VOL. CXXXVII. No. 2. Whole Number 3555.

DETROIT, MICH., SATURDAY, JULY 8, 1911.

\$1.00 A YEAR. \$2.75 FIVE YEARS.

### Pastures, Catch Crops and UR topic for special discussion in precaution are everywhere found to re- treading of stock when it is wet in the

farms throughout the country, as is the dency is in that direction, and its trend cows is a serious one. While it is now too late in the season to avoid the pres- production of live stock as well as dairy selves, and that such plant food as is ent condition, where a shortage of pasture now exists, it is the best possible time to study the pasture problem in all its phases since, as above noted, it is the ason of the year above all others when the importance of that problem is most fully appreciated by the average farmer.

In the consideration of this important problem, our attention should first be directed toward solving the difficult point as to how far we should depend upon pastures for the summer maintenance of the live stock kept upon the farm. In the writer's opinion the farmer of the future will depend upon pastures far less than the average farmer of the present does, and for several reasons. The first of reasons is that a given amount of land will not maintain nearly as much stock when used as pasture as it will when forage crops are grown upon it for soiling purposes or for the silo, hence it will come to be considered poor economy to keep sufficient land in pasture to carry the stock kept on the farm during the entire summer. In this connection it is well to consider the fact that pastures are not a wholly dependable source of summer feed, since they are quickly affected by dry weather, and even in a normal season there will be flush feed in the are to be secured with the live stock. The

July deals with a problem, the sort to soiling as a means of keeping up spring of the year, it dries out and bakes the ground of all covering. A mulch up-importance of which is better ap- the milk flow, and thus the income from the more readily later in the season. This on the surface of the soil, be it ever so pastures are now unusually poor for this crops than ever before, although soiling the physical condition of the soil is furdrought of last year and the untimely dry has not yet become common except with to the scorching midsummer sun. When, weather of last spring, and upon many dairy farmers. But the prevailing ten- in connection with this injurious effect, we consider that much of the essential ing the stock in good condition and secur- more intensive agriculture is developed pasture grass is consumed in the procing a good growth upon the young ani- in our country, live stock owners will de- esses of animal digestion, aside from that mals or profitable production from the pend less upon pasture and more upon which is represented in the growth of the supplementary feeding in the economic bones and muscles of the animals them-



Drawing Wheat on the Farm of S. B. Hartman, of Calhoun Co. 'See page 22).

although products, pastures will. course, always remain a necessary factor pings from the stock is bunched under cattle breeding and feeding farms, i. e.

that as soil management is developed in a pasture field must come from the care, and supplementary feeding throughseason there will be hush reed in the that as son management is developed in a pastate like the plant food which it out practically the entire season, with summer which necessitates a degree of it will become a generally recognized already contains available through the little and preferably no pasturing of the supplementary feeding if the best results principle that the pasturing of arable fields as now practiced is not conducive are not favorable in the average pasture The present scarcity and comparatively dairy farmers as a class have come to to the conservation or increase of their field for these processes to operate with high price of farm labor will prove a facappreciate this fact more quickly and fertility. Notwithstanding the fact that any degree of rapidity. Nature, in her tor in delaying this evolution, but in time more fully than any other class of live the opinion is quite generally held by slow but sure processes of soil building stock farmers, since they have a daily practical farmers that the pasturing of and renovating, keeps the surface pro-demonstration of the effect of good feed land with live stock is one of the best tected in some manner at all times. The erage farm in the more highly developed or dried up pastures on the profits of available means of restoring its lost fer- plants that grow up go back on the portions of the state at least. their business, and more dairymen an- tility, this opinion is neither in accord ground as a mulch, and when trees ocnually plan on putting up enough silage with scientific principles, nor demonstratto provide for supplementary summer ed by results in actual practice. Where its surface to form vegetable mold. For adaptable, since sheep will not do as well

of returned to the soil in the form of drop-

preciated by the average farmer at this their dairy berds. Other classes of live tendency is increased by the close graz- light, has a beneficial effect. Aside from season of the year than any other. Over stock producers are also more prone to ing which is generally practiced during preventing the evaporation of the soil a considerable section of the state the provide supplementary summer pasture the midsummer shortage of forage, and moisture to a considerable degree, it eason of the year, owing to the severe or the supplementary feeding of silage ther affected by exposure without cover soil, probably through the more favorable seems to promote the fertility of the conditions which it affords for the multiplication and work of beneficial soil baccase each year, the problem of maintain- is sufficiently strong to indicate that as elements of plant food contained in the thriftily the grass grows up through a Every farmer has noticed how small pile of brush, even on an old sod, yet there can be no actual addition of plant food to the soil by this means which would produce such prompt results. The protection to the soil simply aids nature in her mysterious processes which the inert plant food in the soil is made available for the growing grass. A thin application of straw will produce similar results, and where potato vines are left on the ground over winter in rows as the diggers have thrown them aside and raked up and removed in the spring, a difference can be seen in the thrifty manner in which the oats or other spring grain starts up and grows on the protected spots. Even a board laid upon the surface of the ground will produce noticeable results in the thrift of the grass about it and under it when it is removed after a time. Thus an old pasture field must have an occasional application of stable manure, or have left on it some covering of grass and be given an occasional dressing of commercial fer-tilizer if it is to be kept up to a maximum production of forage, and if the fertility of the soil itself is to be conserved and improved. This, in the writer's opinion, will be the ultimate solution of the pasture problem on most dairy farms and to the summer maintenance of all kinds the shade trees rather than scattered a permanent pasture of moderate extent evenly over the field, it is plainly evident which is kept up to a high standard of Another reason for the above opinion is that any gain in the fertility of the soil production by proper fertilization and processes of nature. But the conditions fields devoted to the regular crop rotation. we believe this plan will be the rule,

In the case of the farmer who keeps cupy the land the leaves are dropped to sheep this plan will not be as generally feed, while those who do not take this the land is poached and packed by the best results pastures should not be grazed when pastured year after year in a per-



The Farmstead at Pleasant View Stock Farm, Hillsdale County, Mich. Home of Mr. and Mrs. I. F. Eversole.

with sheep the need of care in too close labor involved as any farm crop. To much better than oats straw, or should grazing is more pressing than with cat- substantiate this statement I will give be, because in oat straw the plant has tle, since they are closer grazers. With the cost of growing the two wheat crops been allowed to ripen the seed and very sheep the need of supplementary forage on this nine-acre field, and the returns much of the food nutrients of the plant crops is imperative, and here rye and from same. The 1910 crop was grown, have gone into the seed and when the rape and perhaps turnips and other suc- one-half following corn, and one-half fol- plant ripens the cellulouse portions of culent forage crops should be used to lowing crops of hay and clover seed cut woody fiber become indigestible in the help out and give the fields pastured a that season. This was on account of straw. Now the rye hay plant cut before rest during the midsummer season and in changing fences, thus throwing parts of it matures and cured as hay would be the late fall. And in time we believe that two fields together. The part following much more digestible for this reason than hurdling the sheep over the supplement- corn is on lighter soil and was not as oat straw, where the plant had been ary pasture crops, if not soiling them in heavy as that following the clover, which allowed to ripen seed. a barn lot, will be more generally prac- was also true of the following crop. ticed, as it now is in many of the countries of the old world. There is room for and need of a serious study of this problem of supplementary forage crops both for soiling purposes and as a pasture for the live stock maintained on the farm every Michigan Farmer reader, no forgetting the hogs, on which a greater saving in cost of production can be made by this means than with any other class of live stock maintained on the farm Space will not permit extended commen on the crops which may be best used for this purpose, nor would such a discussion be profitable, since their adaptability and the purpose for which they are required is such a variable factor in individua cases, but the purpose of this article wil be served if the reader is impressed with the fact that this is a productive field for thought and experimentation.

Catch crops and cover crops serve a double purpose in conserving soil fertility. They appropriate and hold in an available from the soluble plant food in the surface soil and afford it needed protection while it is lying fallow over winter. They also prevent loss by soil erosion on rolling ground and furnish some vegetable matter to be converted into humus when plowed down the following year. The nearer we can follow nature's plan of keeping something growing on the land at all times, the more nearly we will have solved the problem of conserving soil fertility, having due regard, of course, for the needs of the soil for frequent additions of vegetable matter to maintain its ical condition, which is a great factor in soil fertility. Rye sown as early as humus and promote a desirable mechanpossible after the late crops are harvested, or even rape, or better yet some legume sown in the standing corn at the last cultivation when moisture conditions are right, or, in fact, anything that will take up a portion of the available plant food in the soil and add to it some vegetable matter, will serve this purpose admirably, and often will furnish some supplementary feed for the live stock as In fact, catch crops and cover crops may be made to perform the same service for the cultivated fields that a cover of grass left on the pasture field or a coat of coarse manure or straw applied to it do for the pasture, and, in the writer's opinion, might be made cheap valuable agents in conserving soil fertility in many cases upon the average farm.

In conclusion, the pasture grass should be made a cover crop to the extent of affording a degree of protection to the ground at seasons when such protection is needed and to conserve the stand of grass, while catch crops and cover crops should be made to perform the same service to the fallow fields, and to provide supplementary pasture for the stock as well.

## THE WHEAT CROP.

if the ground is naturally fertile and manure is applied liberally every two years, and a good clover sod plowed down for corn after cutting one crop of clover, that this rotation can be followed withcorn with wheat we lose no time by periods of non-cropping and do not leave We have also found it to be a cash crop kernels formed you have saved all of the

n	lows:
S	One-half cost of 18 loads manure\$ 4.50
,	One-third cost of manure hauled the
e	previous year 7.32
n	Plowing and floating east end 8.25
t	Disking and harrowing 7.00
	Drilling 2.75
r	Thirteen bu. seed wheat, cleaned,
e	at \$1 13.00
S	Harvesting 9.78
13	Twine, 28 lbs. at 8½c per lb 2.38
	Hauling 13.25
t	Threshing 276 bu. at 4c 11.04
r	Additional labor in threshing, and
n	coal 2.50
d	\$81.74
1	270 bu. wheat sold, at \$1.01\$272.70
1	210 bu. wheat soid, at \$1.01\$212.10
1	Net profit\$190.90
	Net profit per acre 21.23
2 .	Por State of the S

The same season another field of 91/4 acres, the crop following wheat after corn, yielded 380 bushels at a cost of \$147.52, giving a net profit of \$232.48, or \$25.13 per acre. In these accounts no charge has been made for tools used, except binder, and taxes and interest have not yet been considered. I note also that the cost of marketing has not been added, but this is small, as we are within ten rods of the elevator. I think the itemized account of the last mentioned field has been given previously in the Michigan Farmer. The cost of the second crop on the field first mentioned fol-

12							
	1910	Crop	of	Wreat,	Nine	Acres.	
-						0.1	

-	Flowing	
	Plow points	.70
S	Harrowing, three times with com-	
-		6.75
	Dillection harrow	
r	Drilling	2.25
S	Fifteen bu. seed wheat at \$1.05	15.75
3	Cleaning	.50
-		
		10.00
е	Use of binder	5.00
9	Use of binder	2.28
21	Hauling to barn	15.00
3	Threshing 280 bu. at 4c	11 20
1		
	Additional labor in threshing	
t	Coal	1.00
	Coal One-sixth of manure applied two	
	rrange hafana	3.60
	One-third of manure applied pre-	
3	One think of memory abbreau bee	4.50
2	vious your	
3	Marketing wheat	4.50
	Total cost of crop	\$98 38
9	280 bu. wheat at 93c\$	260 40
	200 bu. wheat at 930	200.10
L		100.00
1	Net profit\$	162.02

Net profit per acre The part of the field shown in the photograph is the east end where the 1909 crop of wheat followed a clover sod which was plowed after cutting the June clover for hay, two tons per acre, and taking second crop for clover seed, one bushel per acre. This made the plowing rather late, but we got the wheat in on the 17th of September.

The illustration shows the barns in the background. An elevator shows over the shed at the right, and the village lies beyond. The residence is obscured by the trees at the right of the barn.

S. B. HARTMAN. Calhoun Co.

## RYE HAY.

The illustration on the first page shows a view taken in one of our fields while hauling wheat last season. This was the second successive crop of wheat grown on this field. In 1909 we threshed 276 bushels from this field of nine acres, following a corn crop, or 30% bushels per acre. Last year, 1910, we threshed 280 bushels, or 31 bushels per acre. The field was seeded with the last crop, but the drought last summer and dry spring rendered one-fourth of it so light that the drought last summer and dry spring light order, and on those places the peas rendered one-fourth of it so light that are very small and of a sickly yellow in corporation for illizers are slow acting. Such the place of the peas and the remaining three-fourths we have cut the remaining three-fourths we have cut that are a failure. What is the peas and the nitrogen would be given up early in oats are a failure. What is the best plan to follow in curing them; mow and leave in windrows or cock them up and cure that way?

With the exception of nitrate of soda, are slow acting. Such a fertilizer would be ideal for grain as the nitrogen would be given up early in the year while the leaf growth is prominent, while the other elements would be come available later in the season and the proposition of nitrate of soda, are slow acting. Such a fertilizer would be ideal for grain as the nitrogen would be given up early in the year while the leaf growth is prominent, while the other elements would be come available later in the season and a fertilizer would be ideal for grain as the nitrogen would be given up early in the exception of nitrate of soda, are slow acting. Such as fertilizer are slow acting. Such as fertilizers are slow actin van Buren Co. R. H.

Rye hay cut at the stage of development as indicated by W. E. C., will make like potatoes, it is desirable to have the a very good food for all kinds of stock, nitrogen spread over a longer growing Rye is a rank growing plant and has period and a combination of nitrate of out detriment to the soil. By following quite a rank flavor when consumed as a soda with dried blood, together with a soiling crop or in a green condition. How- high per cent of potash and phosphate is ever, when it is properly made into hay needed. In connection with this crop it the soil bare over winter. We grow con- it loses much of this flavor and can be is well to remember to use sulphate of siderable wheat because we need the fed to all kinds of stock. Indeed, some potash and not muriate or kainit as the straw for mulching berries and trees and people think rye hay is a most excellent two latter are liable to cause ill-shaped for exchanging for manure at the village. hay. Having cut and cured it before the tubers and scabs.

manent pasture as will other stock. But which pays as well for the amount of food nutrients in the plants. It is very

You need have no fear that good rye hay The cost of the 1909 crop was as fol- will kill horses and you need have no fear that the beards on rye will cause any serious trouble to any kind of stock. In consuming the hay the beards are properly masticated so that they do no harm in the digestive tract. Beards on rye hay or barley where the plant was allowed to ripen would be much more apt to cause trouble than the beards on this plant that did not ripen, because the digestive fluid in the stomach and other portions of the elementary canal will act upon the beards as well as on other portions of the plant and soften and otherwise make them so that there will be no trouble whatever. In fact, it is very rare and I cannot recall a single instance where an animal has been injured by eating beards of any kind.

COLON C. LILLIE.

### CHEMICAL FERTILIZERS ON THE FARM.

Fortunately, or unfortunately, as you may look at it, I have had considerable experience with commercial fertilizers. In Florida, in particular, and, indeed, over a great deal of the south, chemical fertilizer is as much an agricultural necessity as seed or tools. Much of the land has a porous subsoil which does not retain the fertilizer so it is impossible to build up the soil and the fertilizer must be added year after year. The most ignorant back-woods cracker must of necessity be educated in agricultural chemicals and, in this respect, he will compare quite favorably with many of the soil experts in the colleges.

During five years that I was growing fruits and vegetables in Florida I used 30 tons of high-grade fertilizer, costing in excess of \$1,000. This was in addition to pure chemicals and organic substances. I became intensely interested in fertilizers and the effects which could be produced by their use upon the various plant growths, and carried on a number of experiments which are as practical here as they were there.

All plants require in varying quantities the three principal plant foods, nitrogen, potash, and phosphoric acid. Nitrogen promotes growth and causes a rank, healthy foliage. Potash produces fibrous growth and makes sound wood or straw and bright colored, highly flavored fruit, while phosphoric acid is needed to develop the grain or seed. These are all needed in the physiology of the plant in the same way that your cows need a balanced ration to produce paying results in the milk pail.

All fertilizers are organic or inorganic, according to the source from which their elements are derived, organic from life sources, inorganic from mineral sources thus a complete organic fertilizer might be made up as follows: Nitrogen derived from cottonseed meal or dried blood, potash from tobacco dust or Peruvian guano.

at just the time when they were needed.

On the other hand, in raising a crop

Thus it is seen that you must not only



## Save Your Clover Seed.

ROTI \$2.00 to \$5.00 more an acre can be realized from your land if you take care of the clover and alfalfa seed.

## The Side Delivery Clover Buncher and Hay Windrower

attaches to any style of mowing machine and bunches or windrows the hay at the will of the driver, as you cut it. No dragging over the ground, threshing out the seed and knocking off the leaves. Often when clover is over-ripe, 50 per cent of the seed is lost in raking and tedding.

The Side Delivery Buncher is guaranteed to pay for itself every day it is used, in labor and seed saved. This machine has been on the market for eight years and over 63,000 are now in use. In cutting clover or alfalfa for seed or for hay or for harvesting peas, vetch, flax, etc., it is as imotant to the farmer as the land his crops grow upon. Write for our catalogue and read what farmers all ver the country say about it. Send your dealer's name.







# lake Your Old Wagon Over Electric



### GRASS SEED GRAIN: AND

WING SEED CO., Box 242, Mechanicsburg, O.

Arrange NOW for Accommodations on Excursion Leaving Immediately After Harves For DEVERS, Liberty County, Texas ORCHARD HOMES

A new Gulf Coast District to be opened this fall and planted to Figs and Pecans.

DEVERS DEVELOPMENT CO.

1627 Williamson Bldg.,

## **ELEVATORS FOR SALE**

Located in first-class farming country. One in town of 50,000; one in town of 2,000; one in town of 1,000. Hay barn in town of 3,000. For full particulars and terms, address BOX 572, VASSAR, MICHIGAN.

## CONCRETE IN THE COUNTRY.

A book of II4 pages, fully illustrated, showing hot oues cement on the farm, furnished free on application by PENINSULAR PORTLAND GEMENT CO. Jackson, Mich., Manufacturers of High-grade Cement

ALWAYS mention the MICHIGAN FARMER when von are writing to advertisers.

study the analysis of your fertilizers but the source from which they are obtained. The best way to determine what a certain crop needs on a special soil is to watch the crop and note what is lacking. Then study to remedy this lack.

study to remedy this lack.

Perhaps some of you do not believe in commercial fertilizers and use only stable manure. Your land may have a reserve fund of potash and phosphoric acid to balance the excess of nitrogen which you are giving it but the chances are that it has not and you are simply wasting a good part of your manure as the plant will take only what it can use in connection with the other elements, and the rest will escape into the air. It is a good investment to use some fertilizer in connection with stable manure.

Probably the most economical metohd of building up poor land with commercial fertilizers is to use them in planting grain crops and seed to clover. Then, if you have the nerve to turn under the clover, you will make permanent in your soil much of the fertilizer value which has not been used up.

While growing citrus fruits in Florida I tried out the following experiment, which will show how one may study soil analysis and crop needs at first hand in nature's workshop. I selected four trees of the same kind of grape fruit. On one I applied a liberal dressing of stable manure; on another a heavy mulch of velvet bean vines was used; while on the others, two kinds of complete chemical fertilizers were applied. The fruit from the trees on which the manure and bean vines had been used, was large, ill-shaped and pithy; while that from the trees fertilized with complete, high-grade fertilizer was bright, firm, and full of juice. Other experiments were carried on with beans and potatoes and in every case the best results were procured with the chemical fertilizers.

Last year in Michigan, on land that positively would not produce marketable potatoes as I proved by planting several rows without fertilizer, by the addition of 400 lbs. to the acre I got a yield of 350 bushels of fine potatoes on about two acres of land.

For the average farmer, the most economical way to buy fertilizer is to study the brands of some reliable make and order that most nearly suited to the case in question. I certainly believe that it is entirely feasible with half the land that is now being worked, and with half the labor, and very nearly half the expense, to produce double the crops that are now being raised, by the intelligent use of chemical fertilizers.

Washtenaw Co. C. R. Ross.

## LIKES OAT HAY.

At times the best of farmers get tied up for rough feed and would be glad to resort to anything possible in order to get through the heavy feeding season without buying extra feed. Most every farmer has a good supply of oats growing and could spare some of them in a pinch. We have done this and think that as a substitute oat hay is a success. Of course, compared with clover or mixed hay it is inferior, yet its feeding qualities are good and the stock like it nearly as well as clover.

Last year we cut about 21/2 acres of oats for feeding and are just finishing them up now. They have been a good feed and not expensive as far as we can We cut these oats when the heads were just turning to yellow. In fact, the field was about one-third yellow when cut. There was no rain on them at any time and this made the feed some better than it would have been had they been We raked with the rgular hay rake and loaded by hand on to the wagon. The oat hay is a little harder to handle than the clover if the oats have grown strongly but outside of that the deal is about the same. We have had clover which took longer for curing than did the oat hay. If you need feed and have some oats thicker than others then it will pay to take the oats from the heaviest place or field if possible. With us the heavy oats made the best hay and it is at such places that the oats will fall down and likely kill out the clover for the next year. Also the thicker the oats the better the hav and the thick places would not make the best of oats for threshing anyhow. Try some this year and then you will see for sure and will have tried something new possibly. I don't think as far as we can see that there is as much danger of heating with this feed as with the regular hay though that has not been proved out

Ohio. R. E. ROGERS.



