standard remedy. The use of oil on hogs cows that drove him out of Ohio. Every kills lice, and loosens the scurf at the morning and every evening those seven same time, and is also a fly repellant. cows, and the adjectives did not stop at Before farrowing time my friend, the the seven, and still more cuss words on meat market man, the agent of the trusts the days of the week, those cows had to and the cause of high prices, is supplibe milked. A good Ohio man had gone cated to save several hundred pounds of wrong and from the state all on account lard waste, scrap or cracklings, whatever of the cows. Fake feeds, robber cows, it may be called locally. This is a pre-butter-fat tests, milk processes, good, bad ventative of cannibalism in sows. I supand indifferent bacteria, all are the con- pose, on the theory of medicine that like comitants of the dairy and are what my automobile friend calls, "The upkeep of the cause of a serious percentage of loss the cow." The hog from all these, in- in the swine business. Creeps are pro-cluding the visits of the inspector, is vided for the small pigs where they can largely immune. The hog is much like crack shelled corn and drink milk. human kind, if well fed and well treated a very decent sort of animal. If not so and pure water are among the essentials

of the hogs in the matter of feed and care. The Michigan Farmer would not print what they have said when some cow, treated like a lady, has not acted lady-like. When each day's low descending sun sees at our hand, some 100 pounds or more of added weight to a bunch of porkers at the present prices, it is a worthy deed well done. Several tons Several hundred head of hogs are fed of well weathered soft coal are used each and raised by the writer in the course of year and it is fed ad libitum. The real the year. It is a complete departure from merits of slack coal, lime, salt, sulphur the faith and it must be confessed that and iron sulphate are like the quack doc-the cows, which were once first in our tor's medicine in the fact that if it does affections, have now been relegated to no good it does no harm, and the hogs ows as stated above. nal parasites. For external cleansing, A populist member of the legislature while the hogs are at feed, they are anboarded the Rio Grande train one day at nointed with perhaps a half pint of pale former acquaintance from Ohio as to and quite as cheap as crude oil. For why he left that good old state. The animal wounds this oil, with a small legislator, in strictly unparliamentary and addition of any of the kresol dips, is a cures like. This form of race suicide is

Plenty to eat, clean and dry housing



One of a Bunch of 18 Steers Fed by Frank Price, of Barry County, which he Sold to the Shipper for 8c per Ib., the Lot Bringing a Total of \$1,940.

stone china, but just as good, are filled city folks in their automobile stopped and with separator skim-milk and breakfast displayed the bad manners of looking on food, to make the first course. This break- while the other folks were eating. fast food is a by-product secured from one of the Battle Creek cereal factories. is being put in clean troughs, the hogs hese baths field among obese hogs of sedentary habits, meats the acme of delight. and are modeled after the celebrated French Lick Springs. This hog watering place is much resorted to during the heated season. The hogs drink the cool water as it flows from the pipes, take a and just like human resorters. For their eve-

well used he has all the vices of carnivori of hog raising. Pigs are a cleanly animal and the herbivori, which, in Indian lan- when young, in fact, much more so than guage, is a verý "ornery beast." calves or lambs. So attractive is a large Sixty feet of cement troughs, not iron- bunch of little pigs at meal time that the

We Michigan people have something to learn in the way of curing pork, from One of the precepts of cow keeping is to the people of the south. Well cured, treat the cow like a lady. Hogs should be smoked meats are a delicacy, as com-treated like gentlemen in the matter of pared to pickled pork. The farm home their meals. While their breakfast food that has bacon and ham has at hand always the foundation of a meal that canremain outside, discussing the coming not be surpassed at any cafe or hotel in event. When the dining room doors of the world. I am not sure but one of the the hog hotel are opened, there is the causes that has driven boys from the appearance of rush that marks human farm has been the white, dyspeptic-prokind hastening to a dog fight. For lunch- ducing product from the pork barrel, and eon plain corn on the ear and tankage, a the gravy therefrom, which is supposed to sort of "chop suey" for hogs. This popu- be used on potatoes to save butter. The lar hog food contains much that hereto- substantial meal that comes from ham or fore went into canned meats and pemmi- bacon and eggs, needs perpetuation in can for Arctic explorers and corresponds poetry, like the remembrance of the "Old to cold meats on the table. Dinner, the Oaken Bucket." While the delicate slices final meal of the day, is largely the break- of boiled ham, served cold, are the choice fast and luncheon courses added. Mud of the epicure, they are possible on all baths are provided by piping water into farm tables. Fresh pork is an abominavery popular tion in hot weather and Shiawassee Co. JAS. N. MCBRIDE.

SHOEING DRAFT HORSES.

If one is not careful he can run up quite plunge and then come up to the hog hotel a shoeing bill on a farm team during the wait around for the evening meal year. Many farmers whom I know make a practice of keeping their draft teams ning meal a solid, substantial dish of shod all around throughout the entire cooked beans has been tried but truth year. When doing ordinary farm work, compels me to say that, while hogs will this seems like an unnecessary expense. eat beans they are not enthusiastic over While doing farm work the ordinary horse them. I like enthusiastic hogs, and do is usually as well, if not better, off when not propose to have the cow men outdo unshod than when he is shod. As long me in the matter of attention to a satis- as their feet keep in good condition withfactory ration, and have omitted the out shoeing we leave them in that condi-beans. Employes are loud in their praises tion. Of course, when their feet get worn

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Although there are hundreds of preparations advertised, there is only one that really stands out pre-eminent as a remedy for diseases of the kidneys, liver and bladder.

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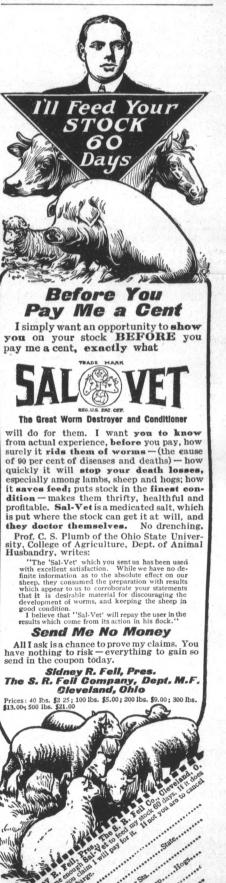
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(3) 579 down closely through road work we hie them to the shop, but otherwise we dont. In winter when it is icy and somewhat dangerous on the road we always aim to keep one team calked up well in front, even if not behind. What we need is less shoeing in summer, and more careful shoeing the rest of the time. Our draft horses are shod too carelessly by the average shoer. We must watch them more closely.

CLYDE A. WAUGH. Ohio. RUNNING PIGS ON CLOVER.

Even at present prices it is essentially to our interests to produce pork as cheaply as possible. Simply because hogs are selling at record prices we cannot allow the cost of production to creep up alongside the increased selling price. It should ever be the aim of the hogman to have the hogs and the methods which will enable him to produce a pound of pork with the smallest outlay consistent with good gains.

It has always been our opinion that the cheapest pork can be produced on clover pasture, when it is used in conjunction with some supplemental feed. Clover furnishes cheap protein, allows the hog to exist in what approaches his natural condition, keeps him fairly healthy, manures your field and saves a great deal of labor.

We have found that most of our profitable litters are those that are farrowed about the time the sows can be turned on pasture. It is an easy matter to take a roll of hog fencing, stick in a post every seven or eight rods, and to stretch up your fence. It can be done in half a day. Several litters of pigs can be run in a few acres.

After suckling a few weeks the sows can be reduced to a ration of a few ears of corn a day. Before this a few troughs can be placed so as to admit the pigs and keep out the sows, when the pigs can be given snorts and other feeds.

Handled in such a manner you have fair sized shoats when the new corn crop is ready to be fed. Then, a little green corn can be used to advantage. However, by the time the corn is ready, the shoats will stand quite a heavy feeding while on the clover. By so doing, the spring pigs can often be turned off after running behind steers on a very short feed which begins early in the fall. Two years ago we turned a bunch of shoats so raised, in a corn field with the older hogs. When the piece was hogged off part of the spring pigs went to market.

As a further proof of the profit in clover as a hog feed, I will mention our experience of last summer. When the clover pasture was ready we turned in 175 pigs, averaging 97 lbs. apiece. They had the run of 15 acres of clover and a small amount of wood pasture. Throughout the summer they received a gradually increasing amount of ear corn. When the new crop was fit, we fed green corn until the other was sufficiently matured when we hogged down 12 acres, charging up the clover pasture at \$15 per acre and all other feed at full market price, the transaction yielded us a net profit of \$981. CLYDE A, WAUGH. Ohio.

"INTERNATIONAL" NEWS ITEMS.

The International Live Stock Exposition Association directors held their spring, or classification meeting, May 19, 1910, in the rooms of the Saddle and Sirloin Club, Union Stock Yards, Chicago.

It was decided to hold the International Horse Show from November 22 to 26, while the International Live Stock Exposition is to cover the usual period, No-vember 26 to December 3, 1910.

It was found that practically all the live stock associations had increased their appropriations for special prizes to be offered in connection with this year's show.

To recognize our breeders, as well as our feeders, two additional beautiful silver trophies will be offered by the Exposition; one to the breeder of the grand champion carload of fat cattle, and another to the breeder of the grand champion carload of feeder cattle of the show.

A new rule was adopted requiring a three months' ownership of at least 12 of the cattle constituting each carload entered in the first carload classes, making it necesary to have the exhibitor make affidavit to this effect and to have this affidavit accompany the entry.

It was decided to follow the custom long established by our State Fair Associations, by uniting the Percherons and French Drafters in the same classification.



BIDWELL STOCK FARM. FOR SALE--10 Reg. Shorthorn Bulls. All good, reds and roams, from 12 to 24 months old, from the best of breeding at \$75 to \$125 each. Some of them Scotch and Scotch-topped, of the herd heading type. Also, young cows and heifers, all ages. Fifty head in herd. Farm-Two blocks from Lake Shore Station. L, I. BIDWELL, Tecumseh. Michigan, SHORTHORN cattle of both sexes at reasonable prices. I breed for both milk and beef. Come or write. T. M. SOUTHWORTH, R. No. 13. Box 73, Allen, Mich

SHEEP.

Oxford-Down Sheep and Polled Cattle for sale. A. D. & J. A. DEGARMO, Mulr, Mich OXFORD DOWNS A few good field rams for sale. H. J. De GARMO, R. No. 1. Clyde, Mich.

PARSONS OXFORD RAMS

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

LARGE ENGLISH BERKSHIRES. Have fine lot of spring pigs of both sexes. Few young sows for fall farrow. Vigorous and strong, the type for profitable pork production. Satisfac-tion guaranteed. F. A. BYWATER, Memphis, Mich

HUPP FARM BERKSHIRES! WON 189 PHIZES IN 1909. Stock of both sexes and all ages for sale. Breeders of Guernsey Cattle, M. B. Turkeys, Barred Rock Chlokens, Pekin Ducks. GEO. C. HUPP, Mgr., Drawer & Birmingham Michigan.

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

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

BERKSHIRES of the most fashion a ble type andstrains. C. S. BARTLETT, Pontiac, Mich.

NORTHERN GROWN BERKSHIRES. ROYCROFT FARML. Sidnaw, Mich.

A DAMS BROS. Litchfield, Mich., breeders of Im-proved Chester White and Tamworth swipe, Pigs, either breed, by its prize State Fair winners. Buff Rock, Buff Wyandotte eggs \$1 per 15; W. Orpington \$5 per 15.

Berkshire-A few choice fall Gfits bred for early far-rowing and a choice lot of Spring Pigiawith prices right and me right breed. A. A. Patiallo, Deckerrille, Mich.

Improved Chesters Sows bred for Aug. and Sept. farrow, either sex also W. Wyandotte Ergs 51 for 15. W. O. WILSON, Okemos, Mich. (Both Phones).

PURITAN HERD of CHESTER WHITES The peer of any in America. Spring pigs for sale WILL W. FISHER, Watervliet, Michigan. DUROC JERSEYS. CAREY U. Hastings, Mich. Nothing for sale at present.

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

DUROC JERSEY SWINE. Shepherd Dogs. B. for 15. J. H. BANGHART, Lansing, Mich. WALNUT HILL FARM Herd of Duroes. Bred sows all sold. 35 fine fall sows, 15 fine fall boars ready for service. 100 spring pigs to date. Write J. C. Barney, Coldwater, Mich.

0. I. C. bred sows all sold. Have a few hand. GEORGE P. ANDREWS, Dansville, Mich. O. I. C. REGISTERED PIGS, 10 to 12 weeks from World's Fair winners. Glenwood Stock Farm, Zeeland, Mich. Phone 94.

O. I. C. -Orders booked for spring pigs C. J. THOMPSON, Rockford, Mich.

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

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

HEAVY BONED POLAND CHINA PIGS at reasonable prices. Eggs from big, business Bar-red Bocks \$1 per 15, ROBERT NEVE, Pierson, Mich.

MICHIGAN'S GREATEST HERD of big Poland-China Hogs, Big Boned, Long Bodied, Big Litters. The farmers' hog. A bigsr, beiter a nd more prolifier Poland-China. Write for what you want. Bell phone, J. C. BUTLER, Portland, Mich.

POR SALE-4 P. C. boars ready for service. Eggs L' for hatching & prize winning Regal White & Col-umblan Wyandottes, Zach Kinne, Three Oaks, Mich.

POLAND-CHINAS-Fine lot spring to ship. WOOD & SONS, Saline, Mich.

P. C. PIGS Singly or in pairs not akin. R. W. MILLS, Saline, Michigan.

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

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

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also registered Hornless Delaines grade X \$15; XX \$20; XXX \$25. Romeyn C. Parsons, Grand Ledge Mich. Michigan's largest breeder of good sheep

SHROPSHIRE HALL STOCK FARM

130 Reg. Rambolliet Ewes for sale, descended from the best flocks and bred to a pure Van Homeyer and a ram stred by a Gilbert ram and im-ported dam. All in perfect health. In lots to suit buy-ers-none reserved. J. Q. A. Cook, Morrice, Mich.

HOGS.

ENFORCEMENT OF THE TWENTY-EIGHT-HOUR LAW.

Department of Agriculture to Bring Test Cases.

A controversy has arisen between some of the railroads of the country and the larger live stock shippers in regard to the space in the cars which must be afforded animals in transit from one state to another in order to make unloading unnecessary and still comply with the twenty-eight-hour law. This law provides that when the animals are carried in cars "in which they can and do have proper food, water, space, and opportunity to rest," they shall not be required to be unloaded. The Department of Agriculture has been appealed to by both railroads and shippers, and today the position of the department is tentatively announced as follows:

If cars are not loaded beyond the minimum weight fixed by the tariffs, the department will not, for the present, raise the question as to whether sufficient space is provided for the animals to rest; but railroads which load beyond the minimum and do not unload for rest will have to take their chances of prosecution in the courts.

It is the intention of the department to institute a number of test cases and secure rulings from the federal courts as to what space must be afforded. It is claimed by the department that this 's the only course open, since no power is given the secretary of agriculture by the law to make rulings and regulations re-

garding space to be afforded in cars. In all cases where live stock is not unloaded en route "into properly equipped pens for rest, water, and feeding." the care must be provided with facilities for feeding and watering in transit, and live stock must, when so fed and watered, receive proper feed and water.

LIVE STOCK NOTES.

F. W. Woods, of Nebraska, a promi-nent stock feeder and ranchman, fed the past winter season, 1,400 cattle and 1,200

F. W. Woods, of Nebraska, a promi-nent stock feeder and ranchman, fed the past whiter season, 1,400 cattle and 1,200 basis of the first day of last December, nearly \$2,000 worth of hogs, and he has 40 head of brood sows left, from which he hopes to realize good returns during the present year. He is one of the most suc-cessful stock raisers and shippers in that region, having been in the business long enough to know how and what to feed, as well as when to ship in order to strike the best market. Mr. Tierney went to Chicago recently with three car loads of choice cattle of his own raising. Reports from Kansas state that hog choice as so not he decrease, as shown by advices received by the state live stock sanitary department. While the weather may have something to do with it, it is firmly believed by the inspectors that hog choice a serum is the principal cause of the decrease. "The agricultural college is now able to more than supply the demand for serum," says Live Stock Commissioner Mercer. "This shows that the disease is abating. The farmers of Kansas should not sustain any heavy losses in the future from hog cholera, for it has been demon-strated that the disease can be mastered by the serum process." During the third annual spring meeting of the Indiana Cattle Feeders' Associa-tion at Purdue University, Lafayette, indiana, recently, about two hundred cat-tile feeders, representing practically every county in Indiana, and also representa-tives from Pennsylvania, Ohio, Illinois, Missouri and Kansas, were present. H. P. Rusk, of the Experiment Station, point-ed out that while the Indiana farmers were anxious to keep feeding cattle to maintain the fertility of the farms, there paties and kansas, were present. H. P. Rusk, of the Experiment Station, point-ed out that while the Indiana farmers wing soul y three to five cows, who ormerly had a few yearling stockers for abeen cattle for her own feed lots. Farm-res owning only three to five cows, who ormerly had a few yearling stockers for ale every sprin

farmers will be compelled to produce their own feeders. Sanuel Miller, of Iowa, who lives in one of the largest cattle feeding and hog rais-ing sections of that state, says there will not be more than half the usual number of cattle fed this summer thereabouts. He claims that the supply of cattle pas-tured will be but half as large as a year ago, and says it looks like a shorter sup-ply of corn-fed cattle for the late summer months than ever before. Many of the regulars announce their intention of stay-ing out of feeding cattle this summer, lacking the nerve to pay fat cattle prices for thin stock to finish. Mr. Miller says the pig crop will be light, not because of any worse luck than usual, with the youngsters, but because fewer old sows and a larger percentage of gilts were bitters. Not many old sows were left to breed, most of them having been sold two years ago. Farmers are extending their corn acreage, scarcity of cattle to graze being a factor and the fact that old clover meadows were mostly frozen out and plowed up another.