PRIMITIVE EGYPTIAN PLOW

# Get Good Wheat

and plenty of it, by using modern methods and A. A. C. FERTILIZERS

How W. A. Wortley, Lenawee County, Michigan, does it:

"I plow the ground about 3 or 4 inches deep as soon as the oat crop is off, follow with harrow the next day, and, should it rain, I again harrow all that I have plowed. Then when I get through plowing, I harrow and roll it several times. Then about September 12th to 15th, drill 8 pecks of clean seed per acre and use about 250 pounds of high grade fertilizer to the acre, either 2-8-5 or 3-8-6 analysis. These fertilizers seem to be best suited for our sandy soil. I never got less than 25 bushels to the acre, except one year when I used some so called "Just as good" fertilizer and got less than 20 bushels. Last year I got 32 bushels to the acre, while those who do not use fertilizer usually get from 10 to 20 bushels of wheat to the acre around here. It does not pay to use an incomplete fertilizer or ground bone deficient in Potash, as the straw will lodge without maturing. I have never failed to get a catch of clover by this method. The extra wheat gained by the use of high grade soluble complete fertilizer, will more than twice pay for the fertilizer used, to say nothing of a sure catch of clover and a heavy growth after wheat is cut."

Our soils in the Middle States will produce a good crop of wheat if the farmer goes at it in the right way and uses A. A. C. Fertilizers. This is a well known, established fact.

While the farmer is obliged to take some chances on things beyond his control, he should not take any chances as to the Fertilizer he applies for that is something he can control. There is nothing so expensive to the farmer as a poor crop.

## THE A. A. C. FERTILIZERS

for wheat, as well as for other crops are made not only to contain the full percentages of plant food according to guaranteed analysis but—we go further than that. The agricultural value of our Fertilizers is given the first consideration because we look to the future. We want every farmer who uses our Fertilizer to get good results and increase his orders each season. That is why we are doing a tremendous business.

## **OUR FACTORIES NEVER SHUT DOWN**

Our policy is best materials, good bags, mechanical condition perfect—the best goods that skill, experience and capital can put together and sell at the lowest prices.

While the supply lasts, we will furnish this season A Banner Dissolved Bone, fine ground and perfectly dry, guaranteed to analyze not less than 34% Available Phosphoric Acid. The actual analysis is about 36% Available. This Fertilizer is produced entirely from high grade animal bone, and is considered to be the best form of Phosphoric Acid for fertilizing wheat.

If there should be no agent in your town selling our Fertilizer, write us. It might mean business for you.

## The American Agricultural Chemical Company

Detroit Sales Department, DETROIT, MICH.

LARGEST MANUFACTURERS OF HIGH GRADE FERTILIZERS IN THE WORLD

When writing to advertisers please mention the Michigan Farmer.

## THE MICHIGAN FARMER.

CONDUCTED BY COLON C. LILLIE.

THE IDEAL DAIRY COW.

Every dairyman should have a fixed ideal of the shape and model of the cows he wishes to keep in his herd. The ideal must come before the actual. If he does not have in his mind what an ideal cow is, he will secure her only by accident. How to study dairy form and get this ideal clearly in mind is a question of vital importance to every man who is attempting to get together a herd of profitable dairy cows

question intelligent give this To thought we must lay aside all breed preference and prejudice and look the matter square in the face. There are good and indifferent cows in all the dairy breeds and in all our dealings with cows we should consider them as individual propositions. If the Ayrshire appeals most forcibly to your personal fancy you can accept her with full assurance that well selected cows of that breed will prove profitable under favorable conditions, and this statement applies to all breeds. If

you have a special liking for the soft and pleasing colors of the Guernsey you can find a ready market for her products that will add zest to your enthusiasm. Her milk is especially high colored and she should be second to none for this particular use. The Holsteins are enormous producers and if you like the large blacks and whites they will do the work under possibly less favorable conditions. You may have to do a little more milking to get the same amount of butter-fat. The rich yellow butter produced from the milk of the Jersey has spread her fame to the farthest corners of our land. Choose the breed you like best. Life is too short to

make new breeds or to dairy with cows

and temperament.

sight of individuality if we secure uniform results in breeding. Give us cows that are ideal individuals and we will seidom be disappointed in their performance. The ideal cow should have a deep, long and wide body with an udder extending well forward and backward, that smooth and symmetrical and closely attached to her body; with four teats no up-to-date dairyman depends on guess set wide apart and of the proper size; a work in these days. thin and slender neck and a head indishe should have large, long and tortuous milk veins; and still better, if her udder is decorated with them. Cows of this type seldom disappoint us unless there is some good reason for it. In theory the dairy form should mean a good cow; in practice the good cow always has a dairy Few cows that are deficient in form endow their progeny with dairy great dairy form and temperament.

dairy form and temperament The should be found together always. When the former exists without the latter it is the fault of some man who has interfered with the laws of breeding and development and can not be justly charged up raised her failed to feed her in a manner that would develop her milk giving qualities or her owner is not furnishing her with the proper kinds of food. The faulty. It is my judgment that more city and village. cows are ruined before they are two years of age than after they come in cows that produce results in the milk pail the true dairy form is inferior to her parent stock it is usually due to improper feeding rather than the breed. Let us cows good, comfortable shelter from the acknowledge our own mistakes and not weather, pure water, and rations that dom in feeding. The nerve force must animal in be kept up, the lung capacity made large plenty of rich milk. Have a regular time are the essentials of heavy milk yields.

Sometimes we condemn a heifer before she has a chance to prove her value. Many heifers that possess a good dairy as soon after milking as possible. The form do not do good work the first time skim-milk will then have a greater value they freshen. When we have a heifer as a food for pigs and calves. The quickthat is of the right form and does not produce well the first time she comes in milk we should try her the second time. with the first calf. This holds true no cream until it is free from warmth. The matter what age the heifer is bred. Some of the best dairy cows have not been large producers with their first calves but have proven the wisdom of being given ing is the proper ripening of the cream. a second chance.

clean and sanitary. The young calves few hours in churning after the cream is weather and need protection from all of the butter. weather extremes, and also from the ravages of flies during the hot summer and early fall months. They need pure air and sunshine, but should not be kept outside exposed to the hot sun until they a churn is used, it must be kept scrupuare old enough to run in the pasture, lously clean. In cold weather the churn Some of the best dairy heifers do not get outside of the barn until they are five or six months old. Sunshine makes a stable healthy and is a great stimulator invigorator to all young animals. They must have dry and clean bedding and all feeding utensils must be kept sweet and clean.

They need whole milk for the first three weeks and then it may be gradually changed to skim-milk, and some kind of feed supplemented to replace the fat removed in skimming. One part ground oats sifted, and one part linseed meal Have small makes a good grain feed. racks in their pens, so that they may have a constant supply of tender clover and alfalfa or mixed hay and feed their grain feed dry and there will be little danger of derangements, unless something is very wrong with their care. There is no question of more importance than getting the young calves started toward a profitable dairy animal.

My experience handling heifers from the time they are taken from the skimmilk diet until they are old enough to breed has convinced me that ground oats are the best feed to ensure the development of the organs of maternity in a heifers; and if all heifers were fed this grain in connction with plenty of bulky and succulent farm grown foods there would be few shy breeders and unprofit-

that do not possess the true dairy form able dairy cows. We cannot raise all ideal cows. Some Milk and butter records are selling too men have a mistaken idea that if their many dairy animals. We must not lose cows come from certain lines of blood they are all good and cannot be otherwise. It must be kept in mind that men from good families often go astray. It is the same with animals. know which cows go wrong unless you use the scales and test; but by using these it is possible to tell to a certainty which cows are doing the best work and

Ideal cows must have ideal stables, cating intelligence and nervous force of ideal stalls and an ideal dairyman to a high degree; and last, but not least, care for them. It would be folly to place ideal cows under any but ideal conditions. There are plenty of scrubs to go around among men who provide scrub accommodations for their cows. An ideal cow is worth her keeping and should have ideal care and feed if she is made to pay ideal profits.

W. MILTON KELLY. New York

## MAKE BETTER BUTTER.

The very best grade of butter can and should be made upon the farm but it is an acknowledged fact that a large per cent of the country butter put upon the against the cow. Either the man who market is of a very inferior quality. A man who is authority on such matters says that one-fourth of the country butter is wholly unfit for use. "Any good butter today?" is a question that is being chances are that her early treatment was asked constantly in the stores of every

In any effort toward improvement, good When a well-bred heifer that has and are well cared for, are the very first System and cleanliness consideration. must rule in the dairy barn. Give the blame the sire and dam for want of wis- contain elements calculated to keep the health and to produce and the digestion powerful and almost for feeding and milking. Keep the cows unlimited. Nerves, lungs and stomach and their surroundings clean and the milk will be clean also.

A separator is a necessary adjunct to the proper handling of the milk. Separate er all animal heat can be eliminated from the cream the better it will be. Stand the vessel containing the cream in another development does not always come vessel containing cold water and stir the cream will then keep longer and the butter will have a much better flavor.

The next step toward good butter mak-The cream should be stirred frequently cated."

The ideal dairy cow must begin with to insure an even and uniform ripening. the calf that comes from suitable parent When it becomes slightly acid and runs stock and some simple rules must be fol- from the paddle in a smooth, thick stream lowed if we succeed in growing and de- it is ready to churn. Right at that point veloping calves into first-class dairy cows, is where the quality of the butter to be The first rule is to keep the calf pens produced is endangered. are very suscpetible to changes in the ready will be very apt to spoil the quality

While different people have different opinions as to what style of churn is best the barrel churn is probably the most satisfactory. But no matter what sort of should be scalded with boiling water but in warm weather it is best to rinse the churn out with cold water, rub the inside with salt and rinse again before putting the cream in. A dairy thermometer is a necessity as guessing at the temperature of the cream is not satisfactory. A temperature of from 58 to 60 degrees in warm weather and 64 to 66 in winter is about right for good results. Churn until the butter granules are about the size of a grain of wheat and then stop the churn and draw off the buttermilk. Pour in a pail of cold water, revolve the churn a few times, draw off and repeat. The second pail of water will run off nearly About one ounce of salt for each clear. pound of butter should now be stirred in and then the churn revolved a few turns to properly distribute the salt and work out the water. The butter is now ready to prepare for market. It should be molded out into neat bricks and wrapped If the maker's in parchment paper. name appears upon the wrapper it will show that he is not ashamed of the product.

When a fine grade of butter has been produced some attention must be given to the marketing of it. One must study conditions and decide for himself as to which is best. Some can secure a good price by shipping to a city dealer while others may be able to sell their product to families in nearby towns. Local dealers can rarely pay enough to warrant selling good butter to them.

It should be borne in mind that there are no fixed rules for successful and profitable butter making. Everyone must adapt themselves to the conditions pe-You may not culiar to their own environments and pay close attention to the little points they are what usually make or mar success. Always endeavor to improve the quality of the butter produced and have no fear of not receiving a good price for the demand for good butter is never supplied.

"ROBBER" COW PREVENTS DAIRY DEVELOPMENT.

SUBSCRIBER.

"The low average production of the dairy cows of the United States," said an official of the Bureau of Animal Industry recently, "is a condition that does more than any other one thing to prevent development. The dairyman whose herd is averaging 400 lbs. of butter-fat is not the man who opposes the tuberculin test or who has unimproved equipment and filthy surroundings. On the contrary, he seeks the tuberculin test, and seeks information of all kinds that will enable him to protect his herd and his business and to conduct his business in the best possible manner. The man who is fighting the tuberculin test, milk ordinances, and the inspectors, and who is continually making the greatest complaints about unremunerative prices is usually the owner of the average cow, which produces not over 150 to 175 pounds of butter-fat per annum.

"Work that tends toward the improvement of the latter type of dairyman, therefore, has a direct effect upon most of the vital problems confronting the dairy industry. At present he recognizes that he derives but little profit from his business, and he naturally concludes that sanitary requirements, the tuberculin test, etc., are going to reduce his profits further, which his business can not stand. But when the productiveness of his cows has been improved and they have become profitable, he is naturally inclined, for the sake of his own business interests, to house and care for them, better and to protect them from tuberculosis and other diseases. In so doing he complies with a large part of the health requirements. With herd records kept but one day in a month the best cows can soon identified; and if a pure-bred bull of good quality is used, only a few years are required to develop a productive herd and bring about the conditions just indi-



Ever Made by Any Cream Separator.

## Only SHARPLES

Could Do It.

We have repeatedly told you that Sharples Dairy Tubular Cream Separators wear a lifetime. One of our regular hand-driven Dairy Tubulars, of 500 pounds capacity per hour, recently finished work equal to 100 years' service in a five to eight cow dairy. Total cost for oil and repairs only one dollar and fifteen cents. This Tubular is free for all to inspect who visit the world's greatest separator works. Ask us to mall you the fully illustrated record of this great demonstration of Tubular superiority. See how the parts of this Tubular resisted wear. Tubulars are guaranteed forever by America's oldest separator concern, Tubulars outskin Tubulars outskim as well as outwear all others. Have twice the skimming force. Skim faster. Skim twice asclean. Dairy Tubulars. contain exchanged for Tubulars, are yrs

## DELAVAL CREAM SEPARATORS

THE SHARPLES SEPARATOR CO. WEST CHESTER, PA.

Chicago, Ill., San Francisco, Cal., Portland, Ore. Toronto, Can. Winnipeg, Can.

are as much superior to other separators as other separators are to gravity setting methods. Why go but "half-way" when buying a separator? Why not insure satisfaction by getting a DE LAVAL?

THE DE LAVAL SEPARATOR CO.



Kills Ticks. KEEPS **FLIES OFF** Cattle and Horses

and allows cows to feed in peace, making More Milk and More Money for you. A clean, harmless liquid preparation, applied with a sprayer. Keeps cows in good condition and saves five times its cost in

## TRIAL OFFER

If your dealer cannot supply you, send us his name and \$1.25, and we will deliver prepaid to your address 1-2 gallon can of COW-EASE, and SPRAYER for applying. For West of Missouri River and for Canada, above Trial Offer, \$1.50.

Satisfaction or Money Back.
CARPENTER-MORTON CO-

BOSTON, MASS.



FRIEND Keeps flies and all nsects and pests off

\$1 worth saves \$20.00

in milk and flesh on each in milk and flesh on each gares, stops itching SEND \$1 if your dealer can't supply enough Shoo-Fly to protect ows, and our S-tube gravity sprayer extra charge. Money back if not entistactory, for Booklet, free. Special terms to agen

Shoo-Fly Mfg. Co., Dept. H 1310 N. 10th St., Phila

Something new. Lasts forever. Made of best Ohio clay. Write National Fire Proofing Co., Canton, Ohio

CARE OF STOCK IN SUMMER.

With the sun at its zenith animals of all sorts feel the heat, and this will continue more or less for months to come. warm, boiling atmosphere troubles them considerably, and makes them appreciate shade. Cows are much harrassed by it. The milk supply tells this. On the evening of warm days there is generally falling off, and in many cases a decided decrease. The cows, too, do not gain in condition, but the reverse. The depression is not so much noticed in young cattle, but it is quite easy to understand that they suffer equally. Sheep feel it intensely, and often pant and gasp for breath. Pigs suffer from scorched skins and are extremely unhappy. Indeed, altogether excessive heat is a decided disadvantage. There is, however, no getting away from it, as it will occur, and the only relief is to be found in providing shade.

On some farms there are sheds here and there in the fields. These are excellent conveniences, and should be made as much use of as possible. Posts, poles or twoby-four scantlings and any kind of suitable stuff for roofs are the materials re-In many cases these can be constructed at comparatively small expense. When they are put up it should always be in a central location, so that the stock from several fields can make use of them.

But where sheds are not provided, the shade of trees is the only substitute, and this proves very useful. Flies are not partial to shady places, and to get away from these is a great relief. Trees, however, are not to be found in every field, but there are few farms in which they do not occur in some fields, and the greatest attention should be given to arranging for the stock to occupy these in the day time in hot weather. Such protection goes farther towards maintaining their condition and assuring their progress than anything else that could be done for them under the circumstances.

I feel quite confident that, were it possible to learn from an animal whether it would prefer a good square meal or com-fortable shade on a hot day, the latter would be chosen very generally from early June to late September. Fields with no shade are most suitable for night grazing. Besides the worry to the stock, unshaded fields often cause trouble to the owner, as the animals will get restless and go through the fences. If no shade is available anywhere, the stock should always be kept near the farm yard in the daytime, and allowed to go into the buildings when disposed, which will be very often in hot weather.

The water supply is of equal or greater importance. In fact, it is imperative. The most acceptable of all is a running stream. Wherever this occurs, every effort should be made to let as much of the stock have access to it as possible. All the grazing fields may not adjoin the streams, and if arable ones come between it often pays to arrange a lane along the side of the field to admit them to water. Sheep suffer the least from a deficiency of drinking water, and horses and cattle the most. Pools that are kept clean and shaded with trees are the most acceptable supply, but when the contents are hot and dirty, the thirst may be quenched and they drink with apparent relish, but ills of more or less magnitude are apt to follow, and if there is a dirty pool most convenient, and a clean one far away, it will be the cheapest in the end to keep the stock from the filth and give more time and attention to admitting them to the clean.

This whole matter of shade and water supply is one that should be taken into consideration by every man, not after, but before he adopts the policy of raising stock on anything like a large scale. Where water has to be hauled even in dry seasons, and when the supply is short at those times of the year when the farm is heavily stocked, an entirely different policy ought to be carried out than would be the case were the water supply abundant. If there is any place where the policy of grain farming, as distinguished from stock farming is applicable, it is in those cases where shade is lacking and the water supply scarce.

Illinois. W. H. UNDERWOOD

Grassy calves are being marketed in in creasing numbers and sell badly.

HERE'S a fair and square proposition to every man who owns, breeds or works horses. We offer to tell you how to cure any horse of lameness—absolutely free. We offer you without one cent of charge, the advice of one of America's leading specialists on the lameness of horses. Many

a good horse, temporarily lame, is sold for almost nothing, because the owner does not know how to go about getting rid of the lameness. Don't let your horse suffer—don't sell him for a few dollars—ask us to tell you how to remove the lameness safely, surely and quickly. See illustration of horse below and read paragraph, "Free Diagnosis Coupon."

Mack's \$1,000 Spavin Remedy Is Guaranteed

to quickly and permanently relieve the very worst case of Bone or Bog Spavin, Ringbone, Thoroughpin, Curb, Capped Hock, Shoe Boil, Sprung Knee, Lacerated and Ruptured Tendons, Sweeny and all other forms of lameness affecting a horse. It's a powerful remedy that goes right to the bottom of the trouble and quickly restores natural conditions in the bones, muscles and tendons—cures the lameness in just a few days to stay cured and the animal may be worked as usual. Contains nothing that can injure the horse and heals without leaving scar, blemish or loss of hair. We positively guarantee every bottle of Mack's \$1,000 Spavin Remedy; fit fails, you get back every cent you paid for it as stated in our \$1,000 Warranty Bond. Write us today and get our free diagnosis. Don't let anyone "blister" or "fire" because such methods are positively cruel, inhuman, extremely painful, always leave a big scar and seldom do any good. Use Mack's \$1,000 Spavin Remedy to remove the lameness quickly and without a bit of pain.

## Relieves Cases Formerly Considered Incurable

No matter how long your horse has been lame, or what the nature of his lameness, you can absolutely rely upon Mack's \$1000 Spavin Kemedy. We know of many cases where horse owners have paid out big fees and had valuable animals tortured with "firing," "blistering" and other good-fornothing methods and as a last resort tried Mack's \$1000 Spavin Remedy, and were amazed at the painless, positive, quick and permanent cure. It does not leave any sear, blemish or loss of hair absolutely no mark to show that the animal has ever been lame. Safe to use on any horse, old or young. It's the surest remedy money can buy, and it's the only spavin remedy in the world that is absolutely guaranteed by a

\$1,000 Warranty Bond Write for a sample of this bond and other value-able information about lame horses. Mailed free upon request.

Your Druggist Will Obtain Mack's \$1,000 Spavin Remedy For You-

If you ask him. Price \$5. per bottle. If he refuses, remit \$5.00 to us and we will see that your order is filled without delay.

No matter where, when or from whom you buy Mack's \$1000 Spavin Remedy the price is the same. Every bottle is absolutely guaranteed, and is accompanied by our \$1000 Warranty Bond, which insures you that your money will be refunded if the remedy falls to do all we claim for it, as stated in our guaranty.

Do not accept a substitute, for there is no other remedy like Mack's \$1000 Spavin Remedy—nothing so powerful and sure to cure. It stands supreme as a remedy in all forms of lameness.

MCKALLOR DRUG COMPANY Binghamton, N. Y.



just what the lameness is, and how to Absolutely no charge. Write today.

Free Book-"Horse Sense"

Send us the Free Diagnosis Coupon, get absolutely free a copy of our book "Horse-Sense." Describes and illustrates diseases of horses limbs, shows correct name for every part of horse and tells valuable facts every horse owner ought to know.

A-6 A-6

# HARNESS HORSE

COLLARS Ask your dealer for the Label.

Made and Warranted by

WHOLESALE ONLY.

DETROIT.

ESTABLISHED 1880.

Please mention the Michigan Farmer when you are writing to advertisers and you will do us a favor.

## Horse Owners

Look to your interests and use the safest, speediest and most positive cure for allments of your horses, for which an ex-ternal remedy can be used, viz:

## **GOMBAULT'S** CAUSTIC BALSAM



SUPERSEDES ALL CAUTERY OR FIRING.

Impossible to produce any scar or blemish. The safest best Blister ever used. Takes the place of all liniments for mild or severe action. Removes all Bunches or Blemishes from Horses

or Cattle.
Every bottle of Caustic Balsam sold is
Warranted to give satisfaction. Price \$1.50
per bottle. Sold by druggists, or sent by express, charges paid, with full directions for its
use. Send for descriptive circulars, testimonials, etc. Address
THE LAWRENCE-WILLIAMS COMPANY, Cleveland, Ohio

## NEWTON'S HEAVE COUGH, DISTEMPER CURE



**DEATH TO HEAVES** 

The first or second \$1.00 can cures Heaves. The third can is guaranteed to cure or money refunded.
\$1.00 per can at dealers, or express prepaid. THE NEWTON REMEDY CO., Toledo, Ohio





# **Hard Rubber Teat Plugs**

For hard-milking cows or leaky teats. Prevents leakage where teat opening is relaxed and cures hard milking where due to an obstruction in the canal. Our price 35c each, or \$1.00 for a set of four. Send orders to

THE MICHIGAN FARMER, Detroit, Mich.





Keep a close watch for worms this month. Now is the time they begin to get in their deadly work. Look out for drooping ears, dull eyes, laggard steps, gannt looks, colic, diarrhoea, pale skin, etc.

Don't forget that when these symptoms are present it means that worms already have a death grip and something must be done quickly. Let me do it for you. I'll get rid of the worms and save your lambs. I'll put your whole flock in prime condition. I'll prevent worms from getting further foothold. I'll show you how to conquer these dreaded pests in all your live stock. I'll do this before you pay me one penny. I'll do it with Sal-Vet, that wonderful worm destrover and conditioner just as I have done it for thousands of other farmers. I'll save you money, worry, time and trouble. Here are just a few sample letters showing what Sal-Vet really does. For stomach and free intestinal worms it has no equal.

"We had 609 sheep. 100 we fet Sal-vet and did not loss a single one. Out of the 500 we lost 26." Corwin Skidmere, Fenton, Mich.

"Thay not lost a single lamb since using Sal-vet." A F. Anderson, Erwiton, Ital.

Sidney R. Fell. Press. THE S. R. FEIL CO. Dent. M.F.

Sidney R. Feil, Pres., THE S. R. FEIL CO., Dept. M. F. Cleveland, O. [35] Prices: 40 lbs., \$2.25:100 lbs., \$5; 200 lbs., \$33: 500 lbs., \$21.12

risk.

CONDUCTED BY W. C. FAIR, V. S.

Advice through this department is free to our subscribers. Each communication should state history and symptoms of the case in full; also name and address of wrif rr. 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.

Bog Spavin—Thoroughpin.—We have a three-year-old colt that injured hock when jumping a fence; the joint is puffed in front and on both sides, but the bunches are soft. G. McI., Imlay City, Mich.—Apply equal parts tincture iodine and spirits of camphor to bunches three times a week. You will find it very difficult to reduce the swelling.

Wound.—Some three months ago one of my horses kicked the other on fleshy part of leg, making a large deep wound, and I have been unable to heal it. W. S., Manistique, Mich.—I imagine the wound gaps open and is filling with scar tissue of a fungus nature, which should be burned out. Apply peroxide of hydrogen twice daily, ten minutes after each application dust on equal parts boric acid, powdered alum and iodoform. If you dissilke the smell of iodoform, use iodol instead, for this preparation is almost odorless. If the wound is filled with fangus tissue, either cut it out or burn it with a red hot iron.

Ringbone.—I have a three-year-old mare that shows considerable lameness when trotted on hard footing or down hill. She has an enlarged pastern and we thought it might be ringbone. S. H., Brooklyn, Mich.—As a long drive brought back her lameness, you had better give her rest and apply one part red iodide mercury and eight parts cerate of cantharides to pastern three times a month until she recovers.

Umbilical Infection—Chafed Joint—When my sucking colt was four or five days old it showed weakness in one fore fetlock joint; in a day or two it became worse. I consulted our Vet. and he advised me to put Basswood bark around the joint, which I, did, with cloth inside of bark boot. This was all right for about a week, then the leg became sore and raw, the hide and hair came off; now I have the boot off and am doctoring the raw sore, which looks bad to me. F. B., Mayville, Mich.—It is generally bad practice to apply boots or bandages to the legs of a young colt that suffers from joint disease the result of navel infection. Apply peroxide of hydrogen to navel of ceit, then apply one pa

should avoid feeding her too much bulky food.

Barbed Wire Cut—Open Joint.—My pony horse ran on a barbed wire fence May 15, cutting stifle joint badly, which resulted in open joint. Our local Vet. has treated him, but the joint is still discharging synovia and the muscles of hip have grown smaller. Mrs. C. W. R., Gladwin, Mich.—Continue keeping the pony quiet, as exercise will do harm. Apply equal parts boric acid, tannic acid and iodoform to wound twice a day, covering it with oakum. Your colt must have managed the case fairly well.

Poorly Developed Lungs—Obstructed Head.—Recently I lost a colt at two weeks old. From birth this colt breathed like a broken-winded horse and would frequently open his mouth to get breath.

ed like a broken-winded horse and would frequently open his mouth to get breath. The first four days there was a leakage from the navel, but this soon stopped. For several days before it died its bowels and kidneys acted well. The mare was worked quite hard during the hot weather, up to foaling time. R. C., Kent City, Mich.—The lungs and head of your colt were not properly developed. Nothing in the line of treatment will help a case of this kind.

Impaction.—Last Friday evening a two-

Impaction.—Last Friday evening a two-Almpaction.—Last Friday evening a two-year-old heifer came home sick; she runs on new pasture land, has access to plenty of good water and she showed symptoms of stoppage of bowels. I treated her the best I knew how by giving salts, oil and laudanum; this treatment seemed to re-lieve her, but she is quite dumpish yet. H. H., White Cloud, Mich.—Mix together equal parts fluid extract ginger, fluid ex-

(Continued on page 31).

## **Automatic Cream Separator CRANKLESS AND GEARLESS**



THE "OLD" WAY

Nothing like it has ever before been invented. One size machine for any size dairy. The drudgery of dairying now a thing of the past.

It separates the milk perfectly, faster than ten men can milk it.

Start the separator when the milking begins and it being both automatic and continuous in its operation, when the farmer is through milking he is through skimming.

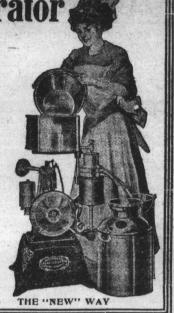
Speed of bowl brought up in 15 seconds and will run for hours without the slightest variation or attention.

It is destined to revolutionize the dairy business. Dealers selling the AUTOMATIC find it in a class by itself, which eliminates all competition. Write for catalog "J" and prices.

See Our Exhibit at Your State Fair. STANDARD SEPARATOR COMPANY

Sole Manufacturers and Patentees

MILWAUKEE, WISCONSIN



## You Can Insure Against

Storm, Fire, Decay, Trouble, Vexation and Expense for Repairs, by Building an

## PERISHABLE

made of Patented Hollow Blocks of Vitrified Clay, the same Material used for Sewer Pipe. It lasts always. Our Interlocking Clamp Gives Great Strength. Blocks are successfully used for grain tanks. Silage keeps perfectly clear up to the wall. Does not absorb moisture. Better than cement.

Write at once for free booklet.

Imperishable Silo Co.,



I keep about 2400 cholera proof brood sows and am selling fine grade

Yorkshire, Poland-China, Duroc and Tamworth Weaned Pigs at \$3 each. ALVAH BROWN'S PIG FARM GRAND RAPIDS, , -

BREEDERS' DIRECTORY.

CATTLE.

## ABERDEEN-ANGUS.

Herd, consisting of Trojan Ericas, Blackbirds and ides, only, is headed by Egerton W. a Trojan Erica, Black Woodlawn, sire of the Grand Champion steer deal at the International in Chicago, Dec., 1910. is assisted by Undulata Blackbird Ito.
WOODCOTE STOCK FARM, Ionia, Mich.

## 30 As Choice Holstein Cows

as you will find anywhere in Ohio or Michigan.
hope to sell 15 before Alfalfa having time. You can
have your choice of one cr 15. A few good bulls and
bull calves. L. E. CONNELL, Fayette, Ohio.

## TOP NOTCH HOLSTEINS

Top Notch registered young Holstein Bulls com-bining in themselves the blood of cows which now hold and have in the past held World's Records for milk and butter fat at fair prices; MCPHERSON FARMS CO., Howell, Mich.

For Sale—Handsome thoroughbred 10 months Holstein bull, backed by heavy producing families. An excellent individual at a bargain for a early sale. ROUGEMONT FARMS, Detroit, Mich. Holstein Friesian Cattle-BULL CALVES,

ary Mercedes, W. B. JONES, Oak Grove, Michigan HOLSTEIN-FRIESIAN Cattle and Duroc Jersey swine Bull calves for sale from A. R. O. Cows. E. R. CORNELL, Howell, Michigan.

HOLSTEIN BULLS—1 with a 20 lb. Dam; 'A grand one at a low figure. Several fine ones at lower cost LONG BEACH FARM, Augusta, Kalamazoo Co., Mich.

HOLSTEIN BULL CALVES For Sale-From Sire has 75% of the blood of the sire of Grace Fayne 2nd's Homestead. E. COLLIER., Fowlerville. Mich.

FOR SALE—Choicely bred regressed for service, from Advanced Registry dams. WILLIAM B. HATCH, Ypsilanti, Michigan.

FOR SALE-Reg. St. Lambert Jerseys, producing stock. C. A. BRISTOL, Fenton, Michigan.

FOR SALE—Holstein Bull 2 years old \$125. Bull Calves 6 months to 1 year \$50 to \$100. Bred heifers \$150 to \$200. Oldest herd in Ind. Send for Photes and Pedigrees, W. C. Jackson. 715 Rex St. South Bend. Ind.

HEREFORDS—Both sexes and all ages for sale. Also Poland China hogs. ALLEN BROS, Paw Paw, Mich.

BUTTER BRED JERSEY BULLS
FOR SALE
CRYSTAL SPRING STOCK FARM.
Silver Creek, Allegan County, Michigan.

JERSEY BULLS-Reg. Ages from six months to maturity. Dams high producers. Prices right. W. E. SHELDON, Litchfield, Mich.

Register of Merit Jerseys. Offical yearly record. A fine lot of young bulls from dams with official records young bulls from dams with official recopounds and upwards of butter.
T. F. MARSTON, Bay City, Michigan.

LILLIE FARMSTEAD JERSEYS. HERD BULLS (Vidas Signal St. L. No. 58197.
Bull calves sired by these great bulls, and out of splendid dairy cows, many of them in test for register of merit. Also a few helfers and heifer calves for sale. Write for description and prices. Satisfaction (Armondo, or money refunded.

COLON C. LILLLIE, Coopersville, Michigan.

JERSEYS FOR SALE—A few choice heifers and heifer calves richly bred. A. NEWMAN, R. No. I, Marlette, Michigan

# DAIRY SHORTHORNS of the Best Milking Families. All milk weighed and records kept. W. W. KNAPP, R. D. 4, Watervilet, Michigan.

REGISTERED JERSEYS For Sale—Some combin, ing the blood of St Louis and Chicago World's Fair Champions by HERMAN HARMS, Reese, Mich.

DAIRY BRED SHORT HORNS—Bulls all still in the business. J. B. HUMMEL, Mason, Mich.

SHEEP.

Oxford-Down Sheep and Polled Durham cattle forsale, J. A. DE GARMO, Muir, Mich.

Oxford Down Sheep Good Yearling Field Rams and ewes of all ages for sale. I. R. WATERBURY. Highland, Michigan.

Reg. Rambouillets—I have 100 ewes, among them also 85 ewe and ram lambs. Live 2½ miles enst of Morrice on G. T. Road. Address J. Q. A. COOK.

Hogs.

Durocs & Victorias Growthy Spring Boars & Gilts of choicest breeding from Prize Winners. M. T. STORY, R. 248. Lowell, Michigan.

BERKSHIRE PIGS combining the blood of the Masterpiece and Premier Longfellow families—the world's best breeding Price \$15. C. D. WOODBURY, Lansing, Michigan

BERKSHIRES-Young boars ready for service at farmers prices. H. W. WIGMAN, Lansing, Michigan.

Berkshires—Ten gilts bred to the wonderful Duke Pontiac Chief, to farrow in April or May, No better breeding. C. S. Bartlett, Pontiac, Mich.

BERKSHIRES—Registered boar pigs, exceinent individuals, breeding unsurpassed. Price \$15. C. C. COREY, New Haven, Mich.

TWO Berkshire Gilts, sired by Handsome Prince 3 Bbred for Aug., farrowing, will sell at \$40 & \$45 also a few spring pigs left. A. A. PATTLLUO, Deckerville, Mich

A DAMS BROS., Litchfield, Mich., breeders of Imp. Chester A White and Tamworth swine, service boars, sows brod or open, of either breed. Shorthorn Cattle, Buff Rock, Buff Wyan-dotte, W. Orpington, Ckis. all breeding stock leading winners

O. I. C. Swine—Bred gilts, males weighing from 150 to 250 lbs. Price and type right, Geo. P. Andrews, Dansville, Ingham Co., Mich.

0. I. C.—March pigs with quality and best pedigrees. Order now and get first choice. C. J. THOMPSON, Rockford, Michigan.

O.I. C's For Sale—Best quality, large growthy akin, some fine bred gilts, choice lot of fall pigs all ages. OTTO B. SCHULZE, Nashville, Michigan.

CHESTER WHITES—Sold out but business of raising Chesters and Holstein cattle. Both Phones. W. O. WILSON. Okemos, Mich.

O. I. C'S. Bred sows all sold. 93 choice Mar. & April in buyers name. Fred Nickel, R. No. 1, Monroe, Mich.

O. I. C. March Pigs and Sows to far row H. W. CLARK, R. F. D. 4, Brighton, Michigan.

O. I. C's.—All ages, 25 young and 2 yearling sows, safe-in pig. Price for a short time \$22 to \$30. H. H. JUMP, Munith, Michigan.

O. 1. C.—Choice registered pigs 8 to 16 weeks old, from World's Fair Winners. Glenwood Stock Farm, Zeeland, Mich. (Phone 94.)

O. I. C. Choice Spring Pigs, either sex. Pairs not get first choice. All pigs shipped on approval and Reg. HARRY T. CRANDELL, CASS CITY, MICH.

O. I. C. SWINE—My herd is chiefly strain both males and females. Get my price before you buy. Will register free of charge in purchaser's name. A. J. GORDEN, R. No. 2. Dorr. Michigan.

DUROCS-Bred Sows and Spring Pigs. Write for prices. A. H. GUISBERT, Gliford, Michigan.

Duroc Jerseys For Sale—A few sows bred for summer farrowing and Spring pigs both sex. M. A. BRAY, Okemos, Michigan.

DUROC-JERSEYS-Bred Gilts and spring pigs for sale. CAREY U. EDMONDS, Hastings, Michigan.

DUROCS-25 Bred Sows, of high quality. 10
Excellent Boars ready for service.
75 Fall Pigs both sex. Write or come and see.
J. C. BARNEY, COLDWATER, MICHIGAN.

LARGE TYPE P. C. Largest in Mich. Sept. & Oct. pigs weigh 250 to 200 lbs. Sired by two largest boars and from largest sows in State. Come and see and be convinced. W. E. Livingston, Parma, Mich.

Bargains P. C. Boars ready for service, fall boar pigs. Prize winning Airican & Embden Geese. Z. KINNE, Three Caks, Mich.

POLAND=CHINAS—Book ing orders for spring pigs. WOOD & SONS, Saline, Michigan.

Spring Pigs either sex. Fall sows, Write L. W. Barnes & Son, Byron, Shiawassee Co., Mich.

I PAY THE EXPRESS on DUROC JERSEY Pigs. JOHN H. BANGHART, Lansing, Michigan.

## Three Extra Good Fall P. C. Boars By Next In Line. 32 spring male pigs-ready to ship. I ship C. O. D. and furnish pedigree promptly. If you want good as the best, write me for prices.

WM. WAFFLE, Coldwater, Michigan. Butler's Famous Wonders—The big Poland-China, without a peer, combining, size, bone, quality. We're headquarters for everything in Poland-Chinas, Herd boars, brood sows, wearling pigs, always for sale, Registered Jersey Bulls of all ages for sale, our prices are low. J. C. Butler, Portland, Mich. Bell Phone.

BIG TYPE POLAND CHINA BOARS, also fall and early spring pigs. B. P. Rock eggs \$1.00 per 15.
ROBERT NEVE, Pierson, Michigan.

FOR SALE PURE YORKSHIRE PIGS. MURRAY-WATERMAN CO., ANN ARBOR, MICH.

Lillie Farmstead Yorkshires Holywell Oak Lodge blood predominates. Large Herd. Three service boars. Pairs and trice, not akin. Boars ready for service. A fine lot of spring pigs. Gilts bred for August farrow. The best hog on earth. Satisfaction guaranteed. COLON C. LILLIE, Coopersville, Mich.

Please mention the Michigan Farmer when you are writing to advertisers.

27

## THE MICHIGAN FARMER.

SOME TROUBLES OF INQUIRERS DIS-CUSSED.

In the veterinary column of a recent Farmer are several poultry queries whose writers will no doubt be helped by a little more extended discussion of their difficulties. In the case of Mrs. G. B., of Rodney, Mich., the inquirer neglects to state whether her chicks run with hens or are confined to brooders; likewise whether they are yarded or have free range. If brooder chicks, confined in yards, they may need grit, or green food, or says she feeds wheat She screenings and scraps. Does she mean meat scraps or table scraps? If the latter, her chicks will need some form of meat food, either ground beef scrap or Either of these foods may meat meal. be secured from the large packing houses. Mix about 5 per cent of meat meal with some ground feed-corn meal is all right -- and feed it once a day moistened with water, or with milk if you have it. This is for chicks confined in yards. If at liberty with hens they will no doubt pick up bugs and worms enough to furnish the meat supply.

But first of all I would advise this inquirer to look for lice. About 90 per cent of the ills of chicks are due to lice, consequently it is necessary to be on a watch for them, remembering that there are several kinds of lice. The large grey head louse that lays its nits on the head and neck may be killed by greasing the head and neck with melted lard into which a few drops of kerosene have been Then there is a smaller fleshmixed. colored louse which is found among the thick feathers on the body; also a very small white louse found in the hollows under the wings. A good dusting with insect powder is best for these. Last, but not least, is the little red spider louse or mite which breeds and lives in the coops, attacking the chickens at night. These parasites make poultry life miserable, the first of June and by the first of July killing the chicks and decreasing the egg will be giving all the protection required. supply.

If these chicks are in brooders, I suggest that, during the morning when the respondent, Mr. W. E. West, showing the chicks are out in the yard, you paint the luxuriant growth made by the climbing inside of brooder with kerosene, using a vine known as the Dutchman's pipe. Its small paint brush or small piece of cloth botanical name is Aristolochia Sipho. tied to a stick. Leave the brooder open This vine, planted in the poultry yard, to air. At night, when all are back in could be relied upon from year to year brooder, dust them well with insect pow- as it is not an annual and consequently

in sulphur, enough to make it yellow. Apply this to the heads and necks, and down a little way on the feathers. The and they will stop pulling and eating the person, as the Pekin duck, although a feathers. Then to increase their oppor- great many farmers keep the Pekins. tunity for exercise spade up one corner grain in it. This will give them some-

stick together, and feed as much as they drink and paddle in. will eat up clean once a day in troughs. Do not feed it on the ground. Give them mented as this will cause convulsions, some fresh green food also as the grass All food should be clean, fresh and whole-Throw in an armful of weeds. Keep them busy and I think this inquirer etc. When confined they can not secure the way of grit. these and something must be supplied to MRS. G. H. FORCE. take their place.

### SHELTERING POULTRY FROM THE SUN.

Where it is not convenient or practical to give the poultry the run of an orchard or grove it is necessary to provide shade for the flock during the heat of mid-summer. There are many and various ways of meeting this need and those who did not look ahead and plant something in the poultry yard which, by this time, is shielding the fowls from the rays of the sun, should provide a temporary shelter of some sort without further delay. good plan is to plant, very early in the season, some rapid growing vines. With a few simple trellises for these to run upon they will furnish some shade by

In this connection we reproduce a photograph sent us by an Ingham county corder. Use Persian insect powder or pyre- would not have to be planted afresh each

CARE OF PEKIN DUCKS.

There is probably no domestic fowl that oil and sulphur are distasteful to them is so little understood, by the average

Pekin ducks are larger than others and of the yard and scatter a little whole they are also larger feeders, especially while young. Unlike a gosling, if a duckthing to think about besides standing ling is forced to hunt his own living he around and pulling feathers. Every day soon becomes worthless. Green food is or two spade up the patch and scatter a essential, but he can not thrive on grass little more grain. Wheat is best, as the alone. Neither is whole grain a suitable grains are small and require more ration for young ducks. Some people feed scratching to find them than does corn. their ducklings whole wheat, cracked Make a mixture of ground beef scrap, corn, etc., the same as they feed chicks. or meat meal, and wheat bran, using 1 The result is anything but satisfactory. part of the meat to 10 parts of bran. The ducks are small, stunted creatures, Mix it thoroughly dry. Enough can be unfit for market or any other purpose. mixed in a box or bin to last several days. Another common practice which always Wet up enough for one feed at a time, works mischief is having a hole in the moistening it just enough to make it ground filled with water for the ducks to

Never feed any mixture that is ferin the yard may have become tough and some. Grit is absolutely essential at all times, but it should never be mixed with the feed. If added to the feed the ducks will soon have eggs. Meat food for hens are sometimes forced to eat more grit in confinement is necessary. Their na- than they require. Clean, sharp sand and tural food is bugs, worms, grasshoppers, coal cinders seem to be all they need in

There is little danger of over-taxing a Pekin duckling's digestion, after he is six weeks old, providing he has plenty of green food and grit along with the other ration, which should be composed of ground grains, cooked vegetables, skim-milk, etc. Buttermilk or skim-milk, should be used to moisten the ground grain. Never give ducks milk to drink. A mixture that ducks will grow very fast upon is composed of cooked potatoes mixed with equal parts corn meal and bran with enough milk to moisten, without being sloppy. When potatoes are used they should not be added until after the bran and meal have been moistened. If the dry meal is added to the potatoes the result is a gummy mass that the ducks do not relish. Cooked turnips are sometimes used instead of potatoes. Cooked cabbage makes a very good foundation for the ground grain.