THE MICHIGAN FARMER.

Some Interesting Facts About Overlands

Our 800 dealers now are selling over \$200,000 worth of Overlands daily. That's a far larger sale than was ever attained by any other car in the world.

Some of the Users

The Government is one of the Overland users. For a year and a half some of these cars have been used in carrying the mails. For 500 days they have made their regular trips, winter and summer, without a moment's delay. Each of these cars has done the work of three horse-drawn vehicles.

The J. I. Case Threshing Machine Company some time ago supplied 25 Overland cars to their country salesmen. They report that one man with one of these cars can do two salesmen's work.

The Altman & Taylor Machine Co. have also begun to supply Overlands to their salesmen.

We have recently built delivery car bodies on 900 Overlands for the use of storekeepers who want them for use as light delivery cars.

All Due to Simplicity

All these new uses for Overlands are due to their utter simplicity. A novice can run one as well as an expert.

The operation of the car is by pedal control. One goes forward or backward, fast or slow, by simply pushing pedals. The hands have nothing to do but steer.

Overlands are almost trouble-proof. The usual complexities have been avoided. One of these cars has been run 7,000 miles, night and day, without stopping the engine.

A child can master the car in ten minutes. Any member of the family can run it. And a car that is relied on to carry the mails is the car which will always keep going.

581

(5)

\$3,000,000 Plants

Over \$3,000,000 has been invested to produce Overland cars in a perfect and economical way. The cars are made—as watches are made—by modern automatic machinery. Thus we get exactness to one thousandth part of an inch. And thus every part is made exactly like every other similiar part. All parts are interchangeable.

Because of this machinery and our enormous production we are able to make cars for less than anvone else.

This year we are selling a 25-horsepower car, with 102-inch wheel base, for \$1,000. We are sell-ing a 40-horsepower Overland, with 112-inch wheel base, for \$1,250. And these prices include all lamps and magneto.

During the past year alone we have cut the cost of Overlands 20 per cent by multiplied production and this labor-saving machinery.

10,000 Tests

The various parts of each Overland car are subjected to 10,000 rigid inspections. Then every car, before it goes out, is given a long trial run on rough roads. One of our test roads includes the worst hill in Ohio.

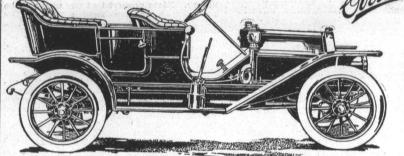
Thus we know that each Overland is a perfect car before it leaves the shop. There are no mistakes.

Those are part of the reasons why Overlands have now come to outsell all other cars that are made. You will want the car which others want when

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guerland you learn the facts. If you will send us this coupon we will mail you our catalog. We will also tell you the nearest place where you can see the cars.

H4



The 25-horsepower Overland costs from \$1,000 to \$1,100, according to style of body. The wheel base is 102 inches. The 40-horsepower Overland costs from \$1,250 to \$1,500. All prices include five lamps and magneto.



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DETROIT, JUNE 4, 1910.

25 CENTS TO NEW SUBSCRIBERS.

We will send the Michigan Farmer to new subscribers to November 1, 1910, in- by cluding one of our farmers' pocket account article than in buying a similar article in books of 72 pages, all properly ruled un- which this expense had not been added der headings, such as daily egg record, hired help, individual account, cash paid out, cash received, etc., also instructions how to keep accounts, also other general information, and 1910 calendar. Account book sent postage paid for only 25 cents, or the Michigan Farmer to November 1, upon which the alleged argument of pur-1911, and a two-bladed, razor steel, brasslined knife, worth 75 cents, postage paid, send direct to this office.

CURRENT COMMENT.

statement was made that the manufac-ing anything fom its quality. In fact, ing anything for the any manufacturer, must be based primarily upon the quality of the article manufactured. No manufacturer would think of extensively advertising an accetainty, and while the Boston market showed a considerable activity after the London market had exhibited a firm tone since no matter how well advertised in Die of the most successful flights ever London market had exhibited a firm tone since no matter how well advertised in with some advances on the better grades, order to be permanently and profitably yet this activity seemed to be but tempo- popular, any article must possess quality yet this activity seemed to be but temporary and buyers have shown no inclination to follow it up by general buying for future use. The only real progress toward that the claims made for any standard a final solution of the problem which resulted from this temporary activity was backed up, both by the manufacturer and to further reduce stocks in hand. This the distributor of that article. In fact, has been accomplished to a degree which the thorough advertising of any article is promises to hasten the fixing of a more one of the very best guarantees of qualdefinite market, since stocks are now so ity which it could have and, other things low that they would soon disappear under being equal, the well advertised articles an active market, and while they might should always be given the preference be made to cover limited movements for by the prospective purchaser for this very some time, yet holders generally feel that reason if for no other. For many years the market has seen its low point and as the Michigan Farmer has ever stood back conditions in the country do not indicate of the advertisements which appear in its that growers are willing to accept the columns and the instances are rare infigures offered them for this year's clip, deed, when any complaint has been reowners of old wool are no more free to ceived with regard to the quality of any let it go at prices for which they are not manufactured article advertised in its colat all sure they will be able to replace it. umns. We do not believe that the er-In the meantime the worsted manufacturers who consume the raw material held by many readers of this paper, but most rapidly are waiting developments to deem it proper to bring out the facts in see if there will be a demand for heavy this comment, lest there should be an

goods result from the line of samples occasional reader who had not gone deep the stalls to gardeners and fruit growers for the season was done on Saturday last. Because of some locations being more desirable than others, the plan of selling the same conclusion through the natural proches are season's product of cloth. The report of a suction in trade circles on this point, it being argued that this class of goods look beter and wear better than other woolens, and that the fact that the trade in this ine was disappointing the past season will tend to bring about a reaction and ncrease the demand for them next year. In the meantime the wool market is best described as a "waiting" market. Just what the outcome will be does not now seem apparent, but it is certain that growers have not weakened in their attitude to any considerable extent. Reports from the west are to the effect that large growers are consigning their wool on a liberal advance and preparing to wait before ordering it sold until users are willing to pay a better price or until it is demonstrated to them that there is good reason for the reduction of prices upon which the

dealers insist. Experience and common sense both teach us that there is no use in trying to force a waiting market for any commodity. It is a poor time to sell when nobody wants to buy. But with out domestic market at a point which expert observers believe to be low; with the foreign market strong; with cotton soaring, and with a season's trade close at hand, it seems clearly the part of wisdom for growers to keep right on waiting for conditions to so change as to be more to their liking before selling their good fleeces, as there would seem to be nothing to lose by such a course, and a very good prospect that they will be gainers thereby. In a recent

Advertising vs. Quality. conversation between a special-

ist in advertising and a merchant, which occurred in the editor's presence, the question of the attitude of the purchaser toward a certain trade marked brand of goods, which is extensively advertised, was mentioned. The merchant stated that in his experience he had found that an extensive advertising campaign some-times worked both ways by prejudicing the purchaser against the goods, as in the case mentioned, since the purchaser reasoned that an extensive advertising campaign is costly and that this cost must be either added to the price of the goods or taken from the quality, so that he was likely to get less for his money by purchasing a thoroughly advertised article than in buying a similar article in the cost of production. which this expense had not been added to the cost of production. which this expense had not been added toward a certain trade marked brand of

article than in buying a similar article in which this expense had not been added to the cost of production.
Whether this sentiment exists to any appreciable degree among the readers of the Michigan Farmer we are not advised, the article in question not being advertised in our columns. But the principle upon which the alleged argument of purchasers in this case was based is of sufficient importance to merit comment at this time. The purchaser who advances such an argument fails to appreciate the fact that the largely increased product which can be disposed of through advertising will reduce the cost of production and distribution so materially as to make the advertising profitable without adding anything to the cost of the article or tak- ing anything from its quality. In fact, an extensive advertising campaign, to be
city, including a Lutheran church, was burned.
city, including a Lutheran church, was burned.
city, including a Lutheran church, was burned.
city interdised the mediation of the United States or production is promised.
an extensive advertising campaign, to be for only \$1.00. Order through agents or this time. The purchaser who advances In reviewing the and distribution so materially as to make A "Waiting" Market. wool market in a the advertising profitable without adding previous issue the anything to the cost of the article or takto back up the claims made for it. And it will always be found upon investigation article which is extensively advertised are roneous sentiment mentioned above is

THE MICHIGAN FARMER.

to New York by avia-tor Curtiss, in which he traveled at an average rate of over 50 miles an hour and pulled down a new world's record for the "heavier-than-air" type of flying machine is received calmly as simply another demonstration of the fact that the realm of the air is gradually but surely being conquered by man. Now it is proposed to hang up a valuable prize for a successful flight from Chicago to New York with a limited number of stops, a feat which is

Themselves. Complaint is being made of a tanning concern of Newaygo county that is dump-ing refuse in Fremont lake, thereby kill-ing fish and so poluting the water as to make it unsanitary and distasteful to ani-mals who refuse to drink It. The program of the western Michigan development bureau has not been waged in vain, for the record of the past season shows that there has been more newcom-ers to that part of the state than for any previous five years. And those coming show an inclination to stay and become a part of the citizenship of the state.

CROP AND MARKET NOTES.

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endent basis. He leaves a wife and two children. A study is being made of a peculiar dis-ease affecting horses near Plymouth, Mich., the disease is a fever, and so far as known has never before been found in this state. The department of agricul-ture, as well as local veterinarians, are studying the disease with the hopes of learning its causes and a proper treat-ment for its control or extermination. An official statement comes from the company of Bayport, Mich., for the mis-tanding of several hundred packages of fish. Suit was brought by the govern-ment against the company. The city markets of Grand Rapids have been pointed out as a model for other 30 or 60 days it will be different.



FLOWER GARDEN-BY MISS Z. I. DAVIS. ONLY A

F only you could persuade her to come asters, petunias, mignonette and sweet that she will not live until autumn in the city. She appears to be growing weaker every day. But she dislikes the country so. Her mother says that she Mr. Field exclaimed, "I want a part in would rather die in the city than live this, too." So he ordered a lawn fence outside of it."

bring her with you. Then she can see how she likes it," said the farmer's wife "Most all of our visitors admire briskly. Evergreen Farm," she concluded in a tone of pardonable pride.

Miss Lee placed her fruit and vegetables in the rear of the carriage and, with a good-bye nod to Mrs. Field and daughter, drove away.

"Imagine the proud Lillian Summers coming here to give us more than a toss of her vain little 'head," ex-

claimed Tillie to her mother. "Many a time I've heard her laugh at the country people and jest over the dullness of life in the suburbs."

"Girls sometimes say things to hear themselves talk," re-plied her mother. "I always thought her a pretty girl, and if she is not as wise and sensible as my little daughter," and Mrs. Field lavished a motherly smile upon her, "may be it is because she hasn't had the opportunity." "Shall we give her the oppor-

tunity, mother dear?" "How?" asked Mrs. Field with

new interest.

"Let us, if possible, persuade her to stay the summer with us. Perhaps we can if we make the place look more attractive. Let us arrange the lawn tastily, and beautify it with flowers and shrubs. Of course, 'motherdy,' " which was her pet name for her mother, "you have made a good beginning. There are roses, lilies of the valley, and hydrangeas. But we want a pansy bed, a mound of geraniums and phlox, and we have some peonies in the garden."

'Your head is full of plans," exclaimed her mother. "No wonder, for you had landscape gardening in college. You had practical work there, too, didn't you?'

"We were expected to work an hour out of doors every day," replied the daughter.

"Was that the way you got acquainted with Mr. Morton? "Yes," was the blushing assent. Then she continued. "Let me give you a demonstration of what I learned."

That night, at supper. Mr. Field was surprised with a series of questions given him in rapid succession by his spirited young daughter. To her request for the use of the front yard, he laughingly answered, "Do what like with it as long do nothing worse than make mud pies."

the mounds. Tillie counted her savings and found that enough remained to purchase a dozen pansy plants, six geraniums, three scarlet and three white, with some silver left for asters and nasturtiums.

The next day, bright and early, she and to make the purchases for the new flower garden. The proprietor was an energetic but neat beds of plants and bloom. young lady, who, like her patrons, was starting out in a new business. So she and carriage came up the evergreenadded some extra plants to each variety fringed road and stopped at the Field ordered. After Mrs. Field and Tillie ar- home. Two young women alighted and rived home, they discovered a quantity of came leisurely up the path.

and spend the summer here! I fear alyssum tucked away in the box, all ready to transplant. After the geraniums were set out the

yard looked so bright and pretty that of a neat but plain pattern, with gates to "Next time you come for vegetables, match. Soon the yard began to wear such a different aspect that the neighbors declared it did not look like the same place. A lawn mower was purchased, a pair of shears for trimming, and a few other tools.

> "It costs so much," objected Mrs. Field, "and Tillie needs a new spring suit." "I feel," replied the young gardener, enthusiastically, "as if we were not going to lose anything by this."

At that moment the rural carrier halt

Field and ushered into the cool, inviting sake." parlor. After the introduction, Tillie found herself talking with a young lady who would have been beautiful had she was as white as paper and her blue gray eyes looked at Tillie with an expression that could never be forgotten.

claimed the new guest enthusiastically. "I feel right at home," she added in a "I am going to well modulated voice. rest in that hammock out there under the delightful rose tree until lunch is ready," she concluded. Suiting the action to the change your mind?' word, she was soon enjoying the soft summer breeze that fanned her and lulled her to sleep.

She was awakened by a gentle caress

They were met at the door by Mrs. shall need a guardian for my stomach's

"If you want an indulgent one, choose me," said Mr. Field. "Will you let me stay all summer?"

not been so pale and slender. Her skin and the girl who had always "hated farm life," lifted her eyes to those of her host with a child-like earnestness.

An expression of pleasure went around "How perfectly lovely it is here," ex- the table. Mrs. Field and Tillie both exclaimed at once, "That is good. It is just what we have been planning and hoping for."

"But," interjected Miss Lee in a skeptical tone, "What has induced you to

"O, it is the beautiful garden; the tall, whispering trees and the quiet, home-like atmosphere."

In a few days Lillian's trunk and baggage arrived. As Mrs. Field took her to her apartment, she exclaimed, "Oh, what a love of a room. And it opens right out on the porch where I can see the roses climb and blossom. I can hear the birds sing and watch them nesting." "How much did she offer you

a week, mamma?" asked practical Tillie.

"She flatly refused to pay less than five dollars."

"Splendid," replied the girl. "That means needed furniture, new garments and many other nice things to make home more comfortable, and all through the flower garden. Let us send for some more roses and fruit trees," she added enthusiastishe added enthusiastically

"Tiletha," smiled her mother, "you are becoming ambitious. If we continue, we shall have a paradise on earth."

At first, the physician came to prescribe for Miss Summers every day. But as her cheeks began to grow rosy, and health was returning, the doctor came only on every Wednesday. In a short time she did not need medicine.

One morning Lillian came up the walk reading a letter that had just arrived in the mail.

"It is pleasant news, I know," smiled Mrs. Field. "Your cheeks are as red as the rose in your hair, girlie."

"Let me tell you something," was the smiling reply. "Call Tillie; I want her, too."

As the three ladies sat down in the vine-trellised summer house, Lillian began: "Doctor says that I do not need a physician now, but he declares that he needs me. This will bring my happy vacation to a close. I must pack up this afternoon." After a moment's pause, she added, "Ray Morton is to be present at our wedding. Tillie, may we not have a double wed-

The girl opened her large dark eyes in astonishment. "How did

"O, I guessed," was the laughing reply. A vision of the Summers' beautiful home, its wide banqueting halls, the orposal, seemed almost too good to be true. "Is it the home-grown food or the as Tillie slowly gave assent to the plan. ble here that makes everything taste Just as the sun was sinking in the west on a September afternoon, the wedding guests in the Summers' home listened to the solemn words that united Dr. Joice and Lillian Summers, also Ray Morton and Tiletha Field in holy matrimony. Every guest present said that it was a beautiful occasion, and an event of a

Farm Flower Garden with its Wealth of Leaf and Bloom.

The hired man was set to work digging ed on his rounds long enough to leave a and a call to dinner. After all were seat- you know of our engagement?" she asked. claimed, "She's coming, mamma. Miss hush, and Mr. Field asked the blessing. Summers is coming tomorrow. Miss Lee wants some fresh berries and Lillian has promised to accompany her. How glad I am that the house is all in order. There The next day, bright and early, she and is little left to do to the lawn, now, except her mother drove over to the greenhouse to watch things grow," and the critical eye of the gardener ran over the plain At 11 o'clock the next day a white pony

letter. Scanning the contents, Tillie ex- ed at the table, there was a moment's "How appetizing everything looks." said Miss Summers as she confessed to chestra, and decorations all at her disthe possession of a very unlady-like appetite. people here that makes everything taste so good?" she asked.

"If you continue to increase your appetite," laughed Miss Lee, "you will eat these kind friends out of house and home."

well-timed hint," was Lillian's laughing rejoinder, "but if they continue to have such tempting spreads I fear I lifetime.

584 (8) THE MICHIGAN FARMER. ROMANTIC LIFE of HERBERT FURLONG.

Thrilling Experiences of a Soldier of Fortune, Ranchman and Federal Detective.

BY J. W. GRAND.

We had on one occasion to fasten a lightning conductor, which had sprung with him. near the top of a very high chimney, and There w the superintendent chose myself and one Orkney Smith to do it, as the most daring of his men. I had always a very cool head, and could stand on elevations that made most men dizzy. About half a dozen of us went that morning, with a hand cart containing the necessary ropes and blocks, the kite, and a box or cradle. Having flown the kite and dropped its line across the top of the chimney, we soon drew up a rope at the end of which was a block through which ran the line whereby we were to be drawn up. Orkney had only been married a fortnight, and as we stepped into the cradle the men banteringly asked him if he hadn't a last dying speech to leave for his wife; and then, Mr. Staming having shaken hands with us and bid us be cool and steady, we were drawn slowly up. It was known all over the town that the conductor was to be fixed, though as the day was not named I did not expect we should have many spectators. But as we got higher, and the view opened under our feet, I saw that the streets were already thronged with starers. Orkney was very quiet, and when I waved my cap to the people he said, snappishly, that this was no time for such folly, and that he thought I might think of better things than how to amuse those gaping fools, who, he dared say, desired no better fun than to see us meet with an accident.

I had come up in the best heart, thinking, indeed, nothing about the danger we incurred, but as we drew nearer and nearer to the top and had nothing, as it seemed, belonging to this world near to us but this straining rope, I began to see the peril of the undertaking. What Ork-ney thought of it I don't know. He sat at the bottom of the cradle, never looking out, though I told him he would do better to keep his eyes about him so that he might grow used to the height.

Good Heavens! what was this? Here we were within a few yards of the top projecting coping, and still they were winding away without slacking speed in the least. I guessed in a moment that they mistook our height, and with the great purchase of that windlass the rope would be broken when the cradle came to to block. I sprang up and, catching the rope, climbed hand over hand to the cop-Orkney, too, sprang up and foling. lowed me. He, too, got safe; and still they went on winding up till the rope sung again with the strain there was upon it. Then it snapped, and cradle, hauling-line and the main rope, with its block, fell down. Thus we two were left in the most desperate situation. Poor Orkney was completely dazed with fright. The moment he got on the coping, which was only a foot and a half broad, he called out, "Where can I pray?" And so I said very solemnly, "Sit down, Orkney: God will hear us if we pray to him sitting down."

The color of his face was a transparent blue, and it was distorted and twitching as if he were in a fit. His eyes were very wild and drawn into a squint, and he couldn't sit steady but swayed his body back and forward so that I felt certain he must topple over.

"Come, Orkney, lad," I said, thinking to take the fright off him; "it's bad enough, but it can be mended. Hitch up a bit, and put your arm round the rod, down, he wrestling and fighting with me maybe it will steady you.

"Where are you? and where is this rod?" he asked in a very hollow voice, though he was looking straight at me, and the rod was only a foot or two to By this I knew that he was his left. gone blind with the fright, and self-preservation said, don't go near him. But then I remembered his newly-wedded wife, and that, taking him all through, he was always a very decent fellow; and I thought how I should have liked him to have done if I had been in his case; so I determined to run a bit of risk in his favor. Of course, I dared not get on my feet; but, working myself on by my hands, I got to him. Putting my arm round his

About a month after the encounter with waist, and telling him as cheerily as I the rattlesnake, finding that farming was could to keep cool, I got him with his arm not in my line, I called an auction sale around the rod. It had, however, sprung and sold or gave everything away. I then the stapling for five yards down, and was returned to England and the old mill in so loose that it swayed with him, and I Lancashire, where I became an overseer. expected every minute to see him falling head over heels and the rod tearing away

> There was great bustle down below. People were rushing around the yard and People were rushing around the yard and pushing to get in, but as yet there were but a score of men at the foot of the While Jim, who for the M. F. worked, chimney, and, by close looking, I saw Stored money in the bank. pushing to get in, but as yet there were chimney, and, by close looking, I saw them put somebody on a board and carry him gently away toward the engine-One of the men walked after house. with a hat in his hand; then I knew that somebody had been hurt by the falling cradle, and that it must be poor Mr. To all you restless mortals, who Staming, as none of our men wore hats. Not a face was turned up to us. I learned 'Just for The Farmer go to work, 'Twill pay you better yet. afterward that our men were so taken up with sorrow that so good a man and so kind a master should be killed, that for a while they had never a thought about us, and the people outside imagined that we had come down with the cradle. Thus were we left in total isolation for fully twenty minutes.

While I was watching them below, feeling very sorry for my poor paster, I was startled by a wild laugh from Orkney, who began making cat-calls and yelling as if were possessed. Then I knew, of he course, that he had gone mad.

Even now I tremble when I think of that time. It was horrible to peer down the shaft, black and sooty and yawning, and scarcely less so to look outside and see a flight of pigeons sweeping around at considerable less height than we were. Then Orkney-thank God, he was so dazed that he could not see me-called my name three times as I sat fairly cringing in dread that his sight might With a ghastly grin, and chewing clear. with his mouth, he began working him-self toward me. I worked away from him noiselessly as I could, with every hair as of my head standing on end. He followed me twice around that horrid coping, mak-ing most hideous noises, and then, having come a second time to the rod, he got an idea in his muddled head that I had fallen over, for he never lost a sense of where he was all through this trying time. Then he tried to get upon his feet. At the risk of my own life I could not let the poor fellow rush on to sudden death without one more effort, and I cried out for him sit down. He cowered down like a to whipped dog, all trembling. I suppose that it had been put into his head that I was a dead man speaking to him. That morning my wife had received a letter from her sister in Canada, and as there were parts we could not make out I had put it in my pocket, intending to decipher it at my leisure.

it at my leisure. It had a scrap of uncovered paper at the bottom, and by another good provi-dence I happened to have a bit of red-lead pencil in my pocket. I wrote on the paper, "Get us down—Orkney's gone mad." This I shut in my tobacco box and was fortunate enough to drop just at is mad." Something used for lighting, and a pro-noun. 2. I am part wild animal, and part of me means "to gain." You will find me in people's houses. 3. I am a city. Part of me, nearly all plants do, part of me is a weight, and 4. I am a bird composed of a suffix, a mighty man, and an animal that swims much. and was fortunate enough to drop just at much. the feet of a couple of men who were standing by the engine-house door.

Directly all was bustle to rescue us They got the kite again and I watched it slowly mounting-slowly; and when the slack twine fell between Orkney and mysalack twine fell between Orkney and my-self I took it in my hand and could have kissed it. Poor Orkney, with his teeth i did all I could to favor this idea until they got another cradle up to us. Then, having gotten him in, I scrambled in my-self and, clutching him fast, I shouted for them to lower. And so we were taken down, he wrestling and fighting with me all the way. He was in a mad-house for some

He was in a mad-house for some months, and then went to scavengering, for he never could face any height again. (In our next Magazine Section the author of this interesting series will give Mr. Furlong's story of an incident which occurred during his service as a mill man-ager in Russia.—Ed.)

THE FOUNT OF WORTH.

BY EUGENE C. DOLSON.

'Tis the heart's wealth that all life's good supplies; re bides in none true worth from There this apart: Is the mind great? Its source of great-ness lies In the deep impulse of a human heart. JIM AND JOE. BY J. M. W.

When first the Klondike craze broke out, It reached a town I know, Where, peacefully together dwelt Two brothers—Jim and Joe.

Quoth Joe to Jim, "Let's pack our grips And try this far-famed land; For now in town there waits a train To take a Klondike band."

Jim mused a bit, then firmly said, "No, Joe, we'd better stay; The Michigan Farmer offers work And always gives good pay."

So Joe he started—sad and lone— For Klondike regions cold, And worked by night as well as day In search of Klondike gold.

MORAL

You need not search Alaskan fields, There's gold to win right here; The thousands who this paper read Will want it every year. The

A roaming fever get, Just for The Farmer go to work, 'Twill pay you better yet.

(This clever effort was no doubt in-spired by the very liberal terms which this paper is making to its subscription representatives, further particulars con-cerning which will be gladly furnished by its publishers).

"Dad, I was simply great in relay events," boasted the boy from college. "Good enough, son. We'll make use of them talents. Your ma will soon be ready to relay the carpets."

"As soon as some men gits a little saved foh a rainy day." said Uncle Eben, "dey can't resist de temptation to knock off work an' watch foh a shower."— Washington Star.

"Did you try counting sheep for your insomnia?" "Yes, doc, but I made a mess of it. I counted ten thousand sheep, put 'em on cars and shipped 'em to market. The wad that I received in return made me so nervous that I had to stay awake and watch it.—Ex.

KINKS.

Kink I.-Hidden Michigan Counties. Kink I.—Hidden Michigan Counties. What county is part of a tree? What county was a great explorer? What county was Queen of Spain? What county follows a trade? What county is a metal? What county is a Greek letter? What three counties were presidents of the United States? What county bids us keep on eating? What county is a bay? What county was U. S. Senator from Michigan?

Michigan?

What county is a lake? What two counties are religious? In what county could a girl be a boy vice?

What two counties are girls? In what county is man a beverage? What county was an early Michigan explorer?

Kink II.-Hidden Transpositions.

1. I am an island composed of a kind of conveyance, a word meaning "angry," something used for lighting, and a pro-

Kink III.-Five-Letter Square.

A garment. A musical instrument. A bird. Old form of singly. A chemical term.

Prizes for Straightening Kinks .- To the

Answers to May 7 Kinks.

Kink 1.—Half Duplicates.—1, Barn-door; 2, Door-lock; 3, Lock-spring; 4; Spring-house: 5, House-hold; 6, Hold-hack; 7, Back-log; 8, Log-chain; 9, Chain-pump; 10, Pump-stock; 11, Stock-food; 12, Food-box; 13, Box-wood; 14, Wood-worm; 15, Worm-fence; 16, Fence-post; 17, Post-box. box. Kink

box. Kink II.—Fourteen Queer Cows.—1, Coward; 2, cowlick; 3, Moseow; 4, cower; 5, Cowper; 6, cowboy; 7, cow-paths; 8, cowl; 9, cowhide; 10, scow; 11, cowcatch-er; 12, scowl; 13, cowkick; 14, Cowpens. May 7 Prize Winners.

Only two sets of correct solutions were received and awards are accordingly made to Mrs. W. C. Massey and Mrs. James Parkinson.

Facts for Weak Women Nine-tenths of all the sickness of women is due to some derangement or disease of the organs distinctly feminine. Such sick-ness can be cured—is cured every day by Dr. Pierce's **FavoritePrescription** It Makes Weak Women Strong, Sick Women Well.

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We shall not particularize here as to the symptoms of those peculiar affec-tions incident to women, but those want-ing full information as to their symptoms and means of positive cure are referred to the People's Common Sense Medicat 'Adviser-1008 pages, newly revised and up-to-date Edition, sent free on receipt of 21 one-cent stamps to cover cost of mailing only; or, in cloth binding for 31 stamps. stamps. Address Dr. R. V. Pierce, Buffalo, N. Y.



I was helpless and bed-ridden for years from a double rupture. No truss could hold. Doctors said I would die if not operated on. I fooled them all and cured myself by a simple discovery. I will send the cure free by mail if you write for it. Capt. W. A. Collings, Box 555, Watertown, N. Y.

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MANY IN ONE. BY MILDRED, M. NORTH.

Grandpa calls him "Johnny," Papa calls him "Bob," Mamma, "Busy-body" When he's hunting for a job.

"Skeezicks," says his auntie, And he's "Grandma's boy;" Sometimes "Little Nuisance" Is the title we employ.

Climbing into trouble, He's a "Rascal" bold; Busy fingers reaching, He's "Mischief," he is told.

Brown eyes bright and shining, Busy at his play,



He is "Baby Bright-eyes," Happy all the day.

Ready robed for Dreamland, With the shades of night, He's our "Darling baby" Sleepy eyes shut tight.

In the early morning, Waking sweet and bright, He is "Mamma's sweetheart," While soft arms hold me tight.

Then while wet sweet kisses Cover all my face He is "Mamma's lover" In a close embrace.

Ready for a frolic "Daddy's little man," Face all smiles and dimples, Beat him if you can.

HOW THE WOODPECKER PAYS HIS WAY.

BY EUGENE F. CRANZ.

at some woodpeckers, when a passing lar habit of the bird, or whether it did man remonstrated with them, whereupon one of the boys replied, "Them ain't birds, them's woodpeckers."

A better day has dawned for the woodpeckers, and they are now justly entitled wheat field now and then. to be classed as birds, for, taken as a whole family, they are among the best friends of the farmer. I have a special reason for admiring the "flicker" or yellow-hammer. Next to the quail, I doubt if there is really a more useful and friendly bird to the farmer. The reason? Well, many years ago, in company with several other boys I came upon a flicker's nest in an old stub. The young were of appears to be far more beneficial than the age to begin at once their monoton- harmful. An examination of the stomachs ous noise that has been likened to the of nearly a thousand Redwings by the singing of a telegraph pole. One of the Biological Survey of the Department of boys suggested that one of us climb the stub and throw the young birds out, as year, shows that almost three-quarters flickers were woodpeckers and all wood- of the bird's food is made up of weed peckers were bad birds! To our ever- seeds, or of insects injurious to agricullasting shame the suggestion was carried ture, indicating unmistakably that the out.

full of breakfast and dinner. One of seed, such as ragweed, barn grass, smartmy memory to this day. Actually a handaround that dead nestling! Mixed with the cutworms there were numerous big ants

How industrious must a pair of flickers

THE MICHIGAN FARMER.

List price \$8.00.

be to provide food enough for six or eight such hungry nestlings? It will be putting it low enough to say 500 worms and insects a day for two or three weeks, and all taken from the fields near-by. Later in summer and autumn they feed largely upon grasshoppers.

The nest is made by chiseling a cavity in some old apple tree or stub. The eggs are pure white, and from five to nine in number, but usually six or seven. Next to the flicker in usefulness is the downy woodpecker and his bigger cousin, the hairy woodpecker. These two species are marked alike and look much alike except that "hairy" is nearly twice the size of little "downy." The feeding habits are very much the same. The larger species is perhaps less common, and much more wary. At times little downy comes almost within arm's length. He is often found in company with chickadees and nuthatches, whose feeding habits are somewhat similar. The downy is a frequent visitor about the dooryard and orchard, especially when the leaves are off the trees. He seems always to be looking for something to eat, moving around the body of the tree, and then limb after limb, tapping, tapping with his sharp bill in all the cracks and crevices of the rough bark, looking for inscest and insect eggs. Even the tough woven cocoons of the larger moths do not escape him, for with his sharp bill he probes them to the center and devours the chrysalis within. The downy's nest is often made in a decayed limb of an apple tree, and the eggs, four or five in number, are like those of all other woodpeckers, pure white,

THE FRIENDLY "REDWING."

BY G. E. M.

In considering the value of birds, the fact should not be lost sight of that while many species do some actual visible harm, they may also, day by day, be doing a vast amount of good, quite unbeknown to the observer. A man watches his newly seeded wheat or corn; if he sees birds alighting in the field he may take the pains to stop and carefully watch to ascertain whether they are pulling up the seed. If he finds they are doing so, he naturally condemns the whole tribe, absolutely. Not one man in a hundred would Once a lot of boys were throwing stones think to inquire whether this was a regunot, as a matter of fact, much prefer certain noxious weed seeds, with a considerable proportion of destructive beetles and insects, simply dropping into the The Redwing Blackbird is probably a

good case in point. He is found all over the United States-a very handsome fellow, with bright scarlet epaulets on a glossy black coat. But some states have placed bounties upon their heads. In a few sections of the country the bird breeds in great numbers and undoubtedly does damage to crops; but as a rule he Agriculture, ranging through an entire ut. The nest was quite high up from the cent of the food consisted of grain, while ground, and the young birds were chock- 57 per cent was found to consist of weed them on striking the ground burst open, weed, etc. That these seeds are preferred and the sight we saw remains green in to grain is shown by the fact that the



The Amateur Sugar Makers-Clarence and Theodore Euper, of Barry Co., Mich.



You can protect the acres of corn and oats or whatever you grow from the crows and other pests that are such a nuisance to the farmer. Weasles, Gophers, Hawks, Blue Jays, Rabbits, Woodchucks, etc.

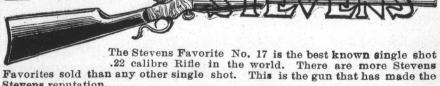
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The Stevens Visible Loading Repeating Rifle is guaranteed to be the most accurate .22 Repeater made.

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THE MICHIGAN FARMER.



If You Do, Change to Your Own.

could eat no lean,

licked the platter clean." A truly economical arrangement, for by

this means every scrap was utilized. And she knows he likes. But she is laying up suppose Jack had been like many a modcould eat no fat, had forbidden his wife to cook it? Or, at least, if he had not forbidden it, he had said so many uncomfortable things when she did cook her beloved fat, that poor Mrs. Jack had taken to sniffles and tears and given up cooking her favorite dish? What a blow to domestic economy, to say nothing of domestic happiness.

Yet such a state of affairs exists in many of our so-called happy homes. The wife cooks only those dishes which please her lord and master, and pines in secret for her favorite viands, which her husband crushingly designates "cow fodder" I know of men who acor "pig feed." tually forbid their wives to serve beet salad because it looks like blood; others who will not allow tomatoes to be served because they do not like them; still others who forbid lamb and mutton and command that only beef and pork be served for their table, and one or two who actually insist on hot biscuit every meal, year in and year out, without regard to the indigestibility or the extra work entailed. And the wives, for the sake of peace, put up with such impositions.

such one-sided bills of fare are bad for and the families who live on the same the cold remains of yesterday's meal. sort of fare year in and year out are not getting all the good possible out of their food.

blame the husband for his overbearing disposition, but both are to blame. Men, the best of them, are, by nature, a little The wife who is wise, little domain. recognizes this fact and calmly, without fuss or unnecesary words, insists on a few rights of her own.