Ducks do not require a very highly concentrated ration. Bran is an important factor in duck feeding. It should be largely used while the ducklings are being forced for market and during the laying period. A good mixture for either flesh or egg production is composed of one part corn meal, one part oat meal and two parts wheat bran. This should be well moistened with either milk or wat-Add a little powdered charcoal and also a little salt once a day. Do not confine ducks, young or old, to one kind of feed; they like a variety. If whole corn must be given, it should be soaked over night. They relish an occasional feed of green corn, cut from the cob.

My young ducks are fed five times a day, when being fattened. We give them all they will eat up clean, each time. Their feed boards are cleaned often, and fresh water to drink is given with every meal and also between meals. Ducks must have shade in hot weather. An orchard is a good place if properly fenced. Ohio.

### PREPARING THE EARLY CHICKS FOR MARKET.

The chicks that were hatched early are nearing the marketable stage. All but the likely looking pullets which it is desired to retain for early winter layers should be separated from the flock and prepared for market. To fatten them so that the muscles will be soft and tender they should be confined in small pens or fattening crates for two or three weeks before they are killed and sold. Chickens weighing from three to four pounds each, that are thrifty and of good breedshould make most

ing, Fattening crates are usually made 6 ft. long, 18 to 20 in. high and 18 in. wide. ens. The crate is made of slats usually apart to allow the birds to put their tom slat at the back fit too closely against the back or the droppings will collect and and top are usually two inches apart.



## Are they worth Protecting

A few dollars invested in the Dodd System will protect your home from lightning. Not for a thousand times the cost would you have the lightning strike one of your

Then be wise in time. Make the small investment now that insures safety. You can't doubt the evidence that the

# **Dodd System**



Protection

does mean safety. The fire insurance companies make it their business to know. They do know. Over 2000 of them endorse the Dodd System. Their resolutions are direct, positive, personal. They endorse the Dodd System of Lightning Protection by name. They mention no other system. The Dodd System is guaranteed. A bind. by name. They mention no other system. The Dodd System is guaranteed. A binding written contract insures your money back or damage made good, if damage ever occurs. You cannot lose a dollar, Act now. Read our great Lightning Book and be convinced. Filled with facts, vivid lightning scenes, explanations, resolutions of endorsement, the whole subject of lightning, its cause, how controlled, etc. A large book, finely illustrated and printed, FREE. Address to-day

**DODD & STRUTHERS** 429 6th Avenue Des Moines, Iowa

# LIGHTNING



I'll Save You 325.00 And Up

on my 1911 Split Hickory Auto-Seat Buggy. Or, 25% saving guaranteed on retail price of any vehicle. Made to order. 30 days' road test—2-year guarantee.

Let Me Pay the Postage on Big

Free Book to You Shows in styles. Also harm Beautiful color-views. Prices shingly low. Write me now.

H. G. Phelps, Pres. he Ohio Carriage Mfg. Co Sta. 32, Columbus, O.

EGGMAKERS "-S. C. Brown Leghorns, 4 set-tings (52 eggs) \$2, per 100, \$3,75 WM. J. COOPER, Mt. Pleasant, Michigan.

EGGS FOR HATCHING—Prize winning White and Columbian, White Holland Turkeys, and White Guineas. Z. KINNE, Three Oaks, Mich.

White Leghorns—Rose or single comb cock.
per 15. Ray J. Graham, R. F. D. No. 1, Flint, Mich.

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

RGGS: EGGS: EGGS-White & Buff Orpington, White & Barred Rocks, Black & White Minorcas, White & Buff Leghorns, Rose & Single Comb Reds, Houdans & White Crested Blk Polish. H. H. King, Willis, Mich,

THOROUGHBRED S. C. BROWN LEGHORN Eggs at \$1.00 per 15 or \$5,00 per 100. Stock all sold. LEWIS T. OPPENLANDER, R. No. 4, Lansing, Mich.

Eggs—Light Brahma, White Wyandotte and Barred Rocks. \$1 a setting, \$1.50 for two settings. E. D. BISHOP. Route 38. Lake Odessa, Michigan.

R. C. B. Leghorn Cockerels—Kulp strain, the best there is, \$1 to \$3. Eggs in season. C. W. WAITE, Gobleville, Michigan.

SINGLE COMB BLACK MINORCAS—A few more pull-\$1.50 per setting. R. W. MILLS, Saline, Michigan. SILVER, GOLDEN and WHITE WYANDOTTES. Eggs \$1.50 per 15: \$2.50 per 30. A few White Roosters

FOR SALE—S. C. and R. C. Rhode Island Red Eggs. 15 for \$1.00; 50 for \$2.75; 100 for \$5. BUELL BROS., Ann Arbor, Mich

WHITE WYANDOTTES—Useful and beautiful. The kind that weighs, lays and pays. A. FRANKLIN SMITH, Ann Arbor, Mich.

DOGS.

NOW WRITE W. J. ROSS. Rochester, Mich., for those beautiful sable and white and tricolor Collie Pupples. Finest breeding, natural workers.

Twenty-five Hound Pups. All bred from the best of trained Coon hunting parents, send stamp. W. E. LECKY, Holmesville, Ohio

When writing to advertisers please mention the Michigan Farmer.



thrum, as some of the other kinds are season. It is perfectly hardy, withstandrather strong for young chicks, especially both hens and chicks with the powder.

Loss of Feathers Indicative of Insect Pests.

ing the severest winters without freezing those that smell like moth balls. If the back. Mr. West considers it one of the chicks are with hens treat the coops as best climbers for screening porches, or advised for the brooder and at night dust old walls or fences. It is a very rapid The crate is divided into three compartgrower, often attaining the height of 20 ments, each holding from four to six feet. The vine blossoms in June and is birds, according to the size of the chickquite a floral curiosity, bearing beneath While the fowls of R. D. S., of Vir- its heavy screen of large leaves thousands 11/2 in. wide by 5/8 in. thick-laths will ginia, may require more exercise, as Dr. of peculiar pipe-shaped flowers of a yel- answer. Those in front are placed 2 in. Fair recommends, I suggest that a careful lowish brown color, each nearly two search be made for the large grey head inches in length. The leaves hold their heads through for feeding. The slats lice. When these are present the hens dark green color until late in the fall, on the bottom are placed ¾ in. apart to will scratch their heads and pick at the thus making it a very desirable vine allow the droppings to go through. Care neck feathers. Often, especially when where a dense cooling shade is wanted, should be taken not to have the first botconfined, the irritation leads to the habit It grows vigorously almost anywhere. The of feather eating, although this habit is specimen shown was grown by our corof feather eating, although this habit is specimen shown was grown by our corticle and sometimes contracted through idleness respondent, and when the picture was decompose. The slats on the bottom alone. In either case the following will taken in—mid-summer—it completely covshould be 1 in. by ½ in. and run length-he found beneficial: Melt some lard and ered a trellis eight feet high and twelve wise of the crate. The slats on the back add one-fourth as much kerosene. Stir feet long.

## The Michigan Farmer

ESTABLISHED 1843.

### THE LAWRENCE PUBLISHING CO., EDITORS AND PROPRIETORS.

39 to 45 Congress Street West, Detroit, Michigan.

TRLEPHONE MAIN 4525.

NEW YORK OFFICE—41 Park Row.

DEICASO OFFICE—60 First Nat'l. Bank Building.

DEICASO OFFICE—1011-1015 Oregon Avs., N. E.

GRAND RAPIDS OFFICE—5 & 6 New Hawkins Building.

President.
Vice-President.
Sec.-Treas. I. R. WATERBURY...
O. E. YOUNG...
BURT WERMUTH....
ALTA LAWSON LITTELL...

E. H. HOUGHTON.....Business Manager

### TERMS OF SUBSCRIPTION:

Five Years 260 Copies Postpald Three Years, 156 Copies, Postpaid .....\$2.00

Always send money by draft, postoffice money order, sgistered letter or by express. We will not be reponsible for money sent in letters. Address all conunications to, and make all drafts, checks and post-ffice orders payable to, the Lawrence Publishing Oc.

### RATES OF ADVERTISING:

ents per line agate measurement, or \$5.60 per each insertion, with reasonable discount on a mounting to \$20 or over. No adv't inserted so than \$1.20 per insertion. No lottery, quack doctor or swindling adversable per the service of the service of

COPYRIGHT 1911

by the Lawrence Pub. Co. All persons are warned against reprinting any portion of the contents of this issue without our written permission.

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

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

The Lawrence Pub. Co., Detroit, Mich.

### DETROIT, JULY 8, 1911.

CURRENT COMMENT.

Propaganda. carrying

the Post Office Department, the ancates of one-cent letter postage to instirate on first-class mail matter to one of penny postage for letters are organized and ready for an active campaign. Their organization is known as the National One-cent Letter Postage Association, with headquarters at Cleveland, O., and already they have begun a publicity campaign with a view of creating a strong popular demand for one-cent letter postage which would be heeded by

At first thought the idea of one-cent one to the average man, but upon careful analysis and mature consideration we do not believe it will prove an attractive must be remembered that while our post office as an institution is not run for has been an annual deficit that had to is impossible to predict at this time. Re-be made good through an appropriation liable advices would indicate, however, by congress. This year, for the first that a determined effort will be made to was propagated from grain found in the solved the "fiber and manila association," The former club has been organand straightway there arises a demand for cheaper letter postage, which would again create a deficit which would have to be met with funds derived from some source. Already there has been a proposal, which had the approval of the Postmaster General, to increase the postage on second-class matter from one to four cents per pound, the claim being made by the Department that secondclass mail is now carried at a loss, although it is incomprehensible to the layman just how the relative cost of carrying different classes of mail could be eral reduction of tariff schedules. How- warning against all schemes whose sole ascertained with a degree of accuracy

and carried in the same conveyances. being investigated by a congresional committee at the present time, and a commission appointed by the President will begin sittings in New York this month collected on the subject by the Post of hearings to interested parties who desire to be heard.

Now the facts are, that whatever may be the result of the inquiries above referred to, the reduction of letter postage to one cent per ounce would principally benefit the big business interests in the large cities, which interests now contribute far more heavily to this department of the postal service than the aggregate of all the private citizens of the country, both urban and rural. Obviously, if they are relieved of this support to the postal system, someone must make up the deficit, and this would most likely be accomplished by an increase of the present rate on second-class matter, an increase which would necessarily be passed on to the public by the publishers of papers and periodicals in increased subscription rates. Thus the cost of maintaining the postal service would be much heavier on the average rural resident than at present, unless he accepted the alternative of curtailing his reading matter.

But there is another and still broader reason why the average rural resident should not favor this idea upon serious reflection. Each recurring census shows an increase in urban population, and a decrease in rural population, which marks an ever increasing concentration of business in the centers of population. One reason for this already too great concentration of business is the facility which the postal service affords the city man for reaching out to all parts of the country to secure business. The cost of our postal service is not based on distance. The city business man can reach any point in the country for two cents, or just as cheaply as he can reach any person in his own city through the same This is an advantage of which the city business interests now take such general cognizance that they furnish the great bulk of the first-class mail matter. After an investiga- If they are relieved of one-half of the tion into the cost of charge now made for this service, the different largest percentage of the charge from classes of mail mat- which they would be so relieved by the ter, which was conducted by officials of granting of a penny letter postage rate would of necessity be saddled onto the nouncement was made by government people of the small towns and the rural authorities that the profit to the govern- districts, whose saving in letter postage ment on the carrying of first-class mail would be small in comparison to this inaggregates \$60,000,000 per annum. This creased burden which would surely fall on announcement has stimulated the advo- them in increased cost of the second-class mail matter which they receive, to say tute a campaign for the reduction of the nothing of the further advantage which would be given to the big cities in a cent an ounce. These leading advocates business way, and further concentration of business will inevitably further increase the cost of distribution to the detriment of producer and consumer alike. This, then, is a proposition upon which the country resident should think carefully, before committing himself to the penny postage propaganda.

> As noted in our com-The Senate Tangle. ment of last week the situation in the

letter postage will prove an attractive United States senate, relating to the consideration of the reciprocity pact, has become somewhat tangled. So far as indicated by reports from the scene of action little progress has been made to crop of victims ready for the harvest proposition to the average Michigan tion little progress has been made to Farmer reader. In the first place, it date in ironing out the differences which exist and, of course, little progress could be expected until after the adjournment duct these operations. This season the profit, but to serve the people of the for the great national holiday. Just what scheme appears to have been varied by country in facilitating communication compromise may be reached regarding adding the feature of antiquity to that of country in facilitating constituting information, yet the cost the fixing of a date for a vote on the romance and the other factors which of that service must in some manner be reciprocity bill and the other two bills have enhanced the allurement of other ment against the "eastern box board upon which it is expected the senate will similar schemes. A report comes from club," which is declared to be an organiment has not paid its expenses, and there be obliged to act, as noted last week, it washington that a new strain of "Egyptian" wheat is being offered in various the fixing of a date for a vote on the romance and the other factors which in an action by the federal government against the "eastern box board club," which is declared to be an organiment has not paid its expenses, and there is impossible to predict at this time. Reand distributing information, yet the cost the fixing of a date for a vote on the particulars, such as the placing of flour, cured and canned meats, manufactured lumber and a few other commodities on the same basis as the raw material from which they are produced, so as to reduce the measure of injustice which would be their claims that the germ in a grain of done to American agriculture through the workings of this pact. It is intimated riod than ten years, and that wheat canthat this may be done through the combined influence of certain republican sen- it has been kept for a period of ten years ators who are strenuously opposed to the or longer. There should be little need of bill as it now stands and other members a warning to thinking farmers against of the senate who are in favor of a gen- a scheme of this kind, but a general

when all are handled by the same people continue to oppose all amendments to the ers would not be out of place. It is a bill, and the outcome will doubtless de-But, however this may be, the subject is pend to a large degree on the policy other fields for their labors, and it is a which the democratic leaders may pursue with regard to forcing the consideration of the wool tariff and the general army of promotion sharks do the urban for the purpose of going over the data tariff bill which they have prepared. This communities. would indicate that the tangle will not be Office Department and for the granting straightened out at once, and that the Refuse to Accept Unthe Michigan general business of the country will continue to suffer from the uncertainty of the situation for an indefinite period.

> Of all men, the farmer Optimism vs. should be an optimist, not Pessimism. alone because his present happiness demands it. but

as well for the reason that, as a general proposition, dame nature is more than likely to reward his labors more liberally than he could believe, if of a pessimistic frame of mind. Truly, it takes some strength of character to be an optimist under unfavorable conditions. When the spring rains are interfering with the planting and cultivating of crops, as they did in spots in Michigan this season, it is difficult to accept the situation with good grace, especially where the outlook for some of the main crops is made dubious at the outset. In like manner, it takes a still stronger character to remain wholly cheerful when the midsummer sun and the hot winds are sapping the last of the reserve of moisture in the soil in localities which were missed by the local showers which caused the absence of the usual spring rains to pass unnoticed in other sections of the state. But this is not the first season when the season's prospects were threatened by flood or drought or other unfavorable conditions in the particular locality in which any one of us may live, nor is it likely to be the last. A pessimistic view of the situation will not change the conditions, for it is a condition and not a theory with which we have to deal. The only apparent effect of harboring pessimistic thoughts will be upon ourselves, but that effect will be marked. It will make us and those about us needlessly miserable, and will, in a measure, at least, unfit us for the duties which lie at our hand, and mayhap to a degree which give the public a square deal will send will spell ultimate failure, where the cultivation of an optimistic temperament might have won us success. The things which we cannot control had far better be accepted gracefully and without needdiscomfort on our part. Quite generally the "silver lining" of the "clouds" which cast their unwelcome shadows o'er life's pathway is brighter than was anticipated, often making but a shadow of the memory of the cause of many miserable hours or days, which might have been made more cheerful through the cultivation of the virtue of optimism. For optimism may be properly termed a virtue, while pessimism is a disease which is infectious in malignant cases, and which should be avoided by every healthful mind.

Almost every year there The Improved is a new swindle devel-Seed Shark. oped for the purpose of

form of some new and wonderful variety of grain which, it is represented, will prove enormously profitable. Notwithstanding the lessons which have been afforded the public in "Bohemian oats," "Red line" and "Alaska" wheat and other similar schemes which might be mentioned, there always seem to be a new when a new scheme of this kind is developed by the class of "sharks" who con-Department of Agriculture is issuing a warning against the people who are trying to palm off such claims on the American farmers, it being declared by the officials by way of proof of the falsity of wheat will not survive for a longer penot be successfully used for seed after it ever, it is certain that the President will aim is to get easy money from the farm-

good plan to let this class of sharks seek matter for congratulation that they do not as a class find the rural communities tion of their bill providing for a reduc- as susceptible to their game, as the great

desired Papers.

Farmer are receiving so many

inquiries from people who are receiving bills for papers which they never ordered or which have been sent to them beyond the time subscribed for, that we have deemed it advisable to address a word to our readers on this subject. The best thing to do in such a case is to notify the postmaster or rural carrier that you do not want the paper, and then refuse to accept further copies of it from the post office or from the rural mail box. Then the postmaster will notify the publishers that the paper remains uncalled for at the office and that unless it is stopped further issues sent will be destroyed. This constitutes legal notice to the publishers, and no further bills for subscription would have any standing if an attempt were made to collect them in a court of law. As a matter of fact, such bills are rarely pressed to the point of bringing suit, although there is a legal responsibility on the part of the actual subscriber for one year beyond the time subscribed for if the publications are taken from the post office or accepted from the rural carriers. The publishers, however, are not allowed to send their publications for more than one year to any person whose subscription is not paid, for which reason no publisher will be likely to attempt to collect a back subscription for a longer period of time

The best policy to pursue is to refuse to subscribe for any publication, the publishers of which do not agree to stop on the expiration of the time subscribed for. The Michigan Farmer publishes in each issue a guarantee to stop the paper upon the experiation of the subscription, and no reputable publisher who desires to his publication after the subscriber's time has expired and then annoy him with bills which the recipient is under no

moral obligation to pay.

## HAPPENINGS OF THE WEEK.

National.

National.

Last Sunday the thermometer reached 90 degrees upon the roof of the Majestic building, Detroit, while upon the streets the mercury raised to the 111 mark. According to the figures of the weather bureau, it was the hottest day in 20 years. On July 17, 1887, the official record was 101 and on August 12, 1881, it was 99. In Pittsburg the day was the hottest that city had experienced in 10 years. In Chicago the official temperature was taken at 100 and five deaths are known to have resulted from the heat in that place.

The movement of grain and stock for the country for the month of May ex-ceeded the record shipments during the same month for 1910 and 1909, from the figures published by the bureau of sta-

getting easy money from President Taft speaks this week to Quite often this takes the three audiences in Indiana upon currency new and wonderful variety reform, arbitration and reciprocity.

reform, arbitration and reciprocity.

The second division of the North Atlantic squadron of the American navy left Kiel, Germany, where the officers and men have been enjoying the hospitality of that country, and will return home by the north of Scotland route, an unusual course for American naval vessels.

President Taft has given orders for the removal of several regiments from the Mexican border, leaving only enough soldiers to meet any emergencies that might arise in the adjustment of matters with the new administration.

A shipment of 1,600 tons of uncolored tea arrived at Puget Sound last week, which is the largest cargo of the season. The product is of this season's crop.

In an action by the federal govern-

ized since the latter was dissolve

ized since the latter was dissolved and many of the same parties are connected with both concerns.

The Illinois Humane Society at Alton, Illinois, has adopted resolutions favoring the abolishment of the two-deck stock car for shipping live calves.

Exports of hog products from this country have increased to 22,743,000 lbs., compared with 12,290,000 lbs. a year ago, the largest gains being in lard and bacon.

In the annual eight-ored 'versity reco

In the annual eight-ored 'varsity race between Harvard and Yale the crew of the former institution showed their superiority by winning at the end of the four-mile course with 14 lengths between the boats of the competing crews. In the contest between crews from Cornell, Columbia, Pennsylvania, Wisconsin and Sy-

racuse the men representing the first-named institution were declared the win-ners at the meet at Poughkeepsie, N. Y., this feature of the programs. The musi-

The federal government through her district attorney has brought suit against what is termed the "magazine trust" asking its dissolution as an organization

asking its dissolution as an organization in restraint of trade.

The official figures of the bureau of statistics shows that the United States produces more cotton than any other country of the world, her production of this crop amounting to 9,585,500,000 lbs. and valued at \$1,250,000,000. India is her closest competitor.

The federal supreme court have advised the district courts to see that the Ameri-

the district courts to see that the American tobacco trust is dissolved, the thirty days in which the defendant company was permitted to ask for a rehearing having a variety.

was permitted to ask for a rehearing having expired.

The federal grand jury investigating the steel trust have returned indictments against a number of subsidiary companies and persons connected with that concern but not against the company itself.

In Chicago 14 lumbermen were indicted by a federal grand jury who are trying to determine whether the Sherman antitrust law had been violated by a combination of lumbermen in restraining trade. Edward Hines, president of a lumber company of Chicago, testified before the senate committee that President Taft urged the election of Senator Lorimer to that body. The testimony was answered by a denial from the White House. Four men were killed by the falling of the walls of the new water works station at Buffalo.

Foreign.

Foreign.

A severe battle took place near Oporto, Portugal, between the republicans and monarchists last week. Already the government has sent 47,000 troops to the frontier to protect the country against organized forces entering from Spain.

Unless Spain and France withdraw from the present invasion of Morocco, Germany will insist upon her right to camp troops in that part of Africa to be ready to take a slice of the country should it be partitioned off between the nations. Spain and France are not pleased because of the stand taken by their neighbor, but it is generally believed that any other move would be less likely to bring about it is generally believed that any other move would be less likely to bring about as speedy a settlement of affairs.

The new administration in Mexico is evincing some animosity toward American interests, according to the settlement of the settlem

interests, according to reports, and demonstrations have been made, together with protests to the government looking to the elimination of monopolistic interests, chiefly those with which Americans are connected.