I always feel like shaking the young next. bride who makes it her business to learn

"Jack Spratt could eat no fat, his wife all Jack's favorite dishes and then cook nothing else. Of course, it is pure, unsel-And so between the two of them they fish love which prompts here. She thinks nothing is too good for the man she married and she is happy in cooking what everything was amicable besides? But for herself a heap of trouble. Jack will picot of ring, six double draw up; turn take such things as a matter of course American husband, and, because he and come to expect her to cook everything thread and make a ring of two double, as he likes it, and if, when the novelty wears off, she ventures to cook in her ble, two double, draw up, turn the work own way, look out for a few nifty words and leave a short space of thread, make

from Jack and a few tears from Mary. Needless to say that things don't go that way in our household. When I was

amused in the same way until they reach the school age. Teach them to be persistent, but avoid as much as possible keeping them at one thing until it becomes tiresome. It may require extra effort on the mother's part now, but the reward will come with years, when the children begin taking their places in keeping the household wheels running smoothly. Then mother will find time for some of the things that must go undone now.

TATTED SCALLOP EDGING.

Make a ring of one double, eight picots each separated by two double; one double, draw up, tie thread and break off. Second Row: Six double, fasten in a the work and leave a short space of seven picots each separated by two dousix double, fasten in picot of foundation ring, six double draw up; turn the work, leave a short space of thread, make two a child I was frequently told that it did double, fasten in last picot of ring prefolks good to eat what they didn't like. viously made, two double. Repeat as be-Not only that, I had to eat what was fore, making the last picot always a little prepared for the meal without regard to longer than any of the others. When you personal likes, so long as the dish did have six of these outside rings and seven not make me ill. When I married I of the small ones and just one picot left thought the rule a good one and carried of the foundation ring the scallop is done. it out, with justice to both sides. If I Make others like it and fasten together cook what the man of the house likes by the third and fourth picots of each

best one day I cook what I like the next. outside ring. Make as long a strip as is If he reminds me that mother never did needed and sew on by the picots an l Such a state of affairs is bad for two that way, when I serve my favorite dish, reasons. First, because it puts the wife I calmly reply that my mother did, and in the position of a vassal and makes of that ends the argument. One day I eat when made of very fine thread is nice the husband a tyrant. Second, because what I don't like, for the sake of domestic for handkerchiefs. Number 40 thread is peace, the next day my husband can right for other purposes. everyone. A varied diet is best for all either eat what he doesn't like, or nibble

I suppose that will shock some young bride who wouldn't for the world cross her idol, but for an all the year round Of course, when we see individual cases arrangement it is far more satisfactory to of this sort we jump at conclusions and both sides than the other way. It doesn't pay in any household for either party to have all the say about how things should be done. Matrimony, like business, should tyrannical and like to be lords of their be a game of give and take. And I have noticed that the only really happy mar-

riages are those where husband and wife are both willing to give up, one making the concession one time, the other the DEBORAH.

small rings. This makes a dainty edging for underwear, pillow cases, aprons, and

SOME HANDY RECIPES.

Fig Paste for Layer Cake or Candies. Half pound good, fresh figs, chop fine, juice one lemon, one cupful hot water, three-fourths cupful sugar, cook slowly until a thick paste.

Mayflower Cookies.

To make three dozen, take one cup of sugar, two-thirds cup of butter, half cup of milk, sour or sweet, and one teaspoon each of soda and baking powder, two eggs, or they can be made without any eggs. Mix flour enough to roll out nicely and bake in a quick oven. Roll thin. Flavor to suit your taste.

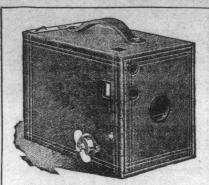
Fruit Ice Cream.

Half a gallon of new milk, one ounce of gelatine dissolved in cold milk and poured in, three eggs and four cupfuls of sugar; pour in the freezer. As soon as it begins to freeze add a pound of raisins, one pint of strawberry preserves, one pound of chopped almonds, one grated cocoanut, one pound each of currants and citron, and freeze.

Spanish Cake.

Two tablespoons melted butter, one cup sugar, one-half cup milk, three egg yolks, one and seven-eighths cups flour, one and one-half level teaspoons baking powder, one-half teaspoon cinnamon. Mix and bake in layers. Spread with opera caramel filling between and on top. Filling: One and one-half cups brown sugar, three-fourths cup thin cream, one-half tablespoon butter. Cook until a ball is formed when the mixture is tried in cold water. Beat until ready to spread.

Fried Apples and Bacon. Put a few pieces of sliced bacon in a with

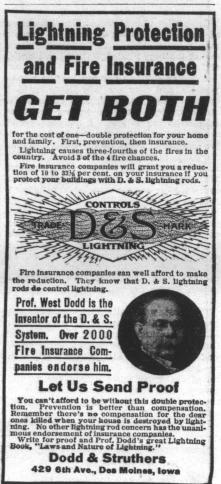


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A Few Ways of Amusing the Children.

we hear tired mothers say.

complish?

Those restless little bodies that mean play all the time. so much work, can be made to lighten the work while very young, if taught in the board and print a word on it or draw a right way. Once let them think they are picture and let them outline it with small helping mother or she is playing with buttons or corn. If they tire of that, give them, how eagerly they go about the things that seem small to older minds, but will lead to larger duties later. As soon as the little feet can walk steadily let them carry some little thing from dining room to kitchen, or send them upstairs after some forgotten article.

One little woman of three years has her comes back. What fun can be found in hunting the broom and carpet sweeper and the way spool, always hidden in sight but in out skillet. When it gathers fat take out the she helps mamma on sweeping days shows she, at least, thinks it no play. of the way places, under a chair, on a bacon, drain on brown paper. Core and And when, one day, the mother dropped corner of the mantel and sometimes on slice across new green apples unpeeled: of the way places, under a chair, on a bacon, drain on brown paper. Core and the plate of eggs she was carrying the mamma's head if she is not too busy to lay them in the bacon grease left in the concern expressed in the dimpled face as join in the game. A small blackboard will help prepare molasses and a tiny bit of water; turn she exclaimed, "Why, mamma! why didn't you let me carry them for you? Why them for school and need not be tiresome. often with cake turner. They must be didn't you take them one at a time?" Begin with straight lines and crosses, it dark brown. showed the responsibility she felt. will help them to control the hand that is Then let them have their rolling pin often so unsteady, when first learning to and board on bake days, and little tub make the letters. A hammer and nails, with some pieces and wash board on Monday. It may cause more work to clean up after them of board will help build the most wonder- hot; grease it well and fill it about one but the time is saved in having them ful house for dolly, or a barn for the quarter with this mixture. Bake in a rocking horse and while they are busy near by. A berry box covered with crepe paper with the seemingly little things they are makes a dainty little work box, and when learning life lessons. These are just a few ways in which to they will fall. They pop over the top of stocked with needles, thread, a pair of blunt scissors and a thimble just fitting amuse them; the mother's mind can read- the pan and are hollow inside. Are dethe wee finger, will be a source of great ily devise more. Boys and girls can be licious with sweet butter and maple syrup.

"Oh, Dear! I could accomplish so much pride. If a small work table just matchif it were not for the children," how often ing the little chair is added it will be a we hear tired mothers say. But did you ever think, weary mother, busy the restless fingers with a new dress if it were not for those same children for dolly, or perhaps they can be trusted there would not be so much to ac- to sew on a button for mamma. Of course, you can not make believe work is

> On rainy days take a piece of pastethem a small bag filled with beans or sawdust and let them try tossing it into a basket, or incline a board at one end of the room and station the children at the other with a soft rubber ball and promise them a reward as soon as they can roll the ball up the board and catch it as it

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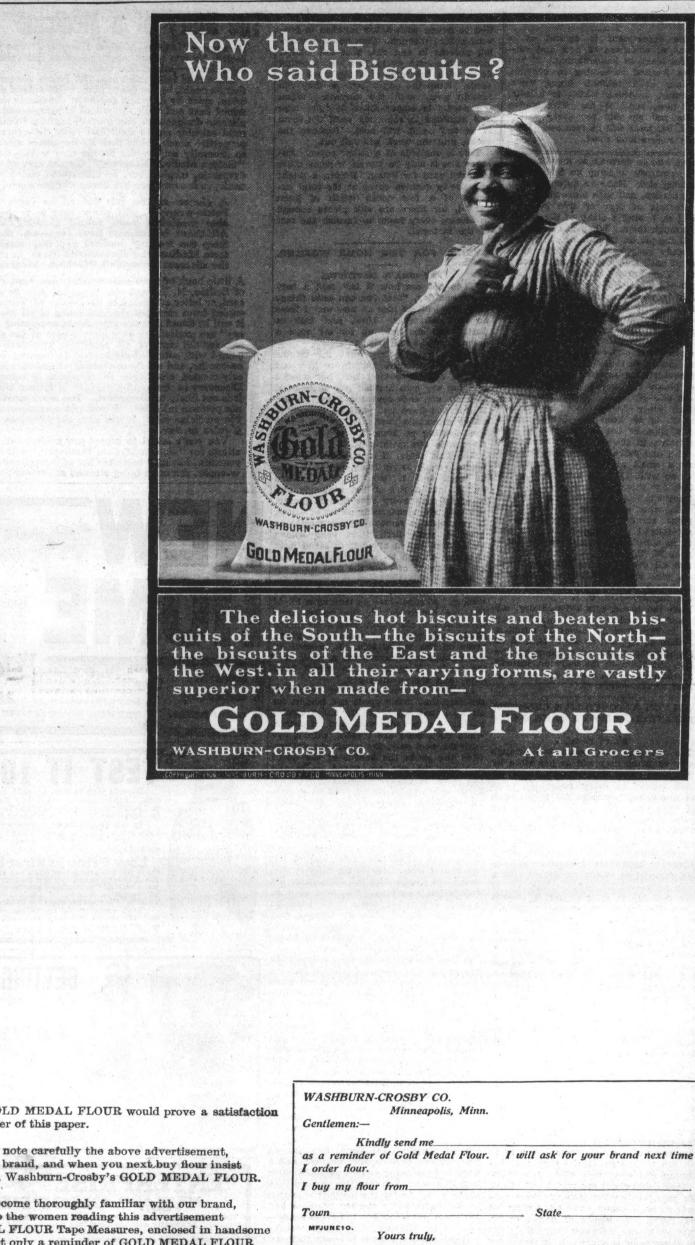
them three spoons of skillet, cover

Popovers.

Beat well three eggs, to which add one cup of flour, a pinch of salt and one cup of milk. Have your pop-over pan real moderate over three-quarters of an hour. Do not open the oven door until they are baked. They must be eaten at once or for only \$1.35, including a free premium. THE MICHIGAN FARMER, Detroit.



THE MICHIGAN FARMER.



WOMEN

1001

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SHORT CUTS TO HOUSEKEEPING.

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

When one is darning or mending, it is often necessary to jump up to look after something else. Make an apron, rounding at the bottom, and with brass rings sewed at intervals of four or five inches all around it, having a strap of the material run through them. When you have to get up, all the pieces, thread, etc., in your lap are easily caught up by pulling up the strap at each side and looping it over the The apron should be of knee arm. length .- Mrs. E. G.

A little piece of butter added to rice will prevent it boiling over .- Mrs. W. H. I buy wire clothes hangers that screw into the wall to hang dishpans on. These are much better than nails because the pan can never slip off on account of the bend upward in the end .- N. F. M.

If nasturtiums are planted among cabbage plants the worms will not eat the leaves off .-- N. F. M.

Most every housekeeper knows how hard it is to keep the holders clean. Sew a ring, or the bottom part of hose supporters, in the corner, to hang them up with and make the covering separate. Have a small safety pin to fasten the cover on with. Make a number of covers and change them often .- Mrs. C. M. K.

If any one has an oil heater which is in the way when not in use, try using it for a plant stand. Put a centerpiece or bright-colored paper napkin on top and place in a bedroom or kitchen window.---Mrs. J. W. T.

Save all cans such as baking powder, cocoa, etc., to keep the garden seeds in from year to year. Label with the name of the variety .- Mrs. C. L.

When the bread gets old and dry, dip the loaf for a second in hot water, then place in the oven for about 15 minutes. Will then be as good as new .- Mrs. C. L.

If you make sheets with seams up the middle, run them on the machine, instead of overhanding. The seams will not keep anyone awake .- T. F. C.

HAVE YOU A WOVEN SILK CUSHION? THIS TELLS HOW TO MAKE ONE.

BY E. E. R.

The woman who never has enough pretty cushions may add to her store by utilizing the odds and ends of silk scraps which collect in every household. Cut and sew a half pound as for carpet rags, and then weave them into a square top in the manner described below.

From four light pieces of smooth wood construct a frame by fastening the four corners with nails or screws. These strips may be a little longer than the desired dimensions of the completed fabric, so as to allow the ends to lap two or more inches. If a cover for a 20-inch pillow is planned make the frame 20 inches square, inside measurements. The frame should be firm enough so as to keep its shape and not twist at the corners.

Now drive common carpet tacks on two of the four sides, at an even distance apart, close enough for the warp which is to be strung from one tack to another, one-fourth of an inch or less, according to the desired closeness of the weaving. One-fourth inch apart gives fair results, although to have the tacks closer will make a firmer fabric when completed.

handy man of the house construct a long, slender needle of hard wood, with an eye in one end similar to a darning needle. This should be made quite smooth. With dyed a different color in this manner. If the loom and shuttel ready the next step it is not just right the first time give it is threading the former with warp. For a second dressing. This paint must be this use black linen thread, drawing it used over the tacks snugly from one side to applied rapidly. In some dye houses the other. Fasten at the corner of be- feathers are dyed in this manner, and 1 ginning and ending.

silk rags, cut on the bias wherever con- shake well. As for the feathers it is well venient, with colors assorted, as for hit to get some white chicken feathers and and miss. Use plenty of bright colors, try them until you get the right shadealso of black, avoiding any that has and let me whisper to you that one enheavy cords or selvidge which would not terprising woman made her own feathers. weave in smoothly. Thread the wooden She saw the coque feathers so much worn needle with one end of the rags and and decided they were like what her draw through a yard or more, as much chickens had in their tails. When a as can be easily handled. Now, taking chicken was killed she saved these tail the loom upon the lap the operator passes feathers and colored them to suit her the needle over and under the warp fancy and no one ever was the wiser.

threads, drawing the rags along until the end one is reached where it should be tied or sewed with a few stitches to prevent pulling through. Continue the weaving process in and out, over and under, alternating with every row and pressing down with the fingers as the work proceeds. Keep the edges loose so they will remain even with the corners. When the needle is empty draw in more rags and continue in this way until the loom is as full as it will hold. Remove the tacks, and the work will fall out.

THE MICHIGAN FARMER.

This is one side of a pillow cover. Another like it may be woven or some other material used for lining. Result, a bright and pretty cushion cover at the total expense of a few cents worth of linen thread, for there are silk pieces enough in almost every home to furnish the rest of the material.

DYEING FOR THE HOME WORKER BY IRMA B. MATTHEWS.

"I do not see how it is," said a lady to me one day, "that you can color things and they look as nice as new and I have no luck whatever. Now, just look at that!" and she held up for my view a dress skirt she had tried to color.

I knew at a glance what the trouble was, and I tried to explain to her that she did not follow directions, but when I told her my own method she declared it was all nonsense and too much bother. But if you have not patience enough to follow directions implicitly, do not try to dye clothing at home for you will only meet with disappointment.

The first thing, if a garment is to be made over, is to rip it up, but if it is to be worn as it is, color it whole. Then put it into a tub of hot soapsuds and carefully soap every spot that is greasy. rub well, and rinse, using plenty of water. If you wish to remove as much color as possible rinse first, then pour boiling water over it and allow it to stand until it is cool enough to ring by hand. If you get a quantity of color the first time, repeat the process.

Another thing too often neglected is the rinsing. Always rinse as long as a bit of the dye comes out in the water, some times five or six times, then hang in the shade and when dry enough to press, press on the wrong side. If pressed on the right side always place a cloth over the goods. Treated in this way I have never had a garment crock.

Another common cause for failure is the fact that many goods are bought for all wool that are in reality but a combination of cotton and wool, and, of course, when such good are treated with a dye bath for wool only, the result is a failure. Give the goods the benefit of the doubt and buy the dye for mixed goods and the result is always satisfactory. Cotton goods are just as easily dyed as woolen, although but comparatively few people seem to realize this and many garments are thrown away that would be as good nearly, as new, if colored. My little daughter had a pretty, pale-pink lawn dress that after the first season left but one of two things to do, color or dis-card it. I dyed it and the dress came out a beautiful rose pink. The best of it is, it has not faded since with repeated washings. Faded gingham dresses may be colored a dark blue and make pretty school dresses when they were no longer presentable in the original state.

Really, but few things have escaped the dye pot in our home. I keep a package of nearly every color on hand and when daughter's hair ribbons are no longer presentable, a bit of dye dissolved in a granite basin makes them as good as new. I have even colored our hats although I usually use a different method for them. The most satisfactory is to take the com-In lieu of a weaver's shuttle have the mon tube paints that artists use, dissolve n gasoline and apply with a stiff brush. This is especially good to freshen a color that is faded but a light hat may also be not near a fir have colored faded roses and made them Have ready about one pound ball of soft look like new. Dip into the mixture then

The Story of a Medicine

-"Golden Medical Discovery" was sug-Its name-

gested by one of its most important and valuable ingredients—Golden Seal root. More than forty years ago, Dr. Pierce discovered that he could, by the use of pure, triple-refined glyco-erine, aided by a certain degree of constantly main-tained heat and with the aid of apparatus and ap-pliances designed for that purpose extract from our pliances designed for that purpose, extract from our most valuable native medicinal roots their curative

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A little book of these endorsements has been compiled by Dr. R. V. Pierce, of Buffalo, N. Y., and will be mailed *free* to any one asking same by postal eard, or letter addressed to the Doctor as above. From these endorsements, copied from standard medical books of all the different schools of practice, it will be found that the ingredients composing the "Golden Medical Discov-ery" are advised not only for the cure of the above mentioned diseases, but also for the cure of all catarrhal, bronchial and throat affections, accom-pained with catarrhal discharges, hoarseness, sore throat, lingering, or hang-on-coughs, and all those wasting affections which if not promptly and prop-erly treated are liable to terminate in consumption. Take Dr. Pierce's Discovery in time and persevere in its use until you give it a fair trial and erly treated are liable to terminate in consumption. Take Dr. Pierce's Discovery in time and persevere in its use until you give it a fair trial and it is not likely to disappoint. Too much must not be expected of it. It will not perform miracles. It will not cure consumption in its advanced stages. No medicine will. It will cure the affections that lead up to consumption.

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

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



a short but severe attack of pneuing It was directly due to Mr. Bird's monia. efforts that the state organization of Farmers' Clubs was effected. Nearly 17 years ago, through his initiative. the officers of the few scattered local farmers. clubs then in existence met in Lansing, formulated a plan and effected the organformulated a plan and effected the organization of the State Association of Farmers' Clubs. Hon. William Ball, of Hamburg, was made the first president of the organization and Mr. Bird its first secretary, he succeeding to its presidency the following year. Mr. Ball was the first of. those who were active in the founding of this organization to be called from active life by the grim messenger, and Mr. Bird is its second president to answer the same final summons.

Arthur Cranson Bird was born in Highland, Oakland county, Michigan, May 22, 1864, his father being Joseph Johnston Bird, a prominent farmer of that township, and his mother Elizabeth Cranson Bird. The Bird and Cranson families were pioneers of Michigan, being in the first company of settlers in Livingston county, Michigan. Mr. Bird received his education at the Michigan Agricultural College, from which institution he received the degree of Bachelor of Science in 1884. From that date until 1898 he lived upon his farm in Highland, begin- by ning upon a small farm which he soon enlarged and upon which he built a subentarget and upon which he bonn a sub-stantial country home. Following the or-ganization of the State Association of Farmers' Clubs, he became an associate editor of the Michigan Farmer, conduct-grown by one member; also for the most ing the Farmers' Clubs Department, which tastefully arranged bouquet. was established to promote the interests of this new farmers' organization, which position he retained for five years, or until his ever widening business interests compelled him to give up this work. He was appointed a member of the State College, which position he held for three years. His work in connection with the college compelled his removal from the farm to Lansing, where he soon formed many business connections and later as-sumed an active part in the up-building of the capital city. For the past five years he has held the office of State Dairy and Food Commissioner, during which on in a way that brought it to my atten-

THE MICHIGAN FARMER. THE MICHIGAN FARMER. time this state department has fostered tion with renewed force as one of the

and benefited the dairy interests of the strongest factors in Grange success. state as never before. complishments was longer than the avermany more years of usefulness.

Mr. Bird was married on August 16, 1889, to Josephine St. John, of Highland, Michigan, who survives him. He also leaves two sons and two brothers, with whom many readers of these columns will unite in mourning his loss.

CLUB DISCUSSIONS.

Associational Sentiment.— The farmer, he garners from the soil the primal wealth of nations. ARTHUR CRANSON BIRD. The charter members of Michigan State Association of Farmers' Clubs, in common with his wide circle of friends in that or-ganization and throughout Michigan, were shocked to learn of the death of Ex-As-sociational President Arthur C. Bird, who died at his home in Lansing on Friday morning, May 27, of heart failure, follow -Cor. Sec.

Summer Picnics.—When any club in the state decides on the date and place when its summer picnic will be held, we would be glad to have the corresponding secre-tary advise the editor of this department. These meetings are often made the occa-sion of visits to other clubs by members who would like to know the time and place of meeting, for which reason we would like to publish the dates of as many as possible in this department.

GRANGE

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

THE JUNE PROGRAMS.

State Lecturer's Suggestions for First Meeting. "And what is so rare as a day in June? Then, if ever, come perfect days."

Lowell.

One magazine that interests me and hy; ten-minute talk. Reading, "Disease Danger in Dirt." General discussion on above topics, led

General discussion on the by the Master. One book that I enjoy, and why; fifteen-

One poem that many people like, and brief sketch of the author. Suggestions for Second Meeting.

(Flora's Day program, suggested by rs. M. Ella Morrice, Flora of State Mrs Mrs. M. Ena Morrice, Flora of State Grange). Invite all children of the neighbor-hood; decorate the hall with flowers, and fill all offices with ladles. While singing, "Wayside Blossoms," page 137 in Grange

"Wayside Blossoms," page 137 in Grange Melodies, the door opens and Flora enters preceded by Ceres and Pomona. All rise to greet her as the two sisters strew her path to the court with flowers, where they step one side to allow Flora to take the chair usually occupied by Ceres. Then Ceres, with appropriate remarks, crowns Flora with a wreath of flowers. Flora gives an address of welcome and presides during the following program: Reading, "Flowers," (by Longfellow). Lily march and song. "Come where the lilies bloom so fair," by ladies' quartette. Recitation, "The Flowers' Ball." Flower exercise.

Flower exercise. Paper, "Flowers and their significance

PROMPTNESS A FACTOR IN GRANGE

SUCCESS.

When Mr. Rockefeller was on the witness stand a few months ago, he apolo-Board of Agriculture in 1897 and in 1899 gized for being five minutes late, stating was made secretary of the Agricultural that it was the first offense of the kind in his life. Whatever we may think of

Notwithstanding is an old and familiar theme, that of his almost phenomenal business success, opening and closing a Grange on time. I in large and varied undertakings, Mr. Bird scarcely know what there is new to be ever retained his interests in the up- said upon the subject; and yet I am conbuilding and progress of Michigan agri- vinced that if, just now, every Grange culture. His life was short as measured would rigidly stand by its resolution to by years, but from the standpoint of ac- open its meetings upon a fixed time, to observe its lecture hour with like reguage lifetime, yet a host of friends through- larity, and to close promptly at a seasonout Michigan and many beyond its bor- able hour, there would be an end to the ders unite in regret that such a useful cry, "No meetings in summer." There is, life might not have been prolonged for in fact, no better move for any Grange to take at this time of year than to vote to adopt the "8-9-10 rule," which simply means that they will open at eight, begin the program at nine, and close Grange at ten o'clock.

Let us be honest and do a little selfsearching within ourselves. Even though we live upon farms and have a multitude of summer duties, is that sufficient excuse for being unbusiness like? Is not what is worth doing at all, worth doing well? If we must take a train, do we not "make it" on time scheduled by the railroad? If we attend church, do we expect the minister to wait till the people are assembled? Are schools held open until the children have drifted in from our various homes? When we wish to enjoy a lecture or play, do we not expect to miss a portion if we arrive late? Did you ever do some sputtering when you had an early call at a hotel and, upon descending to the dining room, were met with the excuse, "The girls didn't wake up and breakfast is not ready?" Why, then, must ministers, railroad employes, hotel girls, teachers and business men be on time in order to insure successful enterprises, and we of the Grange expect to succeed on a different basis? Business is business and the life of business is promptness. Business brooks no excuses. It is not always easy to meet its demands. None of us is guiltless of occasional failure, but as individuals we should strenuously strive after promptness in our organizations.

Among the suggestions made along this line at the conferences were the following:

1. Adopt the "8-9-10 plan." 2. Begin on time, if one person fills

three offices. 3. Proceed with everything connected with a regular meeting, except actual

business transactions, when a quorum is not present. Make practice in entering the 4.

Grange a part of the program in order to teach members how to enter in case they arrive late. 5. When the time for the lecture hour

arrives, let the lecturer arise and respectfully ask to be allowed to present his program. This one thing, if persisted in and followed by bright and catchy program features, will go a long, long way toward building up a comatose, or even an "insurance," Grange.

I firmly believe that such a constructive policy as this, faithfully acted upon for six months, will furnish the framework upon which any Grange, however rundown-at-the-heel it may be, can be made into a respectable sort of an organization. It will at least afford grounds for self-JENNIE BUELL. respect.

TWO MORE FOR JACKSON COUNTY

TWO MORE FOR JACKSON COUNTY. South Henrietta Grange.—Deputy Wilde organized a Grange of 42 members at the Southwell school in the southern part of Henrietta township, Jackson Co., Friday evening, May 27. The following are the officers: Master, D. T. Elliott; overseer, Orvis Baxter; lecturer, Ella Spears; stew-ard, T. J. Spears; assistant steward, Hazel Van Dorn; chaplain, Nellie Olney; treas-urer, Mary Harrington; secretary, B. R. Harrington; gate keeper, Elmer Stetler; Ceres, Jennie Palmer; Pomona, Emma Bratt; Flora, Olive Nobert. Napoleon Grange Organized.—Deputy Wilde organized a Grange at the Griffin school in the west part of Napoleon town-ship, Jackson Co., Wednesday evening, May 18, with 44 charter members. The following are the officers: Master, Wells Bennet; overseer, Fay Winchell; lec-turer, Nellie Russell; steward, Richard Densch zender densch Zucht Smith;

tt; overseer, Fay Winchell; lec-Nellie Russell; steward, Richard turer. Turer, Neine Russell; steward, nichard Bronk; assistant steward, Dwight Smith; lady assistant steward, Celia Smith; chaplain, Homer Foster; treasurer, Joseph Galusha; secretary, M. E. Russell; gate keeper, Wm. Russell; Ceres, Erma Pres-ton; Pomona, Anna Saunt; Flora, Mildred Long.

COMING EVENTS.

Pomona Meetings.



(22)

(13) 589

588

ACME WHITE LEAD AND COLOR WORKS DEPT. AA DETROIT, MICH.



MARKETS

DETROIT WHOLESALE MARKETS.

DETROIT WHOLESALE MARKETS. June 1, 1910. Grains and Seeds. Wheat.—The wheat market has been decidedly bearish this past week. Prices are off fully six cents from a week ago. Heavy holders found themselves facing disaster so they unloaded their wheat up-on the market, causing the bears to take courage and gave the trade its downward momentum. Prices abroad are relatively as low, or lower, than here, which cuts off and foreign demand. Ability to get wheat from other lands allows them to disregard American wheat for the pres-ent. The crop news for the past few days has been bullish since the cold wave has not encouraged the plant to do its best. The visible supply shows a large decrease for this season, while the demand for cash grain showed improve-ment during the past few days. But this bullish news did not check the decline. One year ago the price for No. 2 red wheat was \$1.55 per bushel. Quotations for the gave the start. No. 2 No.1 Red. White. July. Sept.

Red.	White.	July.	Sept.
Thursday1.06	1.06	96%	96
Friday1.05½	1.05½	96	95½
Saturday1.03	1.03	95%	94½
Monday1.03 Tuesday1.03 Wednesday1.05	1.03 1.05	94½ 96	93 1/2 94 3/4

Wednesday1.05 1.05 96 944 Corn.—While the trading in the corn department of the market was accompa-nied with declines in value the outlook for the coming crop is not so favorable as it was last week. Cold weather and, in some sections where corn is an im-portant crop, frosts have occurred to de-lay later and put back what was grow-ing. The early expectations of the farm-ers that the corn crop would be earlier in the ground than for many years have not only faded entirely but the planting is now later than normally. This is a bullish condition and should the unfavorable tem-perature continue it is more than prob-able that advances will occur in quota-tions. A year ago the price for No. 3 corn was 76c per bu. Quotations for the week are: No. 3 week are: No. 3

a light to the pair and the second	No. 3 Yellow.
Thursday	601/2 62
Friday	581/2 60
Saturday	
Monday	
Tuesday	
Wednesday	
Oats There are substan	ntial declines in

Sta Thursday Friday Saturday Monday Tuesday Wednorday 41 Tuesday Wednesday

Beans.—There are no transactions in beans. The market is steady and the nominal quotations are unchanged from those of a week ago. Quotations for the week are: Clach

																Casn.	OCI
Thursday																\$2.20	\$2.0
Friday .																2.20	. 2.0
Saturday																	2.0
Monday																	
Tuesday				÷			1									2.20	2.0
Wednesd	à	v														2.22	2.0
	1		4			÷.		١.	2		4	4	1		_		11

Cloverseed.—This deal is practically at a standstill. The prices quoted are a little lower for the October option. A few sales of cash goods were made at slightly advanced values but not enough to es-tablish a figure for such goods. Quota-tions for the week are:

Prime Oct. Thursday \$6.40 Friday 6.40 Saturday 6.40 Monday 6.40 Tuesday 6.40 6.40 6.40

Visible Supply of Grain.

	F	10	ΣL	11	٠.		F	-	ee	20	١,		ł	•	r	ov	isi	01	ns,		Etc				
Barley				÷			• •		•			•		•	•	1,	66	1	,00	0	2	,1	52	,00	U
Rye .						•				• •	•		•	•	•		51	8	,00	0				,00	
Oats				•								•				8	,9()5	,00	0				,00	
Corn								• •								5	,49	0	,00	0				,00	
Wheat				•	•		÷	• •				•			•	20	,13	33	,00	0				,00	
																					Las				

Flour.-Market is improving under the range of prices established a week ago. Quotations as follows:

Clear s follows: Straight 5.25 Patent Michigan 5.55 Ordinary Patent 5.55

131/2 c per lb. Hides.—No. 1 cured, 10c; No. 2 cured, the growers.

9c; No. 1 green bulls, 8½c; No. 1 green calf, 15c; No. 2 green calf, 14c; No. 1 cured calf, 16c; No. 2 cured calf, 15c; No. 1 horsehides, \$3.50; No. 2 horsehides, \$2.50; sheepskins, as to wool, 20@60c.

cured calf, 16c; No. 2 cured calf, 16c; No. 1 horsehides, \$3.50; No. 2 horsehides, \$2.50; sheepskins, as to wool, 20@60c. Dairy and Poultry Products. Butter.—Because dealers have trouble in getting butter to fill orders the firm prices that have prevailed this spring, continue. The much talked of advance that dealers were expected to enforce for the purpose of causing Chicago packers who had contracted for some \$,000,000 bs., to rescind their agreement, has not taken place; but the buying of western men for storage purposes has materially shortened the amount going on the gen-eral market and is held to be an import-ant factor in the present bullish nature of the trade. Quotations are: Extra creamery, 28c; firsts, do., 27c; dairy, 21c; packing stock, 20c per 1b. Egg.—Eggs have been coming to the market in good supply this past week and figures are lower. An excellent demand is keeping the market very active to dis-tribute the offerings. Quotations are exchanging hands at 19½c per doz. **Poultry.**—This deal is very small. The offerings are light but the trade is firm. Broilers are higher. Following are the leading quotations: Live.—Broilers, 26@ 28c; spring chickens, 18c; hens, 18c; old roosters and stags, 12@13c; ducks, 13@ 16c; geese, 12c; turkeys, 18@19c per lb. **Cheese.**—Michigan, late made, 15@15½c; Michigan, fall made, 18@19thy. Tork state, 19@20c; limburger, Wisconsin, 17 @18c; New York, 18@19c; bricks, 16@ 16½c; Swiss, domestic block, 21c; Swiss loaf, 28c. **Calves.**—Steady. Choice to fancy, 11½ 12c; ordinary, 10@11c. **Fruits and Vegetables. Aples.**—Steady and in good demand. Spy, \$4@4.50; Baldwin, \$4@5; Steel red, \$6.50@7. **Cabbage.**—Selling at \$2@2.50 per crate for new. **Strawberries.**—Lower. A few Michigan

Cabbage.-Selling at \$2@2.50 per crate

Cabbage.—Selling at \$2@2.50 per crate for new. Strawberries.—Lower. A few Michigan berries are coming but the amount is too small to make a market. Per 24-qt. crate, \$3@3.25. Vegetables.—Beets, 60c per bu: carrots, 90c per bu; cauliflower, \$1.25@1.50 per bu; celery, 75@90c per case; eggplant, \$1.50@ 1.75 per doz; green onions, 10@12c per doz; head lettuce, \$2.50@3 per hamper; mint, 25c per doz; parsley, 25@30c per doz; radishes, 12c per doz; spinach, 65@ 70c hamper; turnips, 50c per doz; water-cress, 20@25c per doz; wax beans, \$1.75 @2 per bu; pieplant, 25c per doz; aspará-gus, 75@80c per doz.

OTHER MARKETS.

Grand Rapids.

Grand Rapids. Wheat, oats and corn are about 4c lower, and rye is off 2c, quotations being as follows: Wheat, \$1:01; corn, 62c; oats, 42c; rye, 70c, and buckwheat 55c. The bean market has been doing better, though prices are steady now at \$2 for white pea and \$2.75 for red kidneys. Egg receipts continue liberal for this time of year, with prices steady at 19c for stock delivered here. Dairy butter is un-changed, dealers paying the country trade 22c. Creamery is also steady at 25c. No change in live poultry, prices for stock delivered being as follows: Fowls, ducks and turkeys, 14c; old roosters, 9c. Dressed hogs will probably be lower before the end of the week, prices ranging now from 11@114c. Farmers are getting 6@9c for yeal.

Chicago. red, 99c@\$1.02; July,

veal.