Election riots at Kalusz, eastern Galicia, resulted in 200 persons being injured. It became necessary to call out troops. Farm buildings, lines of communication and other damage resulted from the out-

break.

Chinese attacked and drove back the Russians from the frontier post of the Amur river district, destroying Russian signs and navigation buoys along the Amur and Ussuri rivers.

It is announced that the Canadian Pacific will absorb the Erie railroad and thereby complete connections for direct service to New York city.

## FARMERS' CLUBS

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

President—B. A. Holden, Wixom.
Vice-Pres., J. D. Leland, Corunna.
Secretary—Mrs. C. P. Johnson, Metamora.
Treasurer—Mrs. Lewis Sackett, Eckford.
Directors—A. R. Palmer, Jackson; Wm.
H. Marks, Fair Haven; C. L. Wright,
Caro; E. W. Woodruff, Blanchard; C. P.
Johnson, Metamora; Patrick Hankerd,
Munith.

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

Associational Motto.-

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

Associational Sentiment.-

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

## YEARLY PROGRAMS.

The Washington Center Farmers' Club. This Gratiot County Club has a most attractively arranged program. The cover page, aside from the name of the Club and the date, presents the Associational Motto and Sentiment, together with the announcement that the regular meetings are held on the second Thursday of each month. Each succeeding page contains the program for a single monthly meeting, while the back cover is devoted to a list of the officers and committees for the current year. The farms of the members are named and the farm name appears, together with that of the host and hostess at the head of each program. The order of business is repeated in each case, making each program complete in itself without reference to any other page

this feature of the programs. The musi-The "public utilities" bill which has been before the Connecticut legislature for the past four years was passed by both houses of that body last week after a long fight.

The "public utilities" bill which has cal and literary numbers of the programs are also announced for each meeting, making the program complete in this respect. Two or more questions of a respect. Two or more questions of a practical or educational nature are provided for each meeting. In many cases these are arranged with special relation to the season, as the January program, for which meeting the first discussion deals with methods of improving the Club and its work and of getting the young people interested in the work by placing more of the responsibility for its conduct upon them. The special feature meetings solo, in pantomime.

Solo, in pantomime.

Which would probably be the best investment, a hay-tedder, a manure spreader, or an acetylene gas plant?

What would be the comparative advantages of a set of reading-course books, and a baseball and bat?

All-day meetings are held from January to April, inclusive, and from October to December, inclusive, the mid-summer meetings being called at 1:30 p. m. Altogether this is one of the most complete gether this is one of the most complete of the yearly programs which have been

Children's Day Meeting.—The Hadley and Elba Farmers' Club, of Lapeer Co., held their Annual Children's Day meeting at The Maples, June 15, with Mr. and Mrs. H. P. Kelley. The roll call response, "Children's Sayings," proved very amusing. The program furnished by the children consisting of recitations, vocal and instrumental music, etc., elicited hearty applause. This was our second children's meeting which is already considered one of the strong features of the Club. About 90 people enjoyed the program and sumptuous tea on the spacious lawn and are anxiously waiting for the Children's Day of 1912. The next meeting will be Pioneer Day, July 4, at the Hadley Town Hall. Much enthusiasm is shown and a great meeting is expected.—Mrs. C. P. Johnson, Secretary.

Honor a Pioneer Member.—The rain on the morning of June 17 did not prevent the gathering of 75 members for the monthly meeting of the Ingham County Farmers' Club. It was about two o'clock the proposition of the Market Club. monthly meeting of the Ingham County Farmers' Club. It was about two o'clock when the vice-president, Mrs. Horton, called the meeting to order. In part she said: "We have the distinction of being the oldest Club in the state and of the faithful few who organized better than they knew, two of the charter members are still living and both with us today—Col. Ives, our president, and Judge Bristol. As President Ives has recently brought into our ranks as an active member one who has long been an honorary member, I will ask Judge Bristol to extend a few words of greeting to Mr. and Mrs. Ives. Judge Bristol, in a pleasing way, extended our best wishes and presented to them, from the Club, a beautiful brass jardiniere and a graceful fern, symbols of strength, endurance and growth. In response Mrs. Iyes said she was reminded of a person looking every where for a four-leaved clover and coming home found it at her door, and hoped to always have as shining a countenance and bright as the brass.

A Community Picnic Planned.—President Ives took the chair and said it was

to always have as shining a countenance and bright as the brass.

A Community Picnic Planned.—President ives took the chair and said it was not necessary for any such token to know that the Farmers' Club was loyal, but appreciated it just the same, and as a starter for the afternoon he would give Rev. Simmons a chance to talk about the community picnic. He believed in picnics. The more we know people, the more we love them and appreciate their true worth. Rev. Simmons explained the project, that we have our churches, our fraternal organizations and our Clubs, each doing its work; but his idea was to have one day when they would all meet together and get better acquainted and know more what the other is doing. We get busy with our own cares and neglect the community. Judge Wiest was called out and said this was the third meeting of the Club that he had attended at Mr. Russell's, that he approved of picnics and enjoyed a good dinner. He often had picnics at his farm and any gathering where the ministers, the lawyers, the merchants, the farmers or followers of any vocation were gathered together were helpful. Messrs. Jewett, Webb, Barber and others approved of the picnic, when a resolution was presented and adopted that the Farmers' Club approve of a community picnic and that a committee of four ladies and four gentlemen be appointed to work with other committees to make plans.

Why Fruit Trees Should be Sprayed.—

pointed to work with other committees to make plans.

Why Fruit Trees Should be Sprayed.—
Julius W. Chapin gave an interesting talk on "Why we spray our fruit trees."
He said the pests that we are fighting are of two classes—the fungus and insect. The fungus diseases are the growths on decayed matter, the yeast that produces decayed matter, the yeast that produces moid, the blight that attacks potatoes, beans, cucumbers and berries. The insect pests are divided into three classes—the scraping, sucking and chewing, and some of the worst pests to fight are those that come from some other county, like the San Jose scale. He spoke of the state law that one cannot spray when fruit trees are in blossom, and by telling the different preparations for the different diseases he showed his familiarity with the subject. The next meeting will be August 12, with Mr. and Mrs. F. H. McCormick, at Mulberry Lawn Farm, and will be young people's day.—Mrs. Tanswell, Cor. Sec.

## GRANGE

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

### THE JULY PROGRAMS.

Suggestions for Second Meeting. (Men's Part).

What is the best tool I use?
Which would be more profitable, a ridng plow or a vacuum cleaner?

Solo, in pantomime

(Women's Part).

Duet. of the yearly programs which have been received from any of the local Clubs for the current year, and should prove of great value to the Club and its members.

CLUB DISCUSSIONS.

Duet.

Selections unfit girls for farm life? Selections from the best woman's paper or magazine I know.

What is the best drink to send to the field with lunch on a hot day?

What constitutes good and bad manners at the telephone?

Illustrated reading.

This duty takes three forms.

1. The Grange, as a whole, must be active in discussing and selecting such and methods as will fit rural schools to meet the needs of country peo-It must not leave the proposing and installing of such studies and methods to the school profession alone, but should co-operate with teachers and students of educational systems to work out the best possible plans for present-day rural needs.

Each subordinate Grange ought to be worthy of recognition as the best instrument through which schools of its neighborhood may appeal to their patrons. Here, in the forum of the local Grange, should be promoted plans that will make each school a strong factor in the life of its district and of its pupils. Here should be cultivated a sentiment

may be described as follows: Several weeks ago the senate passed the resolution which calls for the required amendment to the federal constitution, that action marking the successful culmination of an effort that has extended over more than a quarter of a century to bring this question before the state legislatures. The resolution passed the senate by a vote of 64 to 24, two-thirds of those present, or 59, being necessary to carry the proposi-

The resolution as adopted, however, carried with it the so-called Bristow

amendment which necessitates its return to the house of representatives, which had already passed it. If the house acts favorably upon the resolution in its amended form, which seems likely, it will go to the states for ratification as an amendment to the United States constitution.

The Bristow amendment aims to retain in the federal government power to prescribe the manner, time and place of holding elections for United States sen-The southerners opposed the amendment on the ground that it would give the federal government power to interfere with the so-called grandfathers' clauses in the constitutions of the southern states. The vote on the Bristow amendment was a tie, 44 to 44, and Vice-President Sherman cast the vote which tacked the amendment to the resolution.

### AMONG THE LIVE GRANGES.

Ironton Grange, of Charlevoix Co., had an attendance of 65 at its regular meet-Duet.

Does education unfit girls for farm life?

Selections from the best woman's paser or magazine I know.

What is the best drink to send to the leid with lunch on a hot day?

What constitutes good and bad maners at the telephone?

Illustrated reading.

(Good Things to Eat).

Custards (with samples) served by five women.

Wafers (with samples) served by five same.

women.

Wafers (with samples) served by five men.

Rathbone Grange, of Gratiot Co., met June 20 with a good attendance. Mrs. Youry reported that the proceeds from the social held two weeks ago were \$8.15. Bert Stowe and wife were then given the third and fourth degrees. Motion made and seconded that we take up a collection for Sister Elsie Smith, of Jacown members, is toward rural schools.

made and seconded that we take up a collection for Sister Elsie Smith, of Jacob's Grange. Proceeds \$2.40. Our secretary was instructed to order a car of coal. Next meeting will not be held until July 18. Lecturer's hour was taken up. Roll call responded to with readings. Penny march receipts 17 cents.

The Picnic Program carried out by Hesperia Grange recently was one which should commend itself to Granges at this season. Every Grange in the state should endeavor to have at least one such meeting during July or August. A leading feature of the event was an excellent picnic dinner in the woods at Elm bridge. The program consisted of wading in the river by the children, bathing by the small boys, old-fashioned visiting by the older members who also greatly enjoyed the natural beauty of the spot selected for the picnic, especially the beautiful river hurrying on its way to the great lakes. Like all fleeting pleasures the day ended all too soon but the occasion was so thoroughly enjoyed that this Grange is planning to hold another such meeting before the end of the picnic season.

A Real Holiday Meeting.—At least once a year the members of Chesterfield

will make each school a strong factor in the life of its district and of its pupils. The life of its district and of its pupils. The life of its district and of its pupils. The life of its district and of its pupils. The life of its district and of its pupils. The life of its district and of its pupils. The life of its district and of its pupils. The life of its district and of its pupils. The life of its district and of its pupils. The life of the life of its district and life of the life of its district and the life of its district and the life of its district and life of the life of its dis

## COMING EVENTS.

Pomona Meetings.

Clinton Co., with Elsie Grange, Wednesday, July 12.
Lenawee Co., with Gorman Grange Thursday, Aug. 3. Annual Grange rafly.
Gratiot Co., with Arcadia Grange, Saturday, Aug. 5. Miss Jennie Buell, state speaker.

Speaker.
Charlevoix Co., with Boyne River Grange, Thursday, Aug. 10.
Kent Co., farmers' annual picnic, at John Ball park, Wednesday, Aug. 16.
Former State Master Horton, state speaker.

## **MARKETS**

DETROIT WHOLESALE MARKET.

July 5, 1911. Grain and Seeds.

Grain and Seeds.

Wheat.—There is bullish sentiment creeping into the trade and will continue to do so so long as the weather is dry and hot, for such conditions are sure to reduce the yield of the growing crop. Much of the winter wheat belt is beyond being damaged and harvesting is under way over the greater portion of the region. But the spring wheat is where it can be reduced in value by hot dry winds, and continuation of present weather will fill the bears with fear. Futures have been showing strength and quotations have advanced but cash goods are quiet and unchanged. Liverpool are quiet and unchanged. Liverpool prices are higher. No. 2 red wheat was quoted at \$1.03 per bu. a year ago. Quotations for the past week are:

No. 2 No. 1

Red. White. July. Sept.

Thursday 88 87 90 1/4
Friday 87 86 1/2 91 1/4
Saturday 88 86 1/2 91 1/2
Monday
Tuesday 88 86 1/2 92 1/2
Wednesday 88 86 1/2 92 1/2 .961/2

Wednesday ... 88 80% 92% 90%

Corn.—This deal is stronger with a short crop promised because of the lack of moisture over the corn belt. The extra call that is sure to come from the shortage of the oat and hay crop will increase the demand for corn to fatten stock and carry it along. It behoves increase the demand for corn stock and carry it along. It behooves farmers who have any sort of a stand of corn to do their part in bringing it through. One year ago the price for No. 3 corn was 62% c per bu. Quotations are:

No. 3

Corn.

Yellow.

60

No. 3 No. 3 No. 3 Section Yellow. Corn. Yellow. Thursday 58 60 Friday 59½ 60½ Saturday 59¾ 61 Monday 79½ 61¾ 63 Monday 61¾ 63 Monday 61¾ 63 Oats.—From the advanced position taken a week ago further additions have been made to oat quotations and the condition of the crop at present seems to warrant the prophecy that quotations will continue to go upward for there is now a shortage of oats on hand and the failure of the crop in many sections and the light yield that is sure to result from the harvests in almost all others, will so reduce the supply as to make high prices the only alternative. One year ago the price was 4½c below what it is now. Quotations for the past week are:

Standard No. 3 White.

Thursday 44½ 44

Friday 45 44

| Cash. | Thursday | \$2.03 | Friday | 2.15 | Saturday | 2.20 | Monday | ... | Wednesday | 2.22 | 2.05

Cloverseed.—There is nothing doing in this trade. Traders are only watching the growing crop. The nominal quotations are ruling the same as a week ago.

They are:

Prime.

Thursday \$9.50

Friday 9.50

Saturday 9.50

Monday

Tuesday

Wednesday 9.75 8.75 9.00

Flour, Feed, Provisions, Etc. Flour.—Market is slow with prices steady. Quotations are:

mess pork, \$16.50; medium clear, \$16017; smoked hams, 15½@16½c; briskets, 10½@11½c; shoulders, 10½c; picnic hams, 9½c; bacon, 15@16½c; pure lard in tierces, 9c; kettle rendered lard, 9¾c per b

Dairy and Poultry Products.

Dairy and Poultry Products.

Butter.—Trade continues active. The demand is good and the supply ample. Prices unchanged. Quotations are: Extra creamery, 23c; firsts, do, 21c; dairy, 16c; packing stock, 15c per lb.

Eggs.—The advanced quotation of last week has been succeeded by another rise of a half cent, due to shorter supply and continued demand. The supply of good eggs is shrinking. Mærket is active. Fresh eggs, case count, cases included, are quoted at 14½c per dozen.

Poultry.—This deal has been a little firmer and prices are a little higher, but with brollers down 4 cents in Chicago. Quotations are: Live—Hens, 12@13c; old

## THE MICHIGAN FARMER.

roosters, 8@10c; turkeys, 14@16c; geese, 8@9c; ducks, 12@13c; broilers, 20@22c per lb.

Cheese.—Michigan, old, 15@17c; Michi-

Cheese.—Michigan, old, 15@17c; Michigan, late, 12½@14c; York state, new, 13½@14c; Swiss domestic block, 16@18c; cream brick, 13@14c.

Veal.—Market lower. Fancy, 9½@10c; choice, 8@9c per lb.

Fruits and Vegetables.

Cabbage.—Steady. Selling at \$2.75@3 per crate for new.

Strawberries.—Lower. Receipts light. Michigan grown are selling at \$3@3.50 per bu.

pineapples.—\$3.25@3.75 per case.
Cherries.—Large supply. Lower, sour,
50@75c per 16-qt. case.
Raspberries.—Red, \$5@5.50 per bu.;
black plentiful and selling at \$1@1.25 per
16-qt. case.

i-qt. case. Huckleberries.—\$3.50@4 per bu. Gooseberries.—Steady. Selling at \$2@

2.50 per bu.

Apples.—Very little old fruit in the market. New quoted at \$1.50@2 per box.

## OTHER MARKETS.

Grand Rapids.

Grand Rapids.

The hot weather continues to hurry things along and raspberries will soon supplant cherries in the market. Sour cherries are bringing \$2 to \$2.50 and sweets are nearly all gone. Red raspeberries are scarce, readily bringing \$1.50 per crate, while the price for blackcaps ranges around \$1.25. The egg market is steady at 15 cents to the country trade, dairy butter 18 cents. Beans are higher, the price to farmers for white pea being on a \$2 basis, while red kidneys are worth \$3.60. The mills are paying the following prices for grain: No. 2 red wheat \$3c, oats 45c, rye 69c and corn 60c. Dressed hogs are selling at 7c, fowls, live, at 10c.

### Chicago.

July 3, 1911. 

Series are nearly at your local reasons before a series of the person of

Almost impossible to sell these common milkers and springs by the dollar for any-kind of satisfactory price. Have to be sold by the pound.

Owing to light receipts and urgent demand, our hog market opened active and prices generally 15 to 20 cents higher than the close of last week. The bulk of the yorkers, mixed and mediums sold at \$7.20, with a few decks selected to local packers at \$7.25. Pigs sold generally at 7 cents per pound, and good quality rough sows mostly 6 cents per pound. While we think the prospects fair for the near future, we do not think it advisable to become too bullish on these sharp advances. Use caution in loading during this hot weather.

The lamb and yearling market opened active today, and sheep strong. The most of the choice spring lambs selling from \$7.25@7.50; few \$7.75; yearling lambs of the choice spring lambs selling lambs, \$5.00@5.50. Few choice handy wethers selling \$4.25@4.85. Prospects steady for sheep the balance of the week. We quote:

Best spring lambs, \$7.25@7.75; wethers, \$4.50@4.75; cull sheep, \$1.50@3.00; bucks, \$2.50@2.75; yearling lambs, \$5.00@5.50; fair to good do, \$7.00@8.00; heavy ewes, \$3.25@2.50; veals, choice to extra, \$8.25@8.50; fair to good do, \$7.00@8.00; heavy even calves, \$3.50@4.50.

Chicago. a year ago and tenderloins two cents lower than then.

Sheep and lambs had a wonderful change for the better last week, with fat spring lambs of light weight the prime favorites and undergoing a regular boom. The approach of the Fourth of July caused the biggest kind of a demand for choice lambs, and fed lambs and light yearlings on the lamb order shared in the upward movement, although in a lesser degree than fat springs. The packers' receipts of springs from Louisville have been decreasing in volume steadily, and before long these supplies will be cut off, making a better show for supplies from other sections. Wethers and ewes comprise but a small share of the offerings, but they meet with a very poor demand, even at the large discount in prices from those paid for lambs. The demand for feeders has been below expectations, and prices have ruled very low.

pectations, and prices have ruled very low.

Horses that graded well started into life last week, and a number of sales looked \$10 to \$15 per head higher than a week earlier, the announcement that no public auctions would be held during Fourth of July week bringing in more buyers than usual. While there was a larger percentage of good horses than in recent weeks, there was a great scarcity of high-grade drafters and drivers, and few horses sold as high as \$260. Numerous medium grade drafters sold at \$155@190, while better ones found buyers at \$200@260, and there was a good sale of horses adapted for drivers and expressers at \$135@170, poorer ones pringing \$125 and under.

### 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 edition Friday morning. The first edition is mailed to those who care more to get the paper early than they do for Thursday's Detroit Live Stock market report. You may have any edition desired. Subscribers may change from one edition to another by dropping us a card to that effect.

### DETROIT LIVE STOCK MARKETS.

### DETROIT LIVE STOCK MARKETS

Thursday's Market

July 6, 1911.

Thursday's Market.

Cattle.

Receipts, 399. Butchers' grades 10 to 15c higher; good grades steady.

We quote extra dry-fed steers and heifers, \$5.50@5.75; steers and heifers, \$5.50@5.75; steers and heifers, 800 to 1,200, \$5.00@5.50; grass steers and heifers that are fat, 800 to 1,000, \$4.25@5.00; grass steers and heifers that are fat, 800 to 1,000, \$4.25@5.00; grass steers and heifers that are fat, 500 to 700, \$3.50@4.25; choice fat cows, \$4.00@4.25; good fat cows, \$3.25@3.75; stoek of the fat cows, \$4.00@4.25; good fat cows, \$3.25@3.75; stoek bulls, \$3.00@3.25; choice feeding steers, 800 to 1,000, \$4.00@4.75; fair feeding steers, 800 to 1,000, \$4.00@4.75; fair feeding steers, 800 to 1,000, \$4.00@4.55; fair stockers, 500 to 700, \$3.25@3.75; stock heifers, \$3.00@3.50; milkers, large, young medium age, \$40.00@55.00; common milkers, \$25.00@35.00.

Bishop, B. & H. sold Mich. Beef Co 22 lambs av 68 at \$7.00; to Sullivan P. Co. 4 do av 78 at \$7.00; to Sullivan P. Co. 4 do av 78 at \$3.00; to Fitzpatrick Bros. 24 lambs av 70 at \$4.50, 20 do av 58 at \$7.00, 22 yearlings av 90 at \$5.00, 5 sheep av 100 at \$3.00, 16 do av 110 at \$3.25, 8 do av 115 at \$3.50; to Mich. Beef Co. 44 lambs av 71 at \$7.40; to Fitzpatrick Bros. 47 do av 77 at \$7.40.

B. Taggart sold Sullivan 19 lambs av 52 at \$4.00.

Roe Com. Co. sold Mich. Beef Co. 13 lambs av 75 at \$7.00, 1 do av 90 at \$6.00.

Haley & McMullen sold Newton Beq. Co. 91 lambs av 67 at \$6.50, 5 do av 42 at \$4.50.

Spicer & Reason to T. Barlage 3 sheep av 120 at \$8.25; 10 lambs av 63 at \$7.00, 5 at \$4.50.

## Sheep and Lambs.

Receipts, 588. Market 25c higher than last week; one extra good load brought \$7.40. Best lambs, \$7.40; fair to good lambs, \$6.50@7.00; light to common lambs, \$4.50@5.00; vearlings, \$5.00; fair to good sheep, \$3.25@3.75; culls and common, \$1.50@2.50.

mon, \$1.50@2.50.

Bishop, B. & H. sold Hammond, S. & Co. 2 cows av 905 at \$3.00, 1 bull at \$1.400, at \$4.25, 1 do av 910 at \$3.75, 1 do av 1,020 at \$4.00; to Mich. Beef Co. 17 butchers av 840 at \$5.00, 1 steer av 950 at \$3.55, 10 heifers av 753 at \$4.50, 4 do av 655 at \$3.50, 1 do av 680 at \$3.50; to J. Bresnahan 7 stockers av 740 at \$4.00; to Sunivan P. Co. 2 cows av 985 at \$4.25, 5 do av 950 at \$3.75, 4 butchers av 815 at \$4.00, 2 cows av 1,090 at \$3.25, 2 do av 1,025 at \$3.00; 1 do av 1,170 at \$4.00; 1 do av 1,170 at \$4.00; 1 do av 1,170 at \$4.00; 1 do av 1,020 at \$2.00, 4 butchers av 750 at \$4.00, 6 cows av 957 at \$3.90; to J. Scheuer 1 cow av 1,000 at \$2.50, 2 do av which is something uncommon. The past

Receipts this week, 1,417; last week, 1,170. Market 25c lower than on Thursday. Best, \$8@8.25; others, \$4@7.50. Milch cows and springers steady.

### Sheep and Lambs.

Receipts this week, 1,624; last week, 1,413. Market very dull at Thursday's decline. Common light lambs, 50@75c lower than at opening Thursday and not wanted. Best lambs, \$6; fair to good lambs, \$4.50@5; light to common lambs, \$3.50@4; yearlings, \$3.50@4; fair to good sheep, \$3@3.25; culls and common \$1.50@2.

### Hogs.

Receipts this week, 5,086; last week, 4,603. Market 5@10c higher than on Thursday. Range of prices: Light to good butchers, \$6.55@6.60; pigs, \$6.25@ good butchers, \$6.55@6.60; pigs, \$0.40 6.30; light yorkers, \$6.55@6.60; heavy, \$6.50

P. Co. 13 lambs av 65 at \$6.50, 5 do av 42
at \$4.50.

Spicer & Reason to T. Barlage 3 sheep
av 120 at \$3.25, 10 lambs av 63 at \$7.00,
29 do av 58 at \$4.40.
Roe Com. Co. to Mich. Beef Co. 11
cows av 1,060 at \$4.50; to Sullivan P. Co.
1 bull av 790 at \$4.00, 3 cows av 1,087 at
\$4.50, 22 cows av 950 at \$3.00.

G. Merritt sold Sullivan P bull av 1,170
at \$4.00, 22 cows av 910 at \$4.00.

Spicer & Reason sold Mich. Beef Co. 21
steers av 990 at \$5.00, 11 do av 1,362 at
\$5.50, 4 do av 777 at \$5.00, 2 cows av 920
at \$3.00, 2 do av 1,255 at \$4.00, 1 do av
1,000 at \$3.25, 2 do av 1,110 at \$4.00; to
Hammond, S. & Co. 1 do av 750 at \$3.00,
3 bulls av 900 at \$3.75.
Haley & McMullen sold Sullivan P. Co.
7 butchers av 726 at \$4.20, 6 cows av
1,035 at \$4.20, 11 helfers av 820 at \$4.75, 1 steer av 1,100 at \$5.55, 1 cow av 950 at
\$4.60.

Veal Calves.

Receipts, 306. Market 50c higher than last week. Best, \$8.50@9.00; others, \$4.50
@8.00; milch cows and springers, \$3.00
per head higher.

E. Allington sold Newton Beef Co. 8
av 135 at \$8.25.
Groff & Stein sold Broodloff 9 av 140
at \$8.75.

Haley & McMullen sold Newton Beef Co. 8
av 135 at \$8.25.
Groff & Stein sold Broodloff 9 av 140
at \$8.75.
Haley & McMullen sold Newton Beef Co. 8
av 135 at \$8.25.
Groff & Stein sold Broodloff 9 av 140
at \$8.75.
Haley & McMullen sold Newton Beef Co. 8
av 135 at \$8.25.
Groff & Stein sold Broodloff 9 av 140
at \$8.75.
Haley & McMullen sold Newton Beef Co. 8
av 135 at \$8.25.
Groff & Stein sold Broodloff 9 av 140
at \$8.75.
Haley & McMullen sold Newton Beef Co. 8
av 135 at \$8.25.
Groff & Stein sold Broodloff 9 av 140
at \$8.75.
Haley & McMullen sold Newton Beef Co. 8
av 136 at \$8.25.
Groff & Stein sold Broodloff 9 av 140
at \$8.75.
Haley & McMullen sold Newton Beef Co. 8
av 136 at \$8.25.
Groff & Stein sold Broodloff 9 av 140
at \$8.75.
Haley & McMullen sold Newton Beef Co. 8
av 136 at \$8.25.

av 135 at \$8.25.

Groff & Stein sold Broodloff 9 av 140
at \$8.75.
Haley & McMullen sold Newton Beef
Co. 10 av 180 at \$9.00, 1 av 150 at \$6.00;
at \$8.75; to D. Goose 3 av 240 at \$5.50, 5
av 145 at \$8.00.

Roe Com. Co. to Mich. Beef Co. 5 av
155 at \$8.25, 20 av 150 at \$8.50; to J.
Goose 20 av 230 at \$5.00; to Newton Beef
Co. 4 av 150 at \$8.50; to Newton Beef
Co. 4 av 150 at \$8.50, 7 av 135 at \$8.35, 4 av
145 at \$8.50, 7 av 135 at \$8.35, 4 av
145 at \$8.50, 5 av 160 at \$8.50.

Bishop, B. & H. sold Mich. Beef Co. 20 av 150 at \$8.50; to Sullivan P. Co. 4 av
155 at \$8.50, 5 av 150 at \$8.75; to G. Rattkowsky
2 av 160 at \$7.00; to N. Burnstine 10 av
142 at \$8.50, 12 av 155 at \$8.25, 2 av 205 at
\$7.50, 4 av 155 at \$9.00; to Parker, W. &
Co. 4 av 155 at \$9.00, 5 av 165 at \$9.00; to Hammond, S. & Co. 2 av 140 at \$9.00;
6 av 160 at \$6.00, 5 av 165 at \$9.00; to Hammond, S. & Co. 2 av 140 at \$8.00;
14 av 150 at \$9.00.

E. Kendall sold Burnstine 14 av 145 at
\$8.50.

Sheen and Lambs.

is reported that the lamb "crop" will average 90 per cent. Word comes from Montana that sheep, as well as cattle, came through the winter in much better shape than was expected last autmun, but feed is going to be scarce on account of the large amount of feeding that had to be done the past winter, and farmers will be able to get high prices for their hay. The lambing season was ideal.

Colorado surpasses other parts of the country in producing a high grade of fattened lambs, and consignments from that state have been market-toppers recently in the Chicago market. The supply is now about exhausted, and slaughterers are depending largely on spring lambs, while fair numbers of grass flocks are showing up in the western markets.

(Continued from page 26).

tract gentian, fluid extract cinchona and fluid extract of capsicum and give heifer 2 oz. doses in one quart of water as a drench three times a day for a few days. If her bowels do not move satisfactorily give a pint of raw linseed oil night and morning until they move freely.

Chronic Garget.—I have a ten-year-old cow that seems to be troubled with garget, affecting the hind quarters of her bag every few days. I have greased her with lard but it falls to do much good. F. T. P., Galien, Mich.—Apply one part extract belladonna and eight parts olive oil to bruised udder twice a day. Your cow's udder is either infected or she may bruise hind quarters when lying down.

may bruise hind quarters when lying down.

Chronic Cough.—My cows have been coughing more or less since last winter and I would like to know what to give them. W. D. S., Romulus, Mich.—Give each cow 1 oz. powdered licorice at a dose in feed twice a day.

Mange.—I have a fox terrier pup that is troubled with a breaking out on his loins and lower part of body. The hair pulls out, the skin is red and he scratches almost continually. W. W., Copemish, Mich.—Apply one part Chinosol to 200 parts water to sore parts of skin twice a day and if he does not discontinue the scratching, apply the medicine twice as a active as I have prescribed. Give two drops Fowler's solution at a dose in feed three times a day.

Leaking Navel.—I have a colt 16 days old that leaks from navel and I would like to know how to treat it. J. J., Marlette, Mich.—It is possible that some surgical work should be done on navel, such as stitching opening or applying a clamp; however, this leaking is generally stopped by dusting on equal parts powdered alum and tannic acid several times a day and if it leaks blood, apply Monsell's solution of iron.

Inflamed Eyes—Eczema.—I have a mare

Inflamed Eyes—Eczema.—I have a mare that has been troubled with sore eyes for some time. They discharge and a film appears to be covering eye ball; this same mare itches and is inclined to rub herself. F. J. Y., Brown City, Mich.—Dissolve one grain nitrate silver in 1 oz. water and apply to eyes once a day, also apply calomel to eyes once a day. Also give 1 dr. Fowler's solution at a dose in feed or water three times a day and apply one part coal tar disinfectant and 50 parts water to surface of body once a day.

day.
Surfeit.—One of our horses is troubled Surfeit.—One of our horses is troubled with small bunches appearing on different parts of body; they must itch for the horse rubs until they are made sore. O. R. D., Ypsilanti, Mich.—Give 1 oz. bicarbonate soda at a dose in feed two or three times a day and apply one part bichloride of mercury and 1,000 parts water to surface of body once or twice a day. Feed less grain and more grass.

Bruised Hip—Abscess.—I have a Jersey cow that has a large bunch on lower part of hip that is quite hard, which seems to cause considerable stiffness. Another smaller bunch is commencing on opposite

smaller bunch is commencing on opposite MEXICO LAND CO. 1627 Williamson Bldg.

THE MICHIGAN FARMER.

\$52 at \$3.00; to T. Regan 5 steers av ten days have been so favorable that corn has grown very rapidly. A consideration of clover hay was cut last week, which was about ten days early as the corn has grown very rapidly. A consideration of clover hay was cut last week, which was about ten days early as the corn has grown very rapidly. A consideration of clover hay was cut last week, which was about ten days early as the corn has grown very rapidly. A consideration of clover hay was cut last week, which was about ten days early as the corn has grown very rapidly. A consideration has week, which was about ten days early as a consideration has grown very rapidly. A consideration has grown very rapidly. A consideration has grown very rapidly. A consideration has week, which was about ten days early set week, which was about ten days early to keep the sore part red iddide of mercury and eight week, which was about ten days early grown of a part of bedden the parts cerate of cantariotic parts week, which was about ten days early to keep the sore parts be party to keep the sore parts be party to keep the sore parts be party to keep th teemed as an anthelmintic, stimulant and hemostatic, but cuts little figure in neu-tralizing the gas in stomach and bowels; therefore, other remedies give better re-



sent prepaid for 200 HAROLD SOMERS 150 De Kalb Ave. Brooklyn, N. Y.

Farm Wanted in exchange for stock of merchandise in hust-ling city of 10,000 population in Western Michigan. Address Box No. 5, MICHIGAN FARMER, Detroit.

## FARMS AND FARM LANDS FOR SALE OR EXCHANGE

Farm or Business Wanted—Will pay cash scription. M. F. Box 948 Cherry Valley, Illinois.

IDEAL LOCATION Exceptional mar. from University of Michigan, 1 mile from city street cars and Detroit troley, 200-Acre Choice Dairy and Fruit Farm; will sell whole or in parts, also stock. L. E. BUELL, Ann Arbor, Michigan.

FREE Literature will be sent to any one interested in the wonderful Sacramento Valley, the richest valley in the world. Unlimited opportunities. Thousands of acres available at right prices. The place for the man wanting a home in the finest climate on earth. No lands for sale; organized to give reliable information. Sacramento Valley Development Association, SACRAMENTO,

### A FEW SPECIAL BARGAINS AGRICULTURAL SELECTED MEXICO

UNLIMITED OPPORTUNITIES FOR OUR AMERICAN FARMERS



## THE MICHIGAN FARMER.

TWIG BLIGHT ON FRUIT TREES.

Reports show serious outbreaks of twig-blight upon apple, pear and quince trees in all parts of central Michigan, and the disease has also been noticed to a less extent in other parts of the state. It is generally first noticed at the ends of the branches where the new leaves suddenly become brown and dry, and the branches themselves die.

Great injury is often done to pear, quince and young apple trees, and whenever it is noticed that the leaves are discoloring the twigs or branches should be cut off several inches below where the and the delay of a few hours may allow mixture. the germs to work down into the larger branches and even into the trunk of the METHODS IN FRUIT GROWING PRACtrees, when an attempt to save them may be useless, or at any rate will seriously injure the trees.

Twig-blight seldom does much harm to old apple trees, being generally confined to the new growth, but this year it is unusually severe and the large orchard trees have the appearance of being burned with fire, the ends of most of the branches having been attacked. When only a few branches have blighted, and especially on the smaller trees, it will be well to cut them out, but when scattered all over the trees this is seldom worth while, although if it is found to be extending back into the older branches the saw should at once be used, as the infected portion will surely die and the disease may spread and do much harm. If the cut is made below where the germs have spread further injury will be stop-

The disease is of a bacterial nature and its prevalence this year is because of the rank, succulent leaves, whose open structure allows the germs to enter. Spraying has no effect.

Agri. College.

L. R. TAFT.

### PEACH BROWN ROT.

During the past three years the control of the brown rot of the peach has been worked out in a satisfactory manner by the Department of Agriculture through the utilization of the self-boiled lime-The increased number of sulphur spray. spraying demonstrations, particularly in co-operation with the Bureau of Entomology, and with the combined self-boiled lime-sulphur and arsenate of lead have enabled the Bureau of Plant Industry to bring this matter still more prominently before the peach orchardists of the humid parts of the United States where this disease plays such havoc in average seasons. spraying of the peach covers not only the brown rot, but the black rot or peach scab and plum curculio, which makes the fruit wormy. The three great summer pests of this fruit have been brought under control by spraying.

### OUTLOOK FOR FRUIT IN KANSAS NOT LARGE.

The compilation of estimates from the state crop reporters of Kansas shows the fruit prospects for that state to be below the estimates for 1910 and above those for 1909 for the larger fruits, while the smaller kinds are put above last year's and below the yield of 1909. Following are the figures for the month of June for the three years mentioned:

1911.	1910.	1909.
Apples33	57	21
Pears27	31	8
Peaches10	50	3
Plums36	51	16
Cherries63	21	26
Grapes69	60	58
Strawberries37	40	45
Raspberries46	39	50
Blackberies54	51	61

## TROUBLESOME TOMATO DISEASES.

in the work of the Virginia station retwo diseases were giving trouble. One, catch crops in the young orchard, and the "eptoria" blight, attacks only the supplement with ashes or potash, if needleaves, and first appears on the lower ed. Sow these after the orchard has been leaves, killing them back. The other, the cultivated until mid-summer. He does growers predict that the shipment of apstems, and fruit, causing the whole plant chard, but does advise giving thorough amount to about 400 cars. to look as though it were killed by frost. cultivation. On gravelly or thin soils, This is apparently the same disease that lacking humus, he might use some stable ahead should nothing intervene between causes "late blight" of potatoes.

the tomato growers regarding practical tivation and cover crops. He would not means for controlling the blight and rot. give deep cultivation in old orchards but Since the diseases are believed to be spread use the cutaway harrow, and feed either from spores produced upon the leaves of with commercial fertilizers, manure, or affected vines, it is advisable to burn in catch crops, according to circumstances, the fall the dead tomato vines.

treatment spray mixtures. Bordeaux mixture (stan- Sometimes it is well to feed down an ordard 4:5:50 formula) has uniformly prov- chard with sheep or hogs. He prunes the en a successful fungicide for the control orchard in early spring before the leaves of these two injurious tomato diseases. start, and sprays two or three times in Three applications will suffice in an ordinary season to control the diseases, and sprayer. This throws a fine spray, and not more than five are necessary in an spraying with the wind one often throws excessively wet season. lime-sulphur at a dilution of one part to He thinks the results of spraying with 33 of water, or even to 50 parts of water, lime and sulphur are just as good as appears to act variably. However, from with Bordeaux mixture. the work of the station, commercial limediscoloration shows. There should be no sulphur was not nearly as efficient as a pruning and spraying make the orchard delay as the disease spreads in the sap fungicide on tomato disease as Bordeaux as profitable, and as sure a source of in-

## TICED IN NEW YORK.

For those who do not know about our fruit industry, I will say that the larger part of northwestern New York, and especially a wide strip of land along the southern shore of lake Ontario, from Oswego to Buffalo, is mostly used for orcharding. The soil was once the lake bottom, and the climate is so tempered by the lake that early and late frosts do not injure the fruit. Peaches are grown to a considerable extent in the vicinity of the large lakes in Central New York, and grapes are largely grown in the southeastern part, in Chautauqua county, while berries and small orchard fruits are successfully grown for commercial purposes in the Hudson river valley, between New York and Albany.

One very successful apple grower in western New York, who has studied thoroughly all phases of the subject of apple lecturer at farmers' institutes, thinks the fall, as clover, rye, or vetch. low lands are not so desirable, because run up and down the hill, and should be sixty feet apart, and three feet deep. Do not fear that the roots of the trees will fill up the drains. The best preparation of the soil for an orchard is to grow a clover sod on it, and use manure as a fertilizer, if necessary. Plow under this clover sod and pulverize as finely as for fifteen cents per quart. a garden. Lay out the ground so the trees will be in rows about forty feet apart each way. As one is planning for 100 years or longer, the best trees are none too good for him, so he goes to a him to let him select his own trees from trees taking only those that are of the freshly dug, and the tops pruned back to four or five feet, with a slanting cut, and shipped to cities. and the roots pruned to one or two feet long, according to the size of the tree. ends are cut off, this pruning is essential.

Large enough holes are dug to give ample room for the roots, and are so placed that the trees in the second row will come half way between those in the first, or in a diagonal form. In New York he advises spring planting. As trees bear in less time when budded these trees are budded instead of being grafted. Where he is sure about the variety, he selects buds from his neighbors' trees, and buds these trees he has planted in the spring, when the weather is warm, using three or four buds in a stock. In western New are best, and these stocks should be bud- means of the ordinary oriental. ded or top-worked with well-tried varieties, as Rhode Island Greenings, Northern normal crop this season according to Spy, Golden Russet, and if you are sat- early reports, due not to the yield of old isfied to grow an apple that is not of the trees but to the additional acreage that

highest quality, the Baldwin apple. Our readers will, no doubt, be interested are rubbed off the following spring. He pared with the yield of a year ago. would not object to growing cultivated garding the complaint of tomato growers crops of vegetables for the first two or of losses accruing to their crops from three years in the orchard, if it was well diseases. Study revealed the fact that fed, but his plan is to grow clover, and "Phytophthora" blight, attacks leaves, not advise using fillers in the apple or- ples from their section this season will manure to bring it into condition to grow now and harvest.

The station has issued instructions to clover, but his main dependence are culwhichever best serves his purpose. Un-For dependable results, however, no less the soil is rich in humus, commercial has approached the use of fertilizers are of little use in an orchard. spring or early summer, with a power Commercial a shower over two or three rows of trees.

When rightly done, feeding, cultivation, come, as dairy farming, and my investigation, made in both kinds of farming, show that both can be made to pay well In western New York I found apple orchards of 10 acres that were returning the owner an average yearly income in marketable apples, of \$2,500. These were on farms of 50 to 100 acres, and the byproducts of these farms, as evaporated apples, small fruits and vegetables, paid so much of the expenses that more than one-half of this amount was net profit.

Pears thrive well in New York, but are less extensively grown because of injury from pear blight, for which no remedy has been found but cutting off the diseased wood. There are some profitable orchards in western New York, but the growers give the orchards good culture, and watch the trees closely for the first appearance of blight. Bartlett is the main variety grown, and next in value are Anjou, Seckel, and Bosc

In the peach belt along the lakes, the Elberta is the great market variety, but The Crawfords are also largely grown. most successful growers practice thorgrowing, and is himself a specialist, and ough cultivation of the orchards in early authority on the subject, and is also a summer, and then sow cover crops in the

In the peach belt, Japan plums and they are harder to drain. The soil must sweet cherries usually thrive well, and be artificially, if not naturally drained, sour cherries usually do well anywhere to obtain good results. The drains should that apples are grown. One of the best investments in New York is an orchard of sour cherries, because they come into bearing soon, and the fruit is in good demand in local markets. On a farm near the writer and in which he is interested, Montmorency cherries have been in demand in village market at twelve to

European plum trees are not long lived in New York. They usually grow and bear well for ten or fifteen years, then the trees die.

American plums of the Wild Goose type nurseryman and makes a bargain with are perfectly hardy here. Perhaps there is no state so well supplied with homehis nursery. He then goes over a row of grown berries. Nearly every village is supplied with strawberries, raspberries, right size, and that are straight and and blackberries, grown by local growers, thrifty. These are planted when they are and in western and southwestern New York, they are grown in large quantities,

The narrow row, or hedge row system is the most popular with strawberry As new roots start at once where the growers. A few growers have obtained, as reported, 10,000 quarts per acre with the hill system, but this requires very thorough work, and at the right time. New York's great advantage is her own local markets. Small fruits are quickly taken by these, and there is seldom a surplus.

New York. W. H. JENKINS.

## APPLE MARKET NOTES.

The United States are finding a limited market for apples in China; but the price at which they can be laid down in that York, Northern Spy or Greening stocks country is so large as to be beyond the

is in bearing this season. Old trees prom-All but the strongest bud on each stock ise about 50 per cent of a crop as com-

Tasmania will try the American market with a cargo of her apples. The vesse bearing the load will arrive in New York the first of July. Should the venture prove successful it will be followed with other consignments.

One New Mexico association of apple

Nova Scotia sees a good crop of apples

Please mention the Michigan Farmer when writing to advertisers.