Chicago. Wheat, No. 2 red. 99c@\$1.02; July, 93%c; September, 91%c. Corn.-No. 2, 57%@57%c; July, 57%c; September, 58%c per bu. Oats-No. 3 white, 35%@37%c; July, 36%c; September, 35%c. Butter.-The demand for butter is very broad, coming from both consumer and storage men. Prices firm at last week's values. Quotations are: Creamerles, 25@27%c; firsts, 17%c; at mark, cases in-cluded, 15%@16%c per doz. Hay and demand fair. Prime firsts, 18%c; firsts, 17%c; at mark, cases in-cluded, 15%@16%c per doz. Hay and Straw.-Hay is higher while straw rules lower. Quotations are: Choice timothy, \$16@17; No. 1 timothy, \$14@15; No. 2 do. and No. 1 mixed, \$12.50 @11.50; rye straw, \$8@9; oat straw, \$6.50 @7; wheat straw, \$8@6.50. Potatoes.-Values are on a lower basis than last week but there seems to be a steady undertone at the new figures. Fancy and choice stocks are selling at 28@30c per bushel, while fair to good, grades are quotable at 23@27c per oushel. Beans.-Red kidney higher. Common beans lower. Choice hand-picked are puoted at \$2.22@2.27%; fair to good, \$2.15@2.20; red kidneys, \$3.10@3.35 per bushel. Wool.-The trade this past week has been stady and firm at the values guited

Wool.—The trade this past week has been steady and firm at the values quoted a week ago. For fine unwashed delaine, 23@25c is being paid.

New York. Butter.—The trade is firm at un-changed values. Demand is excellent. Creamery specials are quoted at 29c; process butter, 23@26c per b. Eggs.—The values of a week ago are maintained. Nearby eggs are quoted at 24@26c; regular packed extra firsts, 21@ 21%c per doz. Poultry.—Trade steady. Western fowls, 14@19c; frozen chickens, 16@23c; turkeys, 15@18c per lb.

Boston. Wool.—About all that can be said of this trade is to repeat what has already been written. The manufacturers want material but are not inclined to pay the producers in general are holding out for the prices asked earlier in the season. The result of these conditions is that practically not transactions are being car-ried on, either with the manufacturers or the growers. A year ago consignments

Buffalo. May 30, 1910. (Special report by Dunning & Stevens, New York Central Stock Yards, East Buffalo, N. Y.) Receipts of stock here today as follows: Cattle, 150 cars; hogs, 11,200; sheep and lambs, 6,600; calves, 2,000. Receipts of cattle here today, 150 cars, and the general market was 10@15c lower on the dry-fed stuff, and the grassy stuff sold from 25@40c per hundred weight lower; in some instances a half a dollar per hundred lower on bulls and cows. We quote: Best 1,300 to 1,450-lb, steers, \$6.50@7.25; medium butcher steers, 1,000 to 1,100 lbs., \$66@6.25;light butcher steers, \$5.25@5.75; best fat cows, \$6.25@6.50; fair to good cows, \$4.75@6.25; carr to good do., \$3.50@4; best fat heifers, \$7@7.25; good fat heifers, \$5.75@6.25; fair to good do., \$3.50@4; best fat heifers, \$5.25 @5.50; medium to good do., \$4.25@4.50; stockers, all grades, \$3.50@4; best bulls, \$6@6.50; bologna bulls, \$4.50@5.50; light hin bulls, \$3.50@4.25; best milkers and springers, \$50@60; common to good do., \$25@4.50; medium to good for, \$4.25@4.50; stockers, all grades, \$3.50@4; best bulls, \$6@6.50; bologna bulls, \$4.50@5.50; light hin bulls, \$3.50@6.25; best milkers and springers, \$50@60; common to good do., \$25@4.50; Milkers and springers sold from \$3@5 hower today; receipts were mostly on the

\$25@45. Milkers and springers sold from \$3@5 lower today; receipts were mostly on the common order. With 70 cars of hogs on sale today, the market opened about steady to strong with Saturday's close, and continued steady throughout the day, with a good clearance.

steady throughout the day, with a good clearance. We quote prices as follows: Mixed, medium and heavy, \$9.75@9.85; good weight yorkers and light mediums, \$9.75 @9.90; pigs and light yorkers, \$9.90@10; roughs, \$8.75@8.80; stags, \$7.50@8. Pros-pects look fair for the near future. The lamb market opened active today, with most of the best lambs selling from \$8.85@8.90; few fancy at 9c. Market closed weak; all best handy weight lambs selling; few coarse and heavy lambs un-sold. Look for lower prices balance of week. Sheep were active at 50c per hundred weight lower than last week. Most of the best wethers selling \$5@5.25. Don't look for much improvement in the sheep trade. We quote: Handy lambs, \$8.85@8.90; heavy lambs, \$8@8.25; wethers, \$5@5.25; ewes, \$4.50@4.75; yearlings, \$6@6.50; cull sheen \$2.50@2.60.

sheep trade. We quote: Handy lambs, \$8.85@8.90; heavy lambs, \$8@8.25; wethers, \$5@5.25; ewes, \$450@4.75; yearlings, \$6@6.50; cull sheep, \$250@3.50; skip lambs, \$4.50@5.25; bucks, \$3@4; yeals, choice to extra, \$8.50 @8.75; fair to good do., \$7.50@8.25; cull to common, \$6@7; light thin caves, \$5@6.

Chicago. May 30, 1910. Cattle. Hogs. Sheep. Received today ... 13,000 31,000 11,000 Same day last year. 20,624 41,568 \$,185 Received last week .. 45,976 118,126 58,092 Same week last year. 42,277 161,459 56,740 Today is a holiday, and the packing houses are closed. There were good hog receipis, and the demand was active at steady prices, the top being 5c lower than Saturday. Sales ranged at \$9.30@9.65. lots averaging 300 lbs. being discriminat-ed against, with light hogs and butcher weights most favored. Boars sold at \$44 @5, stags at \$9.35@10 and pigs at \$9.30@ 9.65, the heavier pigs selling the highest, while heavy stags sold below lighter ones. Cattle were in unusually small supply and sold at steady to 10c better prices, ad-vances being wholly in the choicer beeves. Sheep and lambs sold at steady prices, wethers being salable at \$4.85@5.25, ewes at \$3@5, bucks at \$3.75@4.75, yearlings at \$5.50@6.50, fed lambs at \$4@8.60 and spring lambs at \$5.75@9.35. The hogs marketed last week averaged in weight 240 lbs, compared with 218 lbs. one and two years ago and 236 lbs. three years ago. Sheep took a fall last week of 50@75c,

in weight 240 lbs, compared with 218 lba, one and two years ago and 236 lbs, three years ago. Sheep took a fall last week of 50@75c, while lambs sold off 15@20c for con-mon and medium grades. Cattle took a downward course last week, buyers taking advantage of good offerings on Monday and Wednesday to force a break, but most of the deeline occurred on the latter day, packers and shippers holding off for more favorable terms. The week's sales of beef steers were largely at \$650@8, with a good showing of \$8.10@8.75 beeves on Monday. Prices for the week's were largely 25c that \$5.50@6.50, while medium lots sold at \$6.50@.725, good-cattle at \$7.50@.7.75, and choice to fancy heavy shipping steers at \$86.76.7.55, mod-cattle at \$7.50@.7.75, and even greater deeline, cows and helfer finding buyers at \$4.10@7.25, with sales of canners and cutters at \$2.50@4, while buils brought \$3.75@6.50. Indications point strongly to further reductions in all cattle that come into competition with grass cattle from Texas and other southern pastures, and even good cattle will doubt have heavy catters and springers had a very poor demand from eastern buyers at \$30@70

JUNE 4, 1910.

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LIVE STOCK NOTES.

According to reliable information based on careful research, the present supply of cattle in Illinois, Indiana, Iowa, and con-tiguous territory is not only less than a year ago, but is considerably below nor-mal supplies. There is a wide-spread sentiment among farmers in this region that the high price of farm lands makes feeding cattle as a rule an unprofitable industry. industry.

industry. Spring lambs are being marketed thus far in limited numbers from Tennessee, Arizona, Illinois and other states, their average quality being none too good. The lamb "crop" is late this year, and mar-keting will be delayed for this reason. After fed stock is out of the way, there will undoubtedly be a strong demand for the youngsters.

After fed stock is out of the way, there will undoubtedly be a strong demand for the youngsters. Reports from Utah state that two mil-lion sheep are being sheared, the clip be-ing approximately 13,000,000 pounds, and it is reported that the bulk of the wool was contracted for at 18 to 22c a pound as long ago as last autumn. The tremendous drop that has taken place in sheep and lamb prices has been a surprise, as well as a bitter disappoint-ment, to sheepmen. Low prices are ex-pected until Ohio, Indiana and Michigan sheepmen dispose of their flocks. More feeding was done than was generally sup-posed, and owing to an unusually early spring, sheep and lambs got fat earlier than usual, while the high prices tempted their owners to rush them to market simultaneously, thereby breaking prices. Farmers who own growing pigs are giving them all the corn they can get away with, and the result is the best hogs are offered in the markets of the country. As a general rule, the pigs are healthy, and sickness seems to be unusu-ally rare among the pigs in the middle west.

THE MICHIGAN FARMER.

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. June 2, 1910.

Cattle. Receipts, 431. ipts, 431. Market active and 25c than last week account of very nigher

cows av 1,200 at \$4.75, 2 do av 760 at \$3.50.
Veal Calves.
Receipts, 1,018. Market strong at last week's prices. Best, \$8.25(78.50; others, \$4@8; milch cows and springers steady.
Spicer & R. sold Prong 16 av 125 at \$7.90; to Goose 9 av 150 at \$6.25, 2 av 140 at \$8.25, 10 av 109 at \$6.60; to Thompson Bros. 38 av 140 at \$8.15; to Mich. B. Co. 17 av 130 at \$8, 6 av 155 at \$8.10, 23 av 140 at \$8.25; to Wilson 10 av 138 at \$8.30. Belheimer sold Barlage 19 av 135 at \$8.25.

\$8.25

8.25. Groff sold Thompson 9 av 160 at \$8.50. Roe Com. Co. sold Mich. B. Co. 18 av 25 at \$8, 34 av 135 at \$8.25; to Sullvan . Co. 6 av 155 at \$8.50, 6 av 150 at \$8.50, av 190 at \$7; to McGuire 21 av 160 at

Roe Com. Co. sold Goose 11 sheep av 25 at \$4; to Thompson Bros. 17 do av 20 at \$4; to Mich. B. Co. 20 lambs av at \$7.75. 125 at 120 at

THE MICHIGAN FARMER.

80 at \$7.75. Belheimer sold Barlage 3 sheep av 135 at \$3.50, 30 lambs av 68 at \$7.75. Merritt sold Fitzpatrick Bros. 30 lambs av 70 at \$7, 5 sheep av 108 at \$4, 16 spring lambs av 55 at \$8. Haley & M. sold Sullivan P. Co. 1 buck weighing 170 at \$3, 2 spring lambs av 50 at \$9, 3 sheep av 125 at \$4, 6 lambs av 85 at \$8; to Newton B. Co. 3 sheep av 140 at \$4.25; to Hammond, S. & Co. 11 do av 90 at \$4.25; to Barlage 22 do av 90 at \$2.50. Bishon, B & H sold Double

at \$2.50. Bishop, B. & H. sold Breitenback Bros. 87 lambs av 67 at \$8, 4 sheep av 110 at \$3.50; to Sullivan P. Co. 3 do av 110 at \$4.50, 18 lambs av 80 at \$8.25; to Ham-mond, S. & Co. 4 sheep av 110 at \$3, 4 spring lambs av 65 at \$9; to Fitzpatrick Bros. 4 do av 60 at \$9, 17 do av 55 at \$9, 9 lambs av 80 at \$7, 23 do av 60 at \$7.50, 20 do av 55 at \$5.50, 19 sheep av 80 at \$4.50, 15 do av 120 at \$4.25, 51 mixed av 60 at \$5.25, 21 lambs av 69 at \$7.50, 10 spring lambs av 59 at \$8.75; to Eschrich 15 sheep av 65 at \$4. Hogs,

Hogs. Receipts, 3,303. Packers bidding \$9.50 @9.60 for all grades; nothing sold up to noon. Market closing 10c higher than last Thursday. Range of prices: Light to good butch-ers, \$9.50; pigs, \$9.50; light yorkers, \$9.50; stags ½ off. Bishop, B. & H. sold Parker, W. & Co. 1,055 av 190 at \$9.60, 503 av 170 at \$9.55. Roe Com. Co. sold Sullivan P. Co. 310 av 198 at \$9.60. Haley & M. sold same 304 av 200 at \$9.60.

\$9.60. at

Spicer & R. sold Hammond, S. & Co. 670 av 190 at \$9.55. Sundry shippers sold same 325 av 190 at \$9.50.

Ariday's Market. May 27, 1910. Cattle. Receipts, this week, 930; last week, 4.473. The run of cattle at the Michigan Central stock yards Friday was very light, but the few offering found a ready sale at prices full steady with those of Thursday for all grades. Milch cows and springers also were steady. We quote: Best steers and heifers, \$7; steers and heifers, 1,000 to 1,200; \$6@6.75; steers and heifers, 1000 to 1,200; \$6@6.75; steers and heifers, 1000 to 1,200; \$6@6.75; steers and heifers that are fat, 800 to 1,000, \$6@5.50; grass steers and heifers that are fat, 500 to 700, \$4@4.75; choice fat cows, \$5@5.50; good fat cows, \$4.50@ 4.75; common cows, \$3.50@3.75; canners, \$2.50@3; choice heavy bulls, \$4@5; stock bulls, \$3.50@4; choice feeding steers, 800 to 1,000, \$5@5.50; fair feeding steers, 800 to 1,000, \$4.50@5; choice stockers, 500 to 700, \$4.50@5; stock heifers, \$3.50@44; milkers, large, young, medium age, \$40@55; common milkers, \$25.50; si stock heifers, \$2.50@3, 4; eows av 870 at \$4.50 do av 946 at \$5.4 cows av 870 at \$4.50 do av 946 at \$5.4 cows av 870 at \$4.52; to Thompson Bros. 2 cows av 1,015 at \$4.50, 3 heifers av 753 at \$6.50; to Bresnahan 3 do av 506 at \$4.75; to Starrs 1 cow weighing \$60 at \$4.1 do weighing 1,10 at \$5; to Thompson Bros. 2 cows av 1,015 at \$4.50, 3 heifers av 753 at \$6.50; to Bresnahan 3 do av 506 at \$4.50; to Bresnahan 3 do av 506 at \$4.50; to Bresnahan 3 do av 506 at \$4.1 do weighing 50 at \$3, 3 steers av 1,000 at \$5.50; lost week,

Veal Calves.

Veal Calves. Receipts, this week, 1,550; last week, 1,686. The veal calf trade was dull at a decline of 25c per hundred from Thurs-day. We quote: Best grades, \$@8.15; others, \$4@7. Bishop, B. & H. sold Nagle P. Co. 22 av 130 at \$6; 9 av 155 at \$2.5; 2 av 125 at \$6.50, 6 av 120 at \$6.50, 3 av 140 at \$8, 7 av 125 at \$7, 30 av 155 at \$8.10 av 141 at \$8; to Brant 9 av 135 at \$7.35; to Ratt-kowsky 15 av 140 at \$8. Lucky sold Goose 17 av 135 at \$8.10. Sheep and Lambs.

Sheep and Lambs.

Sheep and Lambs. Receipts, this week, 3,317; last week, 2,696. The run of sheep and lambs was t very light and the quality common. The prices paid averaged 25c lower than on Thursday on all grades. Best lambs, \$8; fair to good lambs, \$7@ 1,50; light to common lambs, \$5@6; spring lambs, \$8@10; fair to good sheep, \$4.50@ 4.75; culls and common. \$2.50@3. Bishop, B. & H. sold Haise 36 lambs av 65 at \$7; to Sullivan P. Co. 23 do av 75 at \$6.50, 13 sheep av 80 at \$3.50, 3 do av 117 at \$3; to Mich. B. Co. 14 lambs av 67 at \$6.50; to Nagle P. Co. 39 do av 65 at \$6, 28 do av 80 at \$7, 45 do av 62 at \$6.50. Hogs.



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

Bronchitis.—Jersey cow coughs; when he walks any distance she wheezes. First she walks any distance she wheezes. First began coughing the early part of last win-ter. Our local Vet. says the trouble is in the bronchial tubes and he has been treat-ing her for the past 30 days, but she does not seem to improve much. She is in good condition and eats everything in the feed line that is put before her. When listening a rasping sort of sound is heard. Is there any danger from using her milk? J. H. M., Hope Mich.—Give cow a tea-spoonful of powdered lobelia, a teaspoon-ful of powdered oplum and a dessert-spoonful of muriate ammonia at a dose in feed three times a day. Also apply equal parts turpentine, aqua ammonia and sweet oil to lower portion of windpipe once a day. Navel Infection in Lambs. Second effects

Roe Com. Co. sold Sullivan P. Co. 310
v 198 at \$9.60.sweet oil to lower portion of windpipe
once a day.Haley & M. sold same 304 av 200 at
\$60.Navel Infection in Lambs.—Several of
my two-weeks-old lambs have become
lame. They are on good grass pasture
and sheltered at night when stormy. I
have been feeding ewes a mixture of sul-
phate of iron and salt, one part iron to 100
Sundry shippers sold same 325 av 190
Friday's Market.
May 27, 1910.Navel Infection in Lambs.—Several of
my two-weeks-old lambs have become
and sheltered at night when stormy. I
have been feeding ewes a mixture of sul-
phate of iron and salt, one part iron to 100
parts salt. Can this be injurious to the
lambs? Mrs. O. B. T., Davisburg, Mich.—
The lambs have become infected through
navel. Apply one part carbolic acid and
five parts vaseline once a day, but before
making the application, apply peroxide-
hydrogen.

The parts provides the second second

of kicking the side of stall and bruising the point of hock and poorly bedded horses very often bruise the cap on the bare floor. Mild Case of Stringhalt.—I have a young, spirited horse which lifts one foot higher than the other when walking; do not notice it so much when he trots. H. G. B., Standish, Mich.—Your horse suffers from stringhalt and as it is very slight he may get over it during the hot weath-er. The only remedy I have any confi-dence in and have obtained satisfactory results from, is a surgical operation, re-moving a section of a small tendon below hock joint. This is not a difficult opera-tion to perform; therefore, I suggest that you consult your veterinarian. The op-eration can be done without throwing the horse, if cocaine is used. Gastric Colk.—My 14-year-old horse had a sick spell and our veterinary diag-nosed the case as one of gastric colic. Ever since he has been sick his bowels have been active. I forgot to say he had considerable pain and I am somewhat in-clined to think that he urinates too of-ten. M. L. C., Maple City, Mich.—Your horse no doubt suffered from an attack of acute indigestion the result of food fer-mentation, or perhaps watering your horse too soon after feeding grain. This fre-quently washes the grain out of stomach into small intestines, which interferes with proper digestion of the food. Give him a tablespoonful of ginger, a table-spoonful of bicarbonate soda and two tablespoonfuls of powdered charcoal at a dose in feed three times a day; also give him a tablespoonful of salt once a day. Infectious Abortion.—Cow has aborted three different seasons in succession, each time when her calf was about had the seasons in succession each time when her calf was about had the seasons in succession each

day. Infectious Abortion.—Cow has aborted three different seasons in succession, each time when her calf was about half ma-tured. As this is a valuable cow I do not care to sell her to a butcher. Can I do anything to prevent her aborting again? Cow is still giving milk. H. R., Empire. Mich.—Infectious abortion in cattle is not easily gotten rid of, but by following the treatment prescribed it can be stamped out. I find that dairymen soon become indifferent about applying the treatment and soon discontinue it; therefore results must be unsatisfactory. Unless the geni-tal tract can be cleared of germs that are producing irritation, your cow will always abort; however, after two or three abor-tions cows generally carry the calf the full nine months. Give your cow 1 dr. beechwood creosote at a dose three timest a day, mixing it with food or give in wat-er as a drench. Also dissolve 1 dr. per-manganate potash in three quarts of tepid water and flush out vagina once a day through a rubber hose for not less than 30 days. There are other remedies that Infectious Abortion .- Cow has aborted Rose tasks of the state of the state st

(15) 591

(19) 591
as often as necessary to keep the parts slightly blistered.
Tow Coughs.—For past two months one of my cows has been cougning considerably. She is worse in morning than any other time of day. I have been giving her oil of turpentine, which apears to make her some better. Her appetite is good. My other cattle seem affected much the same way, only milder. C. H. F., Bellaire, Mich.—The same exciting cause has no doubt brought on a catarrhai affection in your cattle—perhaps a change from hot to cold in temperature is responsible for their trouble. Give a dessertspoonful of powdered locate and a taspoonful of powdered locate and a taspoonful of powdered locate and a taspoonful of the presenter will come fresh in about two months. G. F. Petoskey, Mich.—It is always dangerous to turn hungry cattle that have been poorly fallowed to run in the rye pasture, let them eat a reasonable amount, then take mout for they are apt to eat too much, and produce indigestion, resulting.



THE MICHIGAN FARMER.





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CONDUCTED BY COLON C. LILLIE. THE PROBABILITY OF OVER-PRO-DUCTION IN DAIRY PRODUCTS.

THE DA

The fact that dairy products have been higher priced the last few years than usual has led many to believe that this will stimulate production to such an extent that there will be an over-production, and consequently, a falling-off in This would probably be a natural price. result from increased prices did not other things enter into consideration which would tend to counteract. In the first place. I do not believe that dairy products are excessively high when compared with the prices of other products, and with the cost of production. It is a question as to whether butter at 30 cents per pound is any higher in proportion than many other things which the farmer sells than it was a few years ago when it sold at 18 to 20 cents at this time of year. The cost of production at the present time is considerably in excess of the cost of production a few years ago. The farmer not only has to pay his hired help larger wages, but he doesn't get as much done in a day. The farmer has had to shorten his number of hours in the day's work, and consequently the simply increased price of wages does not measure the total excessive cost of labor. Dairy farmers used to milk and do the chores after they had done a day's work in the field. Now the chores are considered a part of the day's work, consequently there is not so much field work done. This enhances the cost of production just on the same principle of manufacturing. The laboring man has demanded an eight-hour day. Now he doesn't do any more work in an hour when he works eight hours a day than he does in an hour when he works ten, but he demands the same wage. Consequently the products he produces must be sold for a higher price, and this increases their cost, and consequently enhances their value. Besides this, the feed which the farmer produces is much higher than it was and so I believe that, comparatively speaking, dairy products are not excessively nor abnormally high. Then again, since other products produced on the farm are selling for a higher price, people are more apt to produce these to sell than they were before, and consequently this would have a tendency to keep people from dairying rather than to go into dairying. Dairying is hard work. It is confining work. A great many farmers do not make an attempt of dairying simply on this account. Twenty years ago there was no profit made in raising wheat. It was selling then around 50c a bushel. Today it is selling around \$1.00 a bushel. Now there is more profit in wheat today at \$1.00 a bushel than there was then at 50c a bushel, even though wages are high. Consequently the farmer is more apt to raise more wheat today than he was then. It's the same with corn, it's the same with hay, in fact, it is the same with everything the farmer produces with the exception of potatoes the last year. Consequently the dairy business will be a gradual growth. Increased investments will be made slowly and I do not anticipate that the production will be increased to such an extent that it will a matter of fact, I do not believe that we need to look for very much lower prices for all kinds of dairy products, because out of dairying, rather than go into dairysary, they will be governed largely by the production.

NATIVE LAND.

tive home, is a large district bordering on quickly detect the points of resemblance, succession of elevations and depressions, small streams. The chief rivers are the for an Ayrshire. Doon) and the Garnock, Irvine, Girvin and Stincher. None of them are more formed by a strong admixture of Shortthan 35 miles long and would hardly be horns and Jerseys with the native cattle called rivers in America. The county is of the country. rich in valuable minerals, especially coal,

iron ore, and limestone. The climate is moist, but mild, and healthful. The soil along the coast is light and sandy, interspersed with deep loam. The most fertile districts are in the center where clay predominates. On the east side, facing the interior, are extensive moss and moor lands-a tract of open, barren, untilled land, sometimes marshy, but more or less elevated, and often overgrown with heather and (Calluna vulgaria), an as-

tringent plant. Burns wrote: "We'll sing Auld Corta's plains, and fells, Her moors red brown wi heather bells.'

The farms in Ayrshire are generally small, averaging less than 90 acres each. and the agriculture previous to 1809 was extremely primitive and inferior to other parts of Scotland. But since that period there has been a vast improvement, by extensive drainage, better tillage, and raising superior stock in greater numbers, thereby providing the manure to enrich the farms. More cows are kept in Ayrshire than any other county in Scotland. Excellent butter, and some famous cheeses are made. Among the interesting antiquities to be found in Ayrshire are the ruins of Furnberg Castle, the family seat of Robert Bruce. Near the mouth of Bonny Doon, in the small cottage where the lyric poet of Scotland, Robert Burns, was born, and where before he was sixteen years of age, composed some of his immortal songs. Here is the old Allowa kirk, the ruins of the church where his tipsy hero, Tam O'Shanter, saw the witches dancing, and holding their midnight revel as he was on his way home from the tavern where he had been drinking with his jolly companions, and near by the bridge over which he made his lucky escape from the mad pursuit of the witches, only losing the old mare's tail which was caught by one of his foremost pursuers: "Ae spring (of Maggie, his mare) brought

off her master hale But left behind her ain gray tail. "

Not far from here is the monument erected to Burns in 1825. Furnaces, ironworks, machine shops, coal mines and manufacturing establishments furnish an excellent home market for the agricultural and dairy products of the farmers of Ayrshire. Next in importance to the ability to raise good crops and dairy products is a nearby home market for their disposal.

The history of the Ayrshire cattle, like the history of savage tribes without a written language, is founded on tradition. There are no authentic records in existence to tell by whose patient labors, and painstaking efforts this excellent dairy breed was built up, and their milk-giving capacity developed. The old native breed of the country was rough, coarse, uncomely, resembling the height and breed of the present day.

Mr. Aytown, who wrote a treatise on the Dairy Husbandry of Ayrshire in 1826, describes them as a puny, unshapely race, not superior to those yet met with in the higher districts. They were mostly of a black color, marked with white on the face, the back and flanks. Few of the cows yielded more than six to eight quarts of milk in a day at the height of the milking season, or furnished when fat, more than 20 stone (280 lbs.) of dressed beef. In the language of the country, they were called "bokies" or "hawkies." It is stated that as early as 1750 the Earl of Marchmont brought from his estate in affect prices materially in the future. As Berwickshire a bull and several cows which he procured of the Bishop of Durham of the Teeswater Durham, or Shorthorn breed, then called the Dutch by unless the price stays up, people will go most English breeders, because they had a large admixture of the Dutch or Holstein ing, and since these products are neces- blood. It is also stated that others besides the Earl of Marchmont brought in foreign cattle resembling the same race. There is also a tradition that there was THE AYRSHIRE CATTLE AND THEIR an importation of cattle of the Alderney, or Jersey, breed, into Ayrshire, and the tradition has very strong proof of its ver-Among the most popular dairy breeds ity in the great similarity to be seen between the Jersevs and the Avrshires the others in excellence, are the Ayr- Were no such tradition in existence, the shires. The county of Ayrshire, their na- trained eye of the cattle breeder would the southwest coast of Scotland. Its and be ready to affirm that the blood of greatest length is 78 miles, and the aver- the one had been mingled with the blood age breadth 14 miles. The general aspect of the other, and that the proportion of of the country is undulating, presenting a Jersey blood was large, if it did not predominate. In the general resemblance of resembling the waves of the sea, and form, in color of skin, and shape of the having a great number of lakes and horns, a Jersey might easily be taken The cattle themselves Ayr and its tributaries (the Sugar and furnish the strongest proof possible that the present dairy breed of Ayrshire was

The modern cattle of Ayrshire are thus





Highest market prices, accurate weigh weekly settlement. We have several weekly settlement. We have several creameries, write for location of one nearest you, and receive full information. Will send an interesting booklet if you mention this paper. if you mention this paper. **RUD ELL CREAMERY** 41 So. Division St. Grand Rapids Michigan.

JUNE 4. 1910.

and the loins very broad and deep, which which appears about the eyes and on the dish brown mixed with more or less white. it is flesh colored. The limbs are slender, the neck is small, and the head free from the thigh technically called the "twist," quently drops much to the rump-a characteristic which exists likewise in the Alderney breed, and which, though it impairs the symmetry of the animal, is not regarded as inconsistent with the faculty of secreting milk. The udders are moderately large without being flacid. The cows are very gentle and hardy to the degree of bearing to subsist on ordinary food. They give a large quantity of milk in proportion to their size, and food consumed, and their milk is of excellent quality."

The Ayrshire cow, Alice Douglass, had a record of 4071/2 lbs. of milk in seven days. From February 10 to August 6, 1886, she gave 8,250 lbs. of milk. When four months in milk she made a record of 10 lbs. and 12 oz. of butter in seven days. J. W. INGHAM. Pennsylvania.

WATER SUPPLY IN PASTURE.

Cows need a constant supply of water. In the summer time when the days are warm and the amount of moisture perspired by the animals is large, there is a more urgent demand that water be convenient to the animals and abundant. The common practice of shutting the animals in the back pasture lot from early morning till milking time in the evening without a chance to get to water, is wrong. Either arrangements should be

only care required is to keep the pump packed and the mill oiled. Nothing, of course, surpasses springs for this purpose but these are only to the few. A running stream is excellent, but the practice of making the cows go to stagnant pools for water cannot be too severely condemned, both on account of the health of the animals and the wholesomeness of the milk. A. H.

Wayne Co.

FEEDING COWS ON PASTURE.

I wish to learn through your valuable paper about feeding cows. I have several cows that are going to be in fresh milk soon; they have all the grass to eat that they care for; also water. Now, I wish to know what else I could give them to produce the most possible milk and also, at the least cost. I presume they just need some mixture in their drinking, or what would you do? I will watch for reply in the Michigan Farmer. Presque Isle Co. M. B. It is a question of opinion whether it

It is a question of opinion whether it pays to feed cows that have good pasture any other feed or not, so far as profit is concerned. If you have a good pasture and an abundance of it, I don't believe that you will get pay for your grain as long as the pasture remains good. The cows will probably give a little more milk if they are fed a ration of grain in connection with this pasture, but I doubt if they give enough more so that you will other question to take into consideration, and that is that the residuary effect of Elma. Geneva experiment station. I think it was, made an experiment in this respect, and they found that, while at the time of feeding the cows did not give enough more milk to pay for the grain, yet those cows in the winter time produced enough more milk so they got pay for the grain from the residuary effects. The experiment was performed by taking a herd of cows and dividing them as nearly as possible and feeding half of them grain while conclude to feed a ration of grain, I think to adhere.

described by Prof. Lowe: "They stand in there is nothing better to feed in the the fourth, or fifth class of British breeds summer time upon grass than corn meal in respect to size; the horns are small, and bran mixed half and half by weight. and curved inward at the extremety like In the very flush of the pasture when the the Alderneys, the shoulders are light, grass is the most delicious, you may find that many of your cows will not eat grain. is a conformation most always accom- if you offer it to them, but after the first panying the property of yielding abund- flush of the pasture is over with, then I ant milk. The skin is moderately soft to think you will have no trouble in getting the touch, and of an average yellow tinge them to eat grain. If for any reason the pasture depreciates so that it does not mammae. The prevailing color is red-furnish a full ration, then there isn't any dish brown mixed with more or less white. question but what it will pay to supple-The muzzle is usually dark, though often ment this pasture with grain, but the advice is given simply with the understanding that there is an abundance of pascoarseness. The muscles of the inside of ture, that the cows can get a full ration of pasture. With many pastures, I might are usually thin, and the haunch fre- say with the average uasture, this is not so. On the average pasture I am positive that it will pay any dairyman to feed a grain ration at least once a day during the entire pasturing season, and after the first of July, after the first flush of the pasture is over with, it will not only pay pay to feed a grain ration, but it will also pay to supplement it with some coarse fodder, like peas and oats, or early corn, or green clover, or clover hay.

A CEMENT SILO.

I have been thinking of building a silo, and will now give my plan and wish to know if it is practicable or feasible. I believe the foundations of silos are gen-erally made of concrete. If concrete makes a good foundation why not build the whole silo of that material? A barrel of cement mixed with five of sand to one part cement will make 17 cubic feet of concrete. If a silo is 11 feet in the clear and the wall six inches thick, each barrel of cement will build one foot in height of the wall. I would reinforce the concrete with hoops made of No. 8 or 9 wire, placed every six inches, where the doors did not interfere, and fasten to door frames at every six inches, where the doors did not interfere, and fasten to door frames at those points.

Cost of Material.

wrong. Either arrangements should be made so the cows may come to the barns for water or, better yet, a supply should be had in the pasture lot. A windmill can be easily and cheaply installed over a sufficiently set raise the forms and fill again. I have not allowed for the lumber to build scaffold. That will be good after the job is finished. I have the best of sund and gravel. The cost of work to flow pipe properly arranged to carry away excess water, the mill may be left in gear constantly and will usually keep the ani-mals well supplied with fresh water. The only care required is to keep the pump marked and the mill oiled. Nothing of Total\$54.00

I think that Mr. Dunning has figured out a practical silo. I see no objection to it. One thing he has forgotten, and that is that he will have to plaster this grout wall on the inside with a coat of rich cement mortar, made two parts fine sharp sand to one of cement, or else he will have some moldy silage around the outside. A grout wall made in this way will be rough so that the silage will not settle well. Not only this, but it will be porous and enough air will enter so that he will have spoiled silage next to the wall. To obviate this it should be plastered with this rich cement mortar. Then he will have a good, serviceable silo. He speaks about using No. 9 wire as a hoop, but I think it best to reinforce the wall with No. 9 wire. I would not put them on the outside but lay them right in the concrete as it is being built. Then your wires will be absolutely protected against the weath-er and be out of the way. Otherwise I see no unfavorable criticism for his plan of silo construction. It will certainly be a durable silo and I think he has figured safely within the cost, under his conditions.

A PROMISING ANIMAL.

We have started a year's authenticated get pay for your grain, but there is an- test of Angela of Bleak House 233250, a daughter of Channel King out of Anna She finished her first month on feeding this grain upon the animals. The April 30, 1910, with 1434.4375 lbs. of milk to her credit, testing 5.413 per cent fat thus making 77.6461 lbs. fat during the first month of 30 days, which is 1.2798 lbs. more fat than Jacoba Irene made in her first month of 31 days. The two days she was tested by the Cornell University man, Angela made 5.332 lbs, fat.

New York. H. S. GAIL.

Dust catches in the hair of those parts of the cow approximate to the teats and on pasture, and feeding the other half gets into the milk when it is being drawn. none. Now the cows that were fed the During the shedding period the dampengrain did better the next winter than ing of the udder with a moist cloth bethose that were not fed grain. If you do fore milking will cause the dust and dirt

JUNK PILE MOUNTAIN

THE MICHIGAN FARMER.