### THOROUGH FERTILIZING.

The most eminent authorities in the United States on this subject agree that the farmers will be forced to use lime and fertilizers if the fertility of the soil is to be increased and also solve that very important problem of "how to secure a good stand of clover." The Empire Broadcast Lime and Fertilizer Sower, made by the American Seeding-Machine Co., Incorporated, Richmond, Ind., will sow granular lime and all commercial fertilizers in any amount required and the quantity sown is under absolute control of the operator. There is no guess work about the machine. It does the work Send to the manufacturers for a well. copy of their Empire Broadcast Fertilizer Sower catalogue, and if there is any special information you want, ask for it and they will be glad to furnish you with it. After you have read this catalogue, go to your local implement dealer and insist on seeing the Empire. You run no risk in buying an Empire, because it is strongly guaranteed and must do all that the manufacturers claim for it.



## Fastest Hay Press 21/2 Tons Per Hour

Greater capacity is guaranteed in all Spencer Presses. The guarantee with our Alligator Press says "22 tons in 16 hours or no pay." Large feed capacity—smooth and compact bales, uniform in size. Load full weight into cars. All Spencer Presses are biggest money makers because they give greatest capacity at smallest operating and repeir cost. Write today for Free Illustrated catalog E. E. describing full line.

J. A. SPENCER 104 William St., Dwight, III.



# THE LARGEST AND BEST LINE OF

MACHINERY in America. We have been making it for over 20 years. Do not buy until you see our new Illustrated Catalogue No. M. Send for it now. It is FREE.

Austin Manufacturing Co., Chicago





## THE CLIPPER

There are three things that destroy your lawns, Dandelions, Buck Plantain and Crab Grass. In one season the Clipper will drive them all out. CLIPPER LAWN MOWER CO. DIXON, ILLINOIS.



## Don't Trust Children Beyond Their Strength.

like everything else some features of it are sadly overdone.

the child implicitly, taking its word for everything and letting it get the impression that you believe aboslutely everything it says. In one case out of one million it might work out all right, but in the other 999,999 such a procedure would be fatal. For, as a matter of fact, the average child can not be trusted until truth and integrity have been hammered into it by painful experiences.

Now please do not assume at once that I believe all children are vicious, Nothing of the sort, I simply believe they are happy little animals without any knowledge of good or evil as such until we teach it to them. They won't like to be punished and they do like to do every-thing their own way. If they can do as they want, and escape a punishment by telling a wrong story they can't see the least reason in the world why they should tell the truth about it, and until they reach years of discretion and are taught to see the beauty of truth and right they mother, a casual remark about the hour are going to continue to prevaricate so long as it will get them freedom in action or freedom from punishment. And so far as it goes their logic is all right. They take these precautions. reason according to their childish understanding, and it becomes the hard task of the parents to teach them that the only true happiness comes not from freedom from care, but from the consciousness of doing right, no matter what the consequences. Until the child learns that lesson so thoroughly that it is a part of himself, he should not be left "on his honor," as we so often hear. Nor should the parent take the child's word for everything without quietly investigating to see what is the right of the matter.

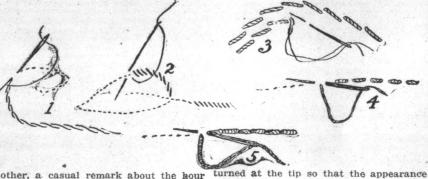
It is because parents believe too much that we hear so often of girls and boys going wrong. A girl asks to stay all night with her friend, for instance, and home of a third friend to study, but incent theaters or dance halls, flirtations thing is all right. with strange men and boys, perhaps a

HERE is much in the new child visit to a wineroom or a "joy ride" that study that is undoubtedly of great allures them. If in the country there are benefit to mother and child, but long drives over country roads with men and boys who would never be permitted Take that idea, for instance, of trusting filled with the idea that she must never appear to doubt her daughter's word, never takes the least pains to inform herself what her child does on the nights when she stays with her chum.

out seeming to be suspicious. A reference ing a leaf or petal where there are two

work of certain kinds, like the Bulgarian embroidery.

Stem stitch, seen in figure two, is a wider outline than the Kensington, and is utilized where wider stems are needed, or for edging leaves, petals, etc., with something a little heavier than the Kensington outline, and yet not so decided as in their father's home. And the mother, the long and short stitch. It is in reality much like overcasting, but must be on a slant, and that slant must conform to the figure itself. The stitches must be made very even, both edges quite smooth, and they must cross the stamped outline on It would be so easy to do it, too, with- the same slant throughout. Thus, in makto the visit when she sees the chum's sides to consider, the work must be



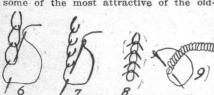
the girls retired, these might be made of both sides will be alike. without in the least seeming suspicious of Yet how many mothers fail to

"I put my children on their honor," how many a mother proudly declares. It right of the fabric these two threads are sounds well, but it is so hard for the children, because the "honor" is so seldom there for them to rely upon. Not that they mean to do wrong, but they are trusted long before they are old enough to realize the consequences of their acts. Their ideals are only childish ones, they could not possibly be the same as those of adults. To have a good time, that is the highest ideal of childhood and youth, and our young folks have not always the wisdom to decide what sort of good time is legitimate. It is for the parents to guide them, not in a dictatorial spirit but so quietly that the boys and girls will permission is given. Then the friend tells think they are making the choice. Meanher mother that the two are going to the time, don't trust them beyond their strength to resist. Let them think you stead they go out for a lark. If they live are trusting them implicitly if you will, in the city or near a town it is the five- but satisfy yourself quietly that every-

DEBORAH.

## Outline Stitches, No. 4-By Mae Y. Mahaffy.

N outline stitch, as its name implies, is used to accentuate or in- sults. dicate the principal lines of a design, and may take one of various styles of stitches well adapted to such work. carrying out entire designs, and, of than solid work of most kinds. of the most attractive of the old-



8 ticular, are partial to designs in which outline is sometimes made with

though all too often with regrettable re-

Among the outline stitches none is so commonly used in modern work as this or forms, since there are a large number same Kensington outline, shown in figure one. It may be made in the hand or These outline stitches are practical for in hoops, and is very easily mastered, but floss. depends upon regularity for its beauty. course, much speedier of accomplishment Bring the needle up from the wrong side Indeed, at one end of the outline, or at the base of a petal or some point or curve of a figure; insert it again a short distance in advance of this point, directly on the stamped outline, and bring it half way back toward the starting point. Continue anus for the distance required, always keeping the thread to the right of the needle, and making the stitches of uni-form length. The surface of the stitch is fashioned work was done entirely in some fully twice as long as the underneath one of these forms, like the Kensington portion, and the outline is thus made or chain outlines. Sometimes a touch of double throughout. This is sometimes closely set lines gives the appearance of called crewel stitch, and gives rise to the solid work to a certain extent, but at name, crewel embroidery, in which a doumuch less trouble. The Chinese, in par- ble thread of twisted wool was used. The chain stitch predominates, both in out- thread always thrown to the left of the lines and in curved forms for solid ef- needle, but whichever plan is followed point, very close, in fact, and bring it fects. The chain stitch has lost much of it must be adhered to throughout the de- up on the outline a short distance in adits desirability in this country from the sign, except in such cases as might be fact that so many machine made articles divided nicely into right and left sides. are ornamented with it. Charmingly dis- Then the one form could be used on one tinctive is a delicately planned pattern side, with the other opposite, and thus quarter of an inch being usually a fau worked in the Kensington outline, but its fit into the pattern to good advantage. simplicity alone seems to bar it from There must be no mixing of the two general usage as an all-sufficient medium stitches in the same line. The stitch is loop is formed. The next stitch is startfor attractive work, every embroiderer commonly used for small stems, tendrils, ed just inside this loop. striving after more complicated effects, midribs, etc., as well as for outlining solid

Figure three shows the twisted outline

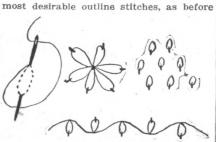
stitch. Two threads of floss are used in

the needle at the same time in this stitch.

After the needle is brought up to the twisted together tightly, and held thus while the next stitch is in progress. This permits of the use of two shades or colors, if desired. The stitches must follow the outline, the short stitch into the material being taken right across the outline, with the threads to the right. This from of outline is usually made where breadth is needed, and two or more rows are placed side by side. In this respect does not differ greatly from Bulgarian stitch, which is simply several rows of close-set Kensington outline stitches. While these stitches must be of uniform length ordinarily, they will necessarily have to be shortened a trifle on the inner rows at curves in order to conform to the shape of the design. One or more colors may make up these rows. A specially pretty effect is obtained by shading from

light to dark in one color. In figure four the back stitch is shown, a stitch familiar to most needleworkers, whether embroiderers or not. This stitch is very valuable for dainty outlines, where no definite line is necessary, but is even more useful in filling large spaces. The split stitch, shown at figure five, is made like it, except that the needle is taken back into the floss of the last stitch each time, so that a continuous outline is formed. This is not unlike chain stitch in appearance if made of rather heavy

Chain stitch, figure six, is one of the



stated, and is also splendid for padding buttonhole scallops, giving a quickly placed foundation which does not sink down readily. Bring the needle up on the outline; insert it again just beside this vance, this distance being gauged by the weight of the floss. Fine floss requires shorter stitches than coarse, about a length; when pulling the needle through keep the floss under its point, so that a

One pleasing method of using the chain

## HEART RIGHT

When He Quit Coffee.

Life Insurance Companies will not insure a man suffering from heart trouble. The reason is obvious.

This is a serious matter to the husband or father who is solicitous for the future of his dear ones. Often the heart trouble is caused by an unexpected thing and can be corrected if taken in time and properly treated. A man in Colorado writes:

"I was a great coffee drinker for many years, and was not aware of the injurious effects of the habit till I became a practical invalid, suffering from heart trouble, indigestion and nervousness to an extent that made me wretchedly miserable myself and a nuisance to those who witnessed my sufferings.

"I continued to drink coffee, however, not suspecting that it was the cause of my ill-health, till, on applying for life insurance I was rejected on account of the trouble with my heart. Then I became alarmed. I found that leaving off coffee helped me quickly, so I quit it altogether and having been attracted by the advertisements of Postum I began its

"The change in my condition was remarkable. All my ailments vanished. My digestion was completely restored, my nervousness disappeared, and, most important of all, my heart steadied down and became normal, and on a second examination I was accepted by the Life Insurance Co. Quitting coffee and using Postum worked the change." given by Postum Co., Battle Creek, Mich. "There's a reason," and it is explained

in the little book, "The Road to Well-

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



never hesitate to buy Pacific Pacific Mills trade mark Pacific Mills trade mark of the genuine protects them disappointing imitations. Yet the original and genuine Pacific Percales can be

10c and up the yard.

If your dealer doesn't carry Pacific Percales, write us for free samples and list of dealers who will

PACIFIC MILLS - BOSTON, MASS.





## Sanitary Dumbwaiter

Saves time, labor, money. Simple in design Small expense to install-Raised above floor & open, Small cost \$15 and up. For old or new HOUSE. FREE!

d card today for circular. Address Box 94B Vanfleet & Waffle, Evart, Michigan.



stitch in an ornamental border or finish tles on the stove, half filled with cold for narrow, lengthy spaces, like scrolls, water, put a clean board on the bottom is to place two rows of chain stitches, both of the boiler for cans to rest on and to rows together.

at figure seven. It differs from ordinary covers down again very tightly. ed slightly in advance of the loop rather than directly in it.

Wheat-ear stitch is also a chain stitch, either side, as in figure eight.

modification of chain stitch. A common chain stitch is first made, but afterwards the needle is inserted a little to the left, above the preceding link, not in it. It is particularly good for heavy outlines, being rich and elaborate looking.

Bird's-eye or picot stitch is useful for outlining small ovals radiating from a common center, like a daisy, where speedy results are desirable. The needle is brought up at the center of the group or base of an oval; then, as in a chain stitch, insert it just beside this point, and bring it up at the tip of the petal or opposite end of the oval, keeping the floss beneath the needle's point. Now take a short stitch right across the loop to hold it in position. Return to the center to begin the next oval. This is shown in figure 10. Lazy-daisy embroidery is made in this stitch, the floss sometimes being used double; that is, two strands in the needle at once, for it is never advisable to double one thread, as the twist then runs in opposite directions, causing The centers of the daisies are roughness. then filled in with a French knot, or a tiny solid disk. The stitch is also used in combination with cord, braid or outlining as a narrow band or border, or one teaspoon cinnamon, one cup of chopwhen scattered singly makes a good fill- ped raisins, flour to make thick batter. ing for large spaces.

### RECIPES.

We do not pay for recipes. If you wish a recipe ask for it, and in return contribute your own favorites.

## Cheap Cream Cake.

sweet milk, two cups of flour, one table-spoon of butter, two heaping teaspoons of baking powder, flavor to taste. Divide and filth. into three parts and bake in round shallow pans, in a quick oven.

## Cream for the Cake.

Beat one egg and a half cup of sugar flour, wet with a very little milk and rub smooth. Stir this mixture into a teacup of boiling milk, simmer until thick, flavor to taste and spread between layers of the cake.

## To Retain the Color of Strawberries.

If Mrs. L. M. P. will add one level teaspoonful of corn starch dissolved in a little cold water to each quart of strawberries three or four minutes before taking off, she can retain color and flavor. Once tried it will always be used, and if, as soon as sealed strawberries are laid on side and turned over every time you are near them the berries will not rise to the top. It works fairly well with pineapple, although not so well as with strawberries.—An Interested Reader.

## Sour Beans.

String the beans and break into inch lengths. Wash and cover with hot water, then boil until tender. Drain well through flour and a tablespoonful of vinegar with salt and pepper to season. Add the beans most flies. and let all cook together a few minutes. Use dressing according to amount of This is for two cups of cooked beans. beans.-R. R.

## Corn Starch Loaf Cake.

With a wooden spoon thoroughly cream three-fourths of a pound of butter. Add slowly two cups of sugar and, when well blended, one-half cup of sweet milk and one pound of corn starch sifted with two teaspoon of soda. Fold in the stiffly beaten whites of ten eggs and flavor to suit.

Recipe for Canning String Beans. In reply to Mrs. M. R., I will give my recipe for canning string beans and sweet corn. I have never canned any peas but do not see why they could not be canned the same way. Cut up string beans and put in quart or pint fruit jars, putting proper screens on an doors and calculated, as his wife approvingly re- when at last they emerged from the cover with cold water and screw covers windows. Put the screens on now, do not calculated, as his wife approvingly re- when at last they emerged from the cover with cold water and screw covers windows. Put the wash holler or large ket- wait until the house is full of files. down. Put the wash boiler or large ket- wait until the house is full of flies.

running the same way, about a quarter keep them from cracking. Put the cans of an inch apart, a little more if the floss in the boiler with a board on top of is heavy. Take floss of the same or a them weighted down with a stone to keep different shade and catch back and forth cans from falling over while boiling. Boil from one chain to that diagonally oppo- three hours, pint cans two hours. My site throughout the space, lacing the two boiler will cook ten quarts at a time. Care must be taken to keep water boil-Open chain or cable stitch is pictured ing. When cans are taken out screw chain stitch in that the needle is insert- rubbers may have to be put on but do not take covers off to do this, press rubbers under covers quickly. For sweet corn, cut corn from cob and press down but with slanting stitches thrown out at very tightly on quart jars. This is the whole secret, press down so tightly in Rope stitch, figure nine, is another the cans that the milk flows out and runs over even. Too tender corn will not keep as well as when it is older. Boil and can the same as string beans. I always have good luck with this recipe, but great care must be taken and work done thoroughly. Then you will be rewarded.

### Graham Bread.

One pint of buttermilk, two level teaspoonfuls of soda, one-half cup of brown sugar, one cup of white flour and two and one-half cups of graham.—A. E. L. Becipes for graham bread were also dospoonfuls of soda, one-half cup of brown nated by Mrs. E. S. G., Mrs. L. J. S., Mrs. B. K., Mrs. D. and N. A. G.

Pickled Cherries.

In the country where the late meaty cherries are plentiful they may be made to take the place of olives. To a pint can nearly fun of cherries add salted water and seal. Use a heaping tablespoonful of salt to each pint can. Spiced cherries for meats may be made from common canned cherries by cooking and adding spices.-Mrs. J. J. O'C.

### Fruit Bars.

One cup butter, one and a half cups sugar, three eggs, one cup sweet milk. one cup molasses, two teaspoons soda, Pour in butter tins, crease and bake in hot oven. Cut when cold.

### "CATECHISM OF THE FLY."

The following "Catechism of the Fly," sent out by the Detroit Board of Health, is worth committing to memory. One cup of sugar, one egg, one cup pecially good is the part pertaining to stables.

- Where is the fly born? In manure
- 2. Where does the fly live? In every kind of filth.
- Is anything too filthy for the fly to
- 4. (a) Where does he go when he together. Add a quarter of a cup of leaves the surface closet and the manure pile and the spittoon? Into the kitchen
  - and dining-room. (b) What does he do there? He walks He on the bread, fruit and vegetables. wipes his feet on the butter and bathes
  - in the milk. 5. Does the fly visit the patient sick with typhoid fever, consumption and cholera infantum? He does-and he may call on you next.
  - 6. Is the fly dangerous? He is man's worst pest, and more dangerous than wild beasts or rattlesnakes.
  - 7. What disease does the fly carry? He carries typhoid fever, consumption and summer complaint. How? On his wings and hairy feet. What is his correct name? Typhoid fly.
  - 8. Did he ever kill anyone? He killed more American soldiers during the Spanish-American war than did the bullets of the Spaniards.
- 9. Where are the greatest number of spoonful of butter, one teaspoonful of cases of typhoid fever, consumption and summer complaint? Where there are the
  - 10. Where are the most flies? Where there is the most filth.
  - 11. Why should we kill the fly? Behe may kill us.
  - 12. When shall we kill the fly? Kill him before he gets wings-kill him when of Francis Drake. he is a maggot in the manure pile-kill him while he is in the egg state.
- 13. How? Keep the stable dry and clean and don't allow any manure to stay an' we're goin' to camp out." on the premises longer than one week. teaspoonfuls of cream of tartar and one Have all other filth and trash accumulating on your premises removed or burned at least once a week.

covered in your alley or back yards. Keep death, and that he was not prepared. the loose manure in covered boxes and Next morning, however, when they all have it carried away at least once a week.

## HOME AND YOU

FAIR PLAY.

BY MRS. ANNA STERNS. Laddie came home from the ball game, One sultry evening last June, With his sunny face all clouded

And his light heart out of tune.

Now Laddie is a very good loser, And usually, just the same, His merry whistle or song rings out If he has lost or has won the game. To my questioning look he answered, "That we were beaten I do not care, But, mother, 'twas how they did it, For those fellows didn't play fair."

Then he paused, his dark eyes flashing, While my own filled quickly with tears, For I saw, in a far-reaching vision, What might come to my lad with the

I thought of the sorrow, the heartache, Of the wrongs oft past repair That come to us all in the game of life Because someone doesn't "play fair;"

Then I comforted outraged Laddie, And wished that we all, everywhere, Might give willing heed to the umpire, Abide by the rules and play fair.

### VACATION THAT WAS NOT A VA-CATION.

BY W. J. GRAND.

"It don't seem as if we'd really got round to it, does it, father?" asked Mrs. Pike.

Eli and his wife sat together on the washing-bench outside the back door, waiting for the milk to cool before it be strained. She was a large, comfortable woman, with an unlined face, and smooth, fine auburn hair; he was spare and somewhat bent, with curly, iron-gray locks, growing thin, and crow's about his deep-set, gray eyes. He had been smoking the pipe of twilight contentment, but now he laid it on the bench beside him.

"No; it don't seem as if 'twas goin' to happen," he owned. "It looked pretty dark to me all last week. It's a good deal of an undertakin', come to think it

all over. I dunno's I care about goin'.' "Why, father! After you've thought about it so many years, an' Peter's got the tents strapped up an' all! You must be crazy!"

"Well," said the farmer, gently, as he arose and went to carry the milk pails into the pantry, calling coaxingly, as he did so, "Kitty! Kitty! You had your milk. Don't joggle, now!"

Mrs. Pike came ponderously to her feet and followed, with the heavy, swaying motion of one grown fleshy and rheumatic. She was not in the least concerned about Eli's change of mood. He was a gentle soul and she had always been able to guide him in paths of her own choosing. Moreover, the present undertaking was one involving his own good fortune, and she meant to tolerate no foolish scruples which might interfere with its result, for Eli, though he had lived his life within easy driving distance of the ocean, had never seen it, and ever since his boyhood he had cherished one darling plan-some day he would go to the shore and camp out there for a week. This, in his starved imagination, was like a dream of the Acropolis to an artist stricken blind, or as mountain outlines to the dweller in a lonely plain. But the years had flitted past and the dream never seemed nearer completion. There was always planting, having and harvesting to be considered; and, although he was fairly prosperous, excursions were foreign to his simple habit of life. But at last his wife had stepped into the van and organized an expedition with all the valor

"Now, don't you say one word, father," she had said. "We're goin' down to the beach, Peter, an' Hattie, an' you an' me,

For days before the date of the excursion Eli had been solemn and tremu-Do not allow manure heaps to lie un- with an undefined motion that was like arose and took their early breakfast, preparatory to starting at five, he showed Protect your houses against flies by no signs of indecision, and even went

at last begun to see his way clear, and he looked well satisfied with his daughter Hattie, as Peter, her husband, drove into the yard in a wagon cheerfully suggestive wandering life. The tents and a small hair-trunk were stored in the back. and the horse's pail swung below.

"Well, father," called Hattie, her rosy face like a flower under the large shade hat she had trimmed for the occasion, "guess we're goin' to have a good day!"

He nodded from the window where he was patiently holding his head high and undergoing strangulation while his wife, breathing huskily with haste and importance, put on his necktie.