OF VERY EXPENSIVE CREAM SEPARATOR EXPERIENCE



(A sample pile of scrapped competitive separator bowls-the frames being broken up in the field to save freight on same).

During the year 1909 more than 10,000 enlightened and disgusted American users of poor or wornout competitive makes of separators threw them aside and replaced them with new

DE LAVAL CREAM SEPARATORS

on top of 8,500 having done so in 1908, 7,000 in 1907 and 5,000 a year for several years before, or at least 50,000 within ten years.

If it were possible to put these 50,000 machines into one huge "junk pile", as they have in fact gone into a thousand "junk , it would make a veritable mountain of cream separator piles" experience, as impressive as Pikes Peak and representative of as much costly acquired separator experience as though it were a great mine of gold or silver.

These 50,000 "near" and "just as good" cream separators cast aside to be replaced with De Laval machines within ten years, and so many of them within a couple of years, cost their users at least three and one-half millions of dollars in the first place and probably wasted three times that much in quantity and quality of product, excessive repairs and excessive time required to put the milk through them while they were used, or a total of at least fifteen millions of dollars, and more likely twenty-five millions.

What has happened in America in this way has in the same time been doubled throughout the rest of the world, so that the total aggregates twice as much, or perhaps fifty millions of dollars. And worse still, this accounts only for those users who have recognized the facts and remedied them. There are thousands more users of inferior separators who have yet to do so, and unfortunately some yet embarking anew on this expensive separator experience of their own.

These figures are monumental, but they deal with a problem of enormous importance to everyone who has cream to separate from milk, which the average man can better appreciate put in this collective way than he can when applied to himself alone though it means exactly the same thing one way or the other.

The facts are all capable of proof to the man who cares to have them proved and who doesn't want to contribute at his own expense to this enormous and ever-increasing "junk pile" mountain of cream separator experience, or, better still, to the man who has been doing so and thinks it about time to stop.

To such owners we would say that the De Laval Company will this year continue its "trade allowances" for these old machines, because of the opportunity such exchanges afford in an educational way for the most practical illustration possible of the difference between good and poor separators, and thus putting a stop to the sale of others like them in the same neighborhood.

Any desired "trade allowance" information may always be had of the nearest De Laval local agent or of the Company directly.



SPRAYING NOTES.

The first spraying after blossoming will be finished by the time this reaches the reader and we will have begun to go over the trees again. We are using lime-sulphur and arsenate of lead on part of the orchards and Bordeaux and arsenate of lead on the remainder. The former is rather in an experimental stage, but it has the earmarks of the coming 'spray. The results of this season's spraying will give something more definite than we can give at this time regarding its use in Michigan. There are several objections to its use as a substitute for Bordeaux: It is more caustic, causing a smarting 1. when it enters the eye, and creating a slight irritation on the skin. 2. When combined with arsenate of lead it makes a somewhat thick material which precipitates quite easily and tends to clog screens, more so than the Bordeaux mixture. (This refers to the commercial limesulphur solution used 11/2 gallons to 50 of water). 3. It is slightly more expensive, though the difference is not worth considering if it proves to be a good fungicide and does not russet tender varieties of fruit.

Its advantages over Bodreaux mixture 1. It is more easily prepared. are: (I refer to the commercial product). 2. There is less grit to cut out the pump than where Bordeaux mixture is used When there is a good breeze and one is spraying from one side only there is little difference in the application, but if the breeze is so light as to be variable so it will blow the spray back upon the operator it is uncomfortable to use it, and the work will not be as thoroughly done as where Bordeaux is used and one does not mind having some blown in one's face. However, if the tree is sprayed with the wind and slightly sideways to it, and then sprayed again when the wind has changed enough to draw through the foliage in the oposite direction, a good job can be done using any kind of spray and none need be gotten on the team or operator. Unless the day is very quiet so we can throw the spray against the wind we do not attempt to finish the large trees at but get them twice with a time, one change of wind and call it one spraying. All our orchards were sprayed in this way before blossoming, and we are doing the same this time. More material will be used, but we are then sure of a pretty thorough job, and the work is more agree-We do not wait for the wind to able. change but get our trees well sprayed with a south or west wind, and when we get a north or east one hustle over the other side. Thus far this season the wind has changed very conveniently.

Our first spraying with lime sulphur, which should have been given before the tions for the production of celery. I bebuds opened was delayed by a delay in getting the materials, and the buds were opened by the warm March weather so this spraying was not completed until the blossoms began to open. We used var-ious strengths from two to five gallons to 50 of water. We are observing these trees and will resrve a report on the re-sults until we are sure how they will work out.

S. B. HARTMAN. Calhoun Co.

TWIGS COVERED WITH LECANIUM SCALES.

to us a twig affected with a soft scale. Not being able to identify the pest it was line fall below three feet during the sum-sent to Professor R. H. Pettit, who re- mer, or the crop will suffer. The plants plies in the following manner:

mens arrived this morning. I am very germinate slowly you perhaps would have sorry that the species is not determinable. to purchase them for this year's crop, as sorry that the species is not determinable. To purchase them for this year's crop, as full full, and are beginning to show full bids in plenty. It is a Lecanium, or soft scale, all right, they need to be started before this for fruit buds in plenty. Strawberries are likely to have a rather taken a special interest for a long time selected. Have ground clean of rubbish short season, as most of the early blosfew species well marked enough to be is done. Cut back the plants to tworecognizable. Then, too, the host is not thirds or even one-half their size when blossoms and late varieties. Those plants given and the specimens themselves are transferring to the field so the roots may that were held back by a mulch and did either past the point in their development be able to keep up the supply of water not blossom as early as others promise a when the structure could be made out or until the plants are established. Make fair crop as they had blossomed but little else they are diseased or parasitized. rows from two to three feet apart where when the frosts came. We have picked There are five females which have all bleaching is to be done by boards, and gone into the final stage and the rest of not less than three and one-half feet a southern exposure. These blossomed the females are either diseased or para- where soil is to be used. Set plants from before the cold weather and are two or sitized. This is one of the most difficult six to twelve inches apart in the rows, three weeks ahead of any other berries groups in the entire insect kingdom and Begin cultivation at once and keep it up most of the determinations of species till time for banking or placing boards. done up to date has been guess work. for bleaching. We are of the opinion that condition I can not remember and one I The structure of the Lecaniums is so much of the low lands in your county simple and they all look so much alike could be used for celery growing if there that the classification up to the present is an abundance of water and plant food. short, as it was last year. time is really very unsatisfactory. Mr. Should the land prove to be too acid from

Sanders, of the Bureau of Entomology, excessive fermentation of vegetable matto classify the American Lecaniums. He this. knows a few of them now but only a small proportion of the entire number. It is a Lecanium and related to the New York plum scale in a way, perhaps as form.

I am very sorry that I cannot give you place it in your files. Yours resptctfully,

R. H. PETTIT."

THE MICHIGAN FARMER.

Fruit trees are often attacked by different species of soft scale. Regarding their which is usually the case with freezes. treatment the following from Professor For our locality, including a part He is speaking of plum twigs that were badly infested:

year by taking a small paint brush and painting the scale on the infested although the blossoms remained on the branches. Use ordinary soap and make it as thick weather was cool nearly all of the blosas house paint. I should not use oil on soming period, with several quite hard plum trees, especially at this time of year, as it might injure or destroy them. for a good crop, barring an excessive June It is now too late to spray with anything drop. In our orchards trees that did not strong enough to kill the scale without bear a crop last season promise a full damaging leaf and fruit. While painting crop this year, while trees that bore a trees will be a slow process, it will be medium crop last year have the same sure to kill the pest and will doubtless this year, and those that bore a heavy prove to be the cheapest in the end.

a very difficult insect to kill by spraying find much difference in the size of the and is not always held in check by any of the ordinary spray liquids for scale in-This is why I would especially sects. recommend the application of strong insecticide, at any time during the year, by applying it with a brush, thoroughly, on the infested parts of the bark, in such a way as to cover the pests. Doubtless any of the contact insecticides, if used strong enough, will do the work, and practically all, excepting the oils, will be safe in being free from injury to the trees when applied as described above."

GROWING CELERY.

I want to ask you for information about celery growing and cultivation and most suitable land to grow it on. I tried to get information from the state and the U. S. Department of Agriculture, but could not get any information from either place. I have heard of its being grown around Saginaw with good success the last few years. I understand they are not growing as much around Kalamazoo as they used to. Is this correct and if so what is the reason? I have understood that it grows best on muck soil and if so we ought to be able to grow it for there is plenty of good muck land around here.

Leelanau Co. G. M. L. The communications of our subscriber to the state and federal authorities must have miscarried, for they are always prompt and ready to reply to queries. The bottom and marsh lands about Saginaw are proving to be very successful localieve it to be general information that the annual output of celery from the bottom lands about Kalamazoo for the past few years exceeds that of all former periods. There are instances where fields have not been properly cared for and fertilized, that the producing power is greatly reduced, but these instances are very rare where good judgment has been used in handling the land. The requirements for growing this crop include a cool, rich and very moist soil. The important thing is to have an abundance of water. For this reason the commercial growing of celery is largely confined to low lands or to Mr. Gibbs, of Ottawa county, forwarded plots supplied with conveniences for irrigation. In no instance should the water ies in the following manner: are usually started in seed beds and "Dear Sir:—Your letter with the speci- transplanted in the field. As the seeds

has spent five years exclusively in trying ter an application of lime will overcome

THE 1910 FRUIT CROP.

There has been much comment as to near to that as any other well known the condition of fruits and the prospect for a crop this season by various writers, especially by reporters for newspapers. any more definite information. I enclose These reports are conflicting, but in the the letter from Mr. Gibbs, that you may main are pessimistic. Visitors from different parts of this state and others, give various reports, insomuch as to lead me to believe that there is much variation in the damage done in different localities,

For our locality, including a part of Surface, of Pennsylvania, may be helpful. Calhoun, Kalamazoo, St. Joseph and Branch counties, my observations would lead me to believe the present prospects "I should treat this pest at this time of for fruit about as follows:

Apple trees mostly blossomed full, and with a strong soap solution. trees much longer than usual, and the frosts included, we still have a prospect crop last year, with the exception of "The Lecanium of peach and plum is Spies, blossom very little this season. We different varieties at this time. On most of the varieties the main apple in the cluster is about the size of the end of **a** lead pencil, about right for the first spray after blossoming, while on some varieties they are nearly as large as hickory nuts. As a rule, we have not noticed as much difference as this. It is probably due to the early varieties having got through blossoming before the cold weather, and these apples grew during the cold spell while those that were in blossom but not fully fertilized were at a standstill. This makes a mixed orchard at a disadvantage for spraying.

Pears are likely to be a good crop on most trees that have come under my observation, most of them being well loaded with young pears which seem to have stood the frost well. A few varieties have few on, due more to its being an off year with these trees than to the season, think.

Peaches have been injured but the crop is not all ruined as yet. A few varieties in our orchard still have enough for more than a crop, but the majority give promise of but a light crop, and some varieties, the later ones in our orchards, have almost no fruit remaining on them. Reports from some localities state that the peach crop is ruined, but I have not heard authoritative reports from much of the fruit belt.

Plums suffered from the recent frosts more than any other tree fruit, many of them being frosted so that they have turned dark and shriveled up on the trees. Some trees seem to have escaped serious injury, and some fruits or branches that were protected are still uninjured, but as a whole, I believe the plum crop will be very light in this locality.

Cherries suffered also, not so much from the late frosts as from the cold wet weather at blossoming time which blasted the blossoms. Some of our trees that blossomed full have hardly enough left on to feed a robin, while others still hold a partial crop. I do not believe we need expect a large crop of cherries this season.

Grapes were frozen brown, both leaf and blossom clusters. New leaf buds are starting, but it is doubtful if there will be much fruit. However, not being a grape grower I will not predict.

Raspberries and blackberries appear uninjured, and are beginning to show

interest for a long time selected. Have ground clean of rubbin some were killed, yet, barring further there are comparatively and in perfect tilth before transplanting some were killed, yet, barring further marked enough to be is done. Cut back the plants to two- frosts there will be quite a crop of late a few ripe Excelsiors on a side hill with in the patch. I have heard many reports that there would be no strawberires, do not believe will ever happen, however, the crop may be light and the season S. B. H.

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RAISING CHICKS BY HAND WITHOUT

BROODER.

Yes, it is easily done, at any time after the ground quits freezing. I find it much easier to bring a large percentage of tion is not used. If I could do just as chicks to maturity in this way than by much work without one I would not wear the old method of allowing them to run a veil. It makes a person sweat more with the hens, even though the old biddy readily as the air circulation is hindered. may have hatched them. In the absence Then it is not so easy to see things of an incubator, it is best, if one wishes through veiling. to try raising chicks by hand, to set as many hens at one time, or within a day tion used by the box-hive bee-keeper is or two, as possible, since chicks of different ages must be kept separate; other- the face in any clumsy fashion, but I wise the older ones will crowd and rob the would not use this kind. It is hard to smaller of their share of the food and also smother them at night.

It will be necessary, of course, to keep Another veil is made from cotton tulle. the chicks confined. On a small scale I This makes a real nice veil but it is not found that a 10-rod roll of fine-mesh as easy to see through as silk veiling. chicken netting (one-inch mesh is about The cotton tulle is also made with a silk right) will enclose two yards each 15 ft. front. The veil is made in the form of a wide by 30 ft. long, without cutting the bag open at the top and bottom. The top wire. I find the 24 or 30-in. height best, is gathered by a rubber cord and it is to as one may easily step over it, thus doing be worn slipped over a hat. The lower away with gates. Each of these yards may be divided again with a fence or it is quite a bother to put it over and to partition of wide or narrow boards, thus take it off the hat every time it is used giving four pens or yards each 15 ft. square, chicks nicely while they are small. When I call my "veil-hat." I like this kind of they get larger they may be allowed to veil, but it tears very easily when "shin-run where they wish, or be moved into ning" up trees after swarms. However, other and cheaper yards. For coops, any it lasts just as well as any other kind warm, water-tight little coop or box will made of cotton or like material. do, being sure to set it on a board floor, both for warmth and for convenience in climb trees or work around shrubs the cleaning. Do not forget that part. If ordinary veil is liable to get caught. In cleaned every morning a very few minutes will be required.

In raising the chicks by hand you will head and face so that cross bees have not have no trouble with lice, nor losses from so much chance to sting through. Cut a old hens fighting and stepping on the piece of wirecloth 11 inches wide and 2 chicks. Should the weather turn unexpectedly cold and you feel a little wor- sew together with fine wire. For the top ried at night, or even through the day, or head covering sew in a piece of muslin set a jug of hot water in the center of of about the same size as the wirecloth. each small coop. Be sure to place the drawing it together in the form of a circle jug (if you don't happen to have a jug with the tucks running toward the cen handy a tin syrup pail is nearly as good), ter. Also sew a piece of same material in the center of the coop so there will be onto the other end, or the bottom of the space all around it; otherwise they may trample each other in trying to get the best place.

When hatching with hens I take the chicks, as fast as they become dry, and if the sun's heat is felt too much. cover them well with an old blanket in a

with no bad results. Be sure to cleanse or renew the nest material before doing A MICHIGAN FARMER. so, however.

BEE VEILS AND GLOVES.

Though one can work with bees without a veil at times, it hardly is advisable to dispense with one on "general principles." One has to work too slowly if face protec-

Perhaps the most common face proteca piece of mosquito netting tied around see through and tears easily, too. It has only cheapness to recommend it.

ends are pulled under the suspenders. As I bought a light summer hat and leave Each pen will accommodate 50 the veil on it throughout the season. This

As already said, when it is necessary to this respect a wirecloth veil is ahead. The wirecloth will also stay away from the ft. 10 in. long. Roll it into a cylinder and This cloth should cylinder. be long enough to hang down about 15 inches. This kind of veil is worn without a hat. A small cap can be worn under it, though, Wirecloth veils to fit over a hat have



A Neat, Comfortable and Effective Veil Makes the Work Seem Easier. box or basket. They won't peep if kept also been made. In this case the wirewarm, but it is surprising how much cloth cylinder has to be made as large cover they will require for the first 36 as the brim of the hat over which it is to hours. After that begin by feeding spar- be worn, and the top cloth has to be ingly, then increase to all they will eat open enough to fit over the crown. up clean. Keep the yards well supplied In making yeils, don't use galva with fine oyster shell and crushed egg wirecloth, nor white veiling. They are shell.

Another point in favor of hand-raising ing. I like the wirecloth veils for durawhere one has only a few hens is that as bility and effectiveness in preventing soon as the chickens are hatched the hens stings, but have one objection to themmay be shut up for a few days and, if I find it harder to see through wirecloth well fed, they will soon be laying, where- than through silk velling. as if left with the chicks they will be idle I don't use protection for the hands four to six weeks or longer. Far be it now, but did when I began bee-keeping, from me to underestimate the value of Gloves are very hot and inconvenient in good brooders, for well I know they are warm weather, but, of course, the timid very valuable. But those who wish to bee-keeper will have to stand it. Make try raising chickens without going to the gloves without fingers, like ladies' much expense will find the way described summer mitts, and long enough to reach very satisfactory. With half a dozen hens back several inches over the sleeves. Use one may easily raise a nice flock. By tak- cotton cloth of white color, and soak ing chicks away as soon as hatched, and them well in linseed oil. The bees can being careful to give the hen good care, not sting through such gloves easily. you may re-set the hen almost at once

not as easy to see through as black veil-

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