At length the two teams were ready and Eli mounted to his place, where he looked very slender beside his towering mate. The hired man stood leaning on the pump, chewing a bit of straw, and the cats rubbed about his legs with tails like banners

"Well, good-by, Luke," Mrs. Pike called over her shoulder, and Eli gave the man a solemn nod, gathered up the reins and drove out of the yard. Just outside of the gate he pulled up.

"Whoa," he called, and Luke lounged forward. "Don't forget them cats! Git up, Doll!" And this time they were gone.

For the first ten miles of the way. familiar in being the road to market, Eli was placidly cheerful. The sense that he was going to do some strange deed, to step into an unknown country, dropped away from him, and he chatted, in his intermittent, serious fashion, of the crops and the lay of the land.

"Pretty bad job up along here, ain't it father?" called Peter, as they passed a sterile pasture where two plodding men were redeeming the soil from its rocky

"There's a good deal o' pasture in some places, that ain't fit for nothin' but to hold the world together," returned Eli, and then he was silent, his eyes fixed on Doll's eloquent ears, his mouth working a little.

"We've prospered, ain't we. Maria?" he said, at last; and his wife, unconsciously following his thoughts, in the manner of those who have lived long together, stroked her black silk "visite" and answered with a well satisfied nod: "I guess we ain't got no cause to complain.'

The roadside was parched under an August sun; tansy was dust covered, and ferns had grown ragged and gray. jogging horses left behind their lazy feet

a suffocating cloud. "My land!" cried Mrs. Pike, "if that ain't golden-rod! I do b'lieve it comes earlier every year, or else the seasons are changing. See them elderberries;

ain't they purple! You jest remember that bush, an' when we go back we'll fill some pails. I dunno when I've made elderberry wine," Like her husband, she was vaguely

excited; she began to feel as if life would be all holidays. At noon they stopped under the shadow of an elm tree, which, from its foothold in a field, completely arched the road; and there they ate a lunch of pie and doughnuts, while the horses, freed from their headstalls, placidly munched a generous feed of oats near by.

At the lunch Eli ate sparingly and with a preoccupied and solemn look.

"Look, father," exclaimed his

"you ain't eat no more'n a bird!"
"I guess I'll go over to that well," said more'n I eat, if I ain't workin'." But tin pail brimming with cool, clear water, his face expressed disapprobation, and he smacked his lipe scornfully.

"Terrible flat water!" he exclaimed. "Tastes as if it had come out o' the cistern." But the others could find no fault with it, and Peter drained the pail. "Pretty good, I call it," he said, and Mrs. Pike expressed a like opinion.

But Eli still shook his head and ei lated, "Brackish, brackish!" as he began to put the bit in Doll's patient mouth. He was thinking, with a passion of loyalty, of the clear, ice-cold water at home which had never been shut out by a pump from the purifying airs of heaven, but lay where the splashing bucket and lous, as with joy; but now, on the eve of chain broke, every day, the image of moss the great event, he shrank back from it, and fern. His throat grew parched and and fern. His throat grew parched and dry with longing.

When they were within three miles of the sea it seemed to them that they could taste the saltness of the incoming breeze. The road was ankle deep in dust, the garden flowers were glaring in their beans and put in quart or pint fruit jars, putting proper screens on all doors and about his outdoor tasks with an alacrity brightness. It was a new world. And when at last they emerged from the

sand, and turned a corner, Mrs. Pike faced her husband in triumph.

"There, father!" she cried, "there 'tis." she said. But Eli's eyes were fixed on the dashboard in front of him. He looked pale.

"ain't you goin' to look? It's the sea!" "Yes, yes," said Eli, quietly; "bimeby. I'm goin' to put the horses up fust."

"Well, I never," said Mrs. Pike, and as they drew up on the sandy tract where ed into the yard just at the turning of the Peter had previously arranged a place day, when the fragrant smoke of many a for their tents, she added, almost fretfully, turning to Hattie, "I dunno what's come over your father. There's the water and he won't even cast his eyes at it."

some intuition of love, though not of

"Don't you bother him, ma," she said. "He'll make up his mind to it, pretty Here, let's lift out these little forget them cats." soon. things while they're unharnessin', and then they can get at the tents."

Mrs. Pike's mind was diverted by the exigencies of labor, and she said no more; but after the horses had been put up at a neighboring barn, and Peter, red faced with exertion, had superintended the tent her father's and led him away. "Come. pa." she said in a whisper: "let's you and to his thought. me climb over on them rocks."

Eli went; and when they had picked land where the water thundered below, and salt spray dashed up in mist to their feet, he turned and looked at the sea. He faced it as a soul might face Almighty Greatness, only to be stricken blind thereafter; for his eyes filled painfully with slow, hot tears. Hattie did not look at him, but after awhile she shouted in his ear, above the outcry of the surf: "Here, pa, take my handkerchief. I don't know how it is about you, but this spray gets in my eyes."

Eli took it obediently, but he did not speak; he only looked at the sea. The two sat there, chilled and quite content, until six o'clock, when Mrs. Pike came calling to them with dramatic shouts, emphasized by the waving of her ample apron. "Supper's ready! Peter's built a fire and I've made some tea!"

Then they slowly made their way back to the tents and sat down to the evening meal. Peter seemed content and Mrs. Pike was bustling and triumphant.

"Well, father, what think?" she asked, smiling exuberantly as she passed him his mug of tea. "Does it come up to what you expected?"

Eli turned upon her his mild, dazed

"I guess it does," he said, gently.

That night they sat upon the shore while the moon rose and laid in the water her majestic pathway of light. Eli was the last to leave the rocks, and he lay down on his hard couch in the tent without speaking.

"I wouldn't say much to father," said Hattie speaking to her mother as they parted for the night. "He feels it more'n

we do."
"Well, I suppose he is some tired," said Mrs. Pike, acquiescing, after a brief look of surprise. "It's a good deal of a jaunt, but I dunno but I feel paid a'ready. Should you take out your hairpins, Hat-

She slept soundly and vocally, but her husband did not close his eyes. He looked, though he could see nothing, through the opening of the tent, in the direction where lay the sea, solemnly clamorous, eternally responsive to some infinite whisper from without his world. The tension of the hour was almost more than he could bear; he longed for morning, in sharp suspense, with the faint hope that the light might bring relief. Just as the stars faded, and one luminous line penciled the east, he arose, smoothed his hair and stepped softly out upon the beach. There he saw two shadowy fig-their homes; but I knew that I could not ures, Peter and Hattie. She hurried for-stand that baby's kiss and feel her arms ward to meet him.

"You goin' to see the sun rise, too, father?" she asked. "I made Peter come. and out of my life. He's awful mad at bein' waked up."

Eli grasped her arm. "Hattie," he said, in a whisper, "don't you tell. I jest come out to see how 'twas here, before I I'm goin' home, I'm goin' now!"

go. I'm goin' home, I'm goin ach...
"Why, father," said Hattie; but she peered more closely into his face and her tone changed. "All right," she added "Peter'll go and harness up."
"No, I'm goin' to walk."

"But, father-"

Hattie turned and took her father's the fence there. Can he sit still?"

"I'll slip into the tent and put up some thing for your breakfast and luncheon,'

So Eli yielded; but before his wife ap peared he had turned his back on the "Why, father," said she, impatiently, sea, where the rose of dawn was fast As he jogged homeward, the unfolding. dusty roadsides bloomed with flowers of paradise, and the insects' dry chirp thrilled like the song of angels. He turncrackling fire curls cheerfully upward in promise of the evening meal.

"What's busted?" asked Luke, swinging down from his load of fodder corn

But Hattie understood her father, by ome intuition of love, though not of likeness.

"Don't you bother him, ma," she said.

"But Hattie understood her father, by and beginning to unharness Doll.

"Oh, nothin'," said Eli, leaping from the wagon as if twenty years had been taken from his bones. "I guess I'm too old for such jaunts. I hope you didn't

### DOWN AND OUT.

BY F. M. COMSTOCK.

"It is the life beautiful," I said. One of the men and both of the ladies looked raising, Hattie slipped her arm around at me with tentative surprise. Then the man, seeing I meant no harm, gave voice

"And what may that mean?" he asked. "All this," I answered, with a sweep their way over sand and pools to a head- of my hand taking in the two men and their wives and children, who ranged from six years down to a babe in arms.

> I had followed them on to the Belle Isle boat, and noticing something unusual about them-that they acted like married lovers, and that both the husbands and their wives looked after their children with adoring solicitude-I took a seat near them with a thought that it might be a case of the Sunday-go-to-meetingchristian-order; but as they kept it up for three full trips without a break in the evidence I followed them off the boat to chosen picnic grounds, when I introduced myself with words of hearty commenda-

"It is right for a man to love his wife," I continued, "and for a wife to love her husband, and for both of them to adore their children, and teach them the lessons of life with loving firmness.

"Sure," said one of the ladies.

"I'm sure," said the other lady, "it's the one thing that makes life worth the living." And at this the other man the And at this the other man, the quiet one, gave me his attention.

"You must be a preacher," he said.
"Not me," I answered him. "Just an old man-homeless," I explained to him.

At this the quiet man came up and gave me his hand. "Take a seat with us and make yourself at home. It is easy to see you love children."

"Are you indeed homeless?" asked one of the ladies, her voice expressing her sympathy, which found a hearty echo in the "Too bad," of her companion.

"Homeless and yet homesick," I answered her. "Yet I have a family I have loved beyond measure." I don't know why I talked so freely to them-just because, I guess; but I was led from one thing to another until I had told them enough of my story to make them very kind to me.

"They urged me to join them in their lunch and refused to accept the excuses I framed up for the occasion, for I had it in my mind that they might misunderstand my thought in making so free with In fact, they would not let me them. go, and the happiest hours I had spent since leaving home were spent in their company. Their children played around and with me, and one little girl that put me in mind of my Mateel at home threw her arms around my neck and kissed me. Oh, it was a beautiful afternoon!

We parted at last, but with the understanding that I was to call on them at around my neck again without unmanning me, and so I have let them pass on

I, that write this, am but telling the story of a man who was down and out. That he was without faults I do not deny, nor yet does he; but that the penalty he was paying for them was far beyond their deserts I know in spite of anything any human being might say to the contrary.

The art photographer was visiting the farm. "I want to make an exhaustive "I don't mean to break up your stayin' study of this particular bit of landscape," here, nor your mother's. Tell her how he said, "and would like to have your 'twas. I'm goin' to walk." hired man retain his present position on "For days at a time," said the farmer.



## Have You An Early-Rising Problem?

Is it hard to get "the help" out in the fields on time? Then, let . me solve it.

I'm Big Ben, "the big watch with a breakfast bell"—the truthtelling and reliable alarm clock.

I get you up. I never fail. You are always first in the field

if I am in the sleeping room. See me, today, at some good jeweler's. Hear me ring my break-

fast call. Learn why I keep watch-time.

\$2.50 is my price. When you know me you'll be glad you paid it.

"Plow deep while sluggards sleep," said old Ben Franklin.

"It's time for wise men to get up," say I, Big Ben, the reliable alarm clock.

## BIG BEN

Care of WESTERN CLOCK CO., La Salle, III. If your jeweler doesn't sell me l'Il me express paid on receipt of \$2.50



"Built for Business." Equipped with Coaster Brake \$27.55. (\$3.10 extra.)

Bioycle complete with solo kit and bell; frame freinforced seamless steel tubing; has extra long teel mud guards and all such standard equipment s 45-position handle bars, rubber grips, 3-spiral pring seat, "Beats All Puncture Proof" tires, Lefevre" or Imported Twin Roller chain; finest ickel and enamel finish. It's the easiest runing, most durable bicycle made; built to give eliable service. Guaranteed for L-I-F-E.

## DAYS FREE

We will EXPRESS this Bicycle PREPAID, subject to your examination and approval at your express co's office-ride it 30 days, and if then you are not satisfied with it or certain it is the integral or superior of any sold for \$50 we will give you back every cent of your money.

Send for "Money-Saving" Catalog, (Illus.)—Do it NOW.

F. F. RICK & CO., Manufacturers Dept. M 1,

Don't Fail to mention the Birch. are writing to advertisers.

Bluff Beach Farm, Mich., Feb. 2, 1911 Michigan State Telephone Co. Gentlemen: Detroit, Mich.

Bluff Beach Farm, Mich., Feb. 2, 1911
Michigan State Telephone Co.
Gentlemen: Detroit, Mich.

Being a member of one of the roadway companies in this neighborhood, I take pleasure in recommending that the farmers and rural communities avail themselves of the opportunity of building and maintaining their own telephone lines, and apply for connection with the Michigan State Telephone Company, as it has a great many advantages, both from a social and a financial standpoint.

In the first place, it is the cheapest way of keeping a telephone, and besides the farmers and their families can have the privilege of chatting together on their own circuit without taking the trouble of calling up central, and as every telephone is a long distance telephone, we can stay in our own home and call up anybody at any place where the great "Bell System" has a telephone.

I further wish to say that the Michigan State Telephone Co. is treating the connecting companies with all the courtesy that we could reasonably ask for. To farmers who wish to refer to me in regard to service, etc., I will gladly give any information that I can. Yours truly,

(Signed) J. YOUNGQUIST, President,

Sauble Telephone Co.

# DB ANDREWS Mineral Spring

ST. LOUIS, MICHIGAN

No need to go abroad. Here in Michigan is one of the most perfect alkaline springs in the world.

The sick come on stretchers, they drink and bathe and go away healed. The water benefits nerves, stomach, liver and kidneys. Gall stones, diabetes, Bright's disease and eczema are usually cured to stay cured.

Not a resort-not a sanitarium-just a quiet home in which to get well.

Bountiful and varied meals and nourishing, well-cooked, food. Light airy rooms and good beds.

Write for circular and rates. Tell us your ailment and we will let you know what our results have been in similar

We are glad to co-operate with your home physician and will be pleased to answer his inquiries.

DR. ANDREWS, Box B, St. Louis, Mich.

## SALESMEN WANTED

Trained Salesmen earn from \$1,200.00 to \$10,000.00 a year and expenses. Hundreds of good positions now open. No experience needed to get one of them. We will assist you to secure a position where you can get Practical Experience as a Salesman and earn a good salary while you are learning. Write today for full particulars, list of good positions we now have open and testimonials from hundreds of men recently placed in good positions.

Address Nearest Office, Dept. 205

National Salesmen's Training Association.

## **SELLING AGENTS** WANTED.

Good, live, high grade representatives wanted in all fruit growing sections in the United States to handle the

Bolton Orchard Heater

for the coming season. A liberal commission will be allowed. This heater is the pioneer in its line, is the cheapest and today stands without a peer. Address, with references,

THE FROST PREVENTION CO., Bank of Itlay Building, San Francisco, Cal.

WANTED FOR U. S. ARMY—Able-bodied, unmarried men, between the ages of B and 35; citizens of United States, of good character and temperate habits, who can speak, read and write the English language. For information apply to Recruiting Officer, 212 Griswold St., Detroit, Mich.: Heavenrich Block, Saginaw, Mich.; Corner Ist & Saginaw Sts., Flint, Mich.; 110 East Main St., Jackson, Mich.

Let Me Start You in Business! will furnish the advertising, matter and the plans want one sincere, earnest man in every town and waship, Farmers, Mechanics, Builders, Small siness man, anyone anxious to improve his cono ion. Address Commercial Democracy, Dept.D 30, Elyria, Ohi.

LEARN AUCTIONEERING At the Worlds School and Become Independent. Catalogue and complete information FREE. Write for it today. JONES NAT'L SCHOOL OF AUCTIONEERING, 2256 Washington Blv'd, Chicago, Ill. Summer term opens July 31.



YOUNG MEN WANTED to LEARN
YETERINARY profession. Catalogue
Free. GRAND RAPIDS VETERINARY
COLLEGE, Dep. 11 Grand Rapids; Mich.

WANTED-TRAVELING SALESMAN for Implement line, familiar with State of Michigan Address Box 22, Michigan Farmer. Detroit, Mich

## Why Not Use "Bell Service"

Costs less and offers greatest advantages to the farmer.

For particulars write

Michigan State Telephone Company

Mich. Detroit

Rural Line Dept.



"Queenie" Stan. J. Malicek, North Redwood. Minn.



"Evangeline," Gladys Houx, Marshall, Mo.







AND THE BOYS AND

**GIRLS WHO GOT THEM** 



"Sparkle," Eloise Sav-age, Watertown, S. D. "Bonnie," Amyle Kafer, Glidden, Ia. "Fritzie," Marie & Margie Parker, Williamsfield, Ill,



"Sonny," Elmer Hoth, Waukon, Ia.





"Billie," Hazel McMar-tin, DeSmet, S. D.

Notice we print the photographs, names and complete addresses of the whole 33 Ponies (count them) and the boys and girls who won them, which we wouldn't dare do if it wasn't true we give away real live Shetland Ponies and outfits. If you write these boys and girls (be sure to enclose a two-cent stamp for reply) they will tell you how lovely their ponies are, how easily they won them and how fairly we treated them. None of these boys or girls can compete for "Major Patsy" (which we are going to give to you or some other boy or girl as explained below) because we wouldn't want any one child to win two ponies and it gives you a much better chance to get him.





"Don," Oliver E. Olson, International Falls, Minn,

## With Complete Outfit Shown Below

If you want us to give you a pony and have your picture printed here next time riding him with these 33 other pony win ners, don't fail to send us your name and address today and we will tell you more about "MAJOR PATSY" and how to become a contestant for him. We can't send you a pony unless you send us your name and address. We have given away more ponies than any other publisher in the United States and we are going to give away a lot more. We want to give away enough ponies so that we can just completely cover a page this size with little pictures like these that you see around the edges of this page. If you haven't a Shetland Pony yet and want one, the sooner you send us your name and address, the better chance you will stand of having us give you "MAJOR PATSY" the very next pony we are going to give away to you or some other boy or girl.

King," Vic. J. Breitbach. Waupeton, Ia.

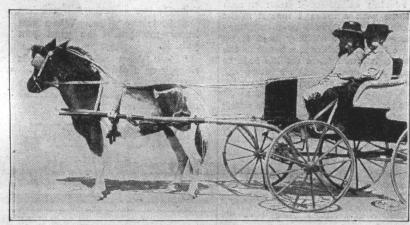




Mick," Marcella Con-ley, Ionia, Iowa.

## "Major Patsy

is a dandy three-year-old spotted pony, 43 inches high, and weighs about 350 pounds. He looks like the ponies you see with circuses and just exactly as pretty and cute and smart. We selected him at the famous Heyl Pony Farm, Washington, Ill., where there are hundreds of the finest kind of Shetland Ponies. He dearly loves children and is the dandiest chum you could possibly desire. He can haul a wagon-load of youngsters along at a merry clip. If you send us your name and get him everybody in town will envy you. And you would be the happiest child alive if "Major Patsy" was yours. Think of the fine times you can have taking your friends driving all around. Read this page through carefully and then send your name and address to us at once.



WOULDN'T YOU LIKE TO DRIVE TO SCHOOL IN THIS OUTFIT?

# The Outfit

And best of all we send free with "Major Patsy" the complete Pony Outfit as you see it in the picture. The pony-wagon is just the best we could buy for our purpose. We have given away so many that we know exactly what kind most boys and girls like. The handsome black harness with nickel trimmings looks just fine on "Major Patsy." No child, no matter how rich his parents may be, owns a more desirable pony outfit than this one which we are going to send free and pay all freight and express charges. This is surely the best chance you ever had to get a Shetland Pony, so if you haven't one and would like to have us give you this one send us your name and address right now.



















Daisy," Leta Hainline, Orient, Ia.



"Fairy," Lawrence Ulrich, Rosemount, Minn,

## 'Major Patsy" for you or some other child. "Brownie," Twylah Hart, R. 1, Sidney, O. "Teddy," George Cooper, St. Cloud, Minn. PERSUADE YOU THAT YOU



"Jack," Bernice Harvey, Creston, la.





# Don't let anyone persuade you that you cannot get "MAJOR PATSY." If you have been unsuccessful in other contests don't let that discourage you because our plan of conducting pony contests is different from others. We are publishers of The Farmer, Farmer's Wife and Poultry Herald. The Banker or Postmaster in your town undoubtedly knows of Webb Publishing Company, one of the largest publishing houses in the United States, so we can well afford to give away so many ponies. Our contests are very short and you or some other boy or girl will get "MAJOR PATSY" and have him to drive to school and everywhere. We never heard of one of these boys or girls to whom we gave ponies until they wrote us they wanted one, which shows you how fair and square our pony contests are and that no matter where the winner lives, "MAJOR PATSY" will be sent without one cent of cost

Our ponies are given away so quickly that you will stand a better chance to get this one if you sit right down and write us a letter or a postal eard or send the coupon opposite filled out with your name and address (either way will be ail right). The work we require you to do to become a contestant for "Major Parsy" is something that any boy or girl who could drive a pony can do, and any child who becomes a contestant will win a fine prize, even if they fail to win "Major Parsy" which is the best prize of all.

BE SURE TO ADDRESS YOUR POSTAL CARD OR ENVELOPE

\_\_\_\_\_Cut Out and Sign this Coupon or Copy on a Postal Card and Mail Today, \_\_\_\_\_ THE FARMER'S WIFE, 323 Webb Bldg., St. Paul, Minn.
Please send me Certificate of Entry, and pictures of "Ma

Please send me Certificate of Entry, and pictures of "Major Patsy" and tell me how to take care of Shetland Ponies and feed them. I haven't any Shetland Pony and want to own "Major Patsy." 

THE FARMERS WIFE

All contestants will surely get a prize of their own choosing from a prize of their own choosing from a list which we will send you. Besides the Pony Outfit and Twenty-five Grand Prizes we shall offer Gold Watches, Base Ball Outfits, Gold Bracelets, Fountain Pens, Hand Bass Flash Lights, Rifles, Shot Guns and dozens of other desirable prizes. If you become an enrolled contestant if this Pony Contest, you can't lose But don't let anyone persuade you that you can't win "Major Patsy' because you have the same chance as any other child.



